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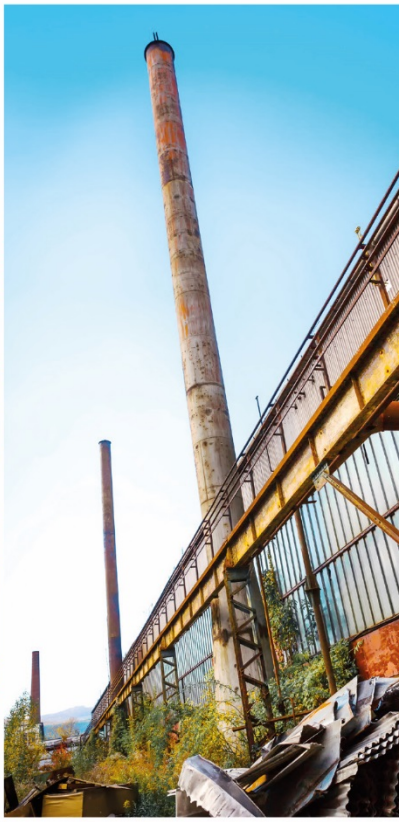
Site Characterization Technical Memorandum

Groundwater Investigation
South Dayton Dump and Landfill Site
Moraine, Ohio



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1. Introduction

This Site Characterization Technical Memorandum (SCTM) report presents the results of work completed to date for the groundwater investigation at the South Dayton Dump and Landfill Site (Site). The Site is located on the west side of Dryden Road (also known as Springboro Pike), at 1901 through 2153 Dryden Road and 2225 East River Road in Moraine, Ohio. The Site location is shown on Figure 1.1 and the Site layout is shown on Figure 1.2.

GHD has prepared this SCTM report on behalf of the Respondents to the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study for Operable Unit (OU)1 and OU2, United States Environmental Protection Agency (USEPA) Docket No. V-W-16-C-011 (Respondents).

1.1 Overview

This SCTM report provides the groundwater investigation activities results from work conducted from October 2017 to February 2019, which includes completion of boreholes for vertical aquifer sampling (VAS) and temporary monitoring wells (TMW), monitoring well (MW) installation, water level monitoring, sample collection/ laboratory analysis, and data validation/ assessment. The SCTM also incorporates results from previous investigations in support of the data assessment.

The groundwater investigations were completed in accordance with the phased approach detailed in the Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2 (GHD, September 20, 2017) (RI/FS Work Plan), approved by the USEPA on September 22, 2017.

1.1.1 Groundwater Investigation Objectives

Section 5.7 of the RI/FS Work Plan details the groundwater investigation purpose, summarized as follows:

- The purpose of Phase 1B monitoring well installation is to monitor groundwater at locations determined from previous investigations
- The purpose of Phase 2A vertical aquifer sampling (VAS) includes:
  - Determining whether or not groundwater migrating from OU1 contains contaminants of concern (COCs) at concentrations greater than Action Levels
  - Determining whether some groundwater contamination results from off-Site or upgradient sources
  - Delineating the vertical extent of known groundwater contamination
  - Determining the depth intervals of maximum contaminant concentrations in Site-related areas of concern

1.2 Report Organization

The SCTM report is organized as follows:

Section 1 is the introduction

Section 2 provides information regarding investigative activities conducted from October 2017 through February 2019

Section 3 provides information related to Site setting, geology and hydrogeology

Section 4 presents the analytical results for groundwater sampling conducted to date

Section 5 presents an assessment of groundwater data and soil/fill data

Section 6 presents proposed work to be conducted

Section 7 provides references

2. Field Investigation Activities

2.1 General

The field investigation included the following:

- Installation of new monitoring wells, well development, water level monitoring, and collection of groundwater samples from monitoring wells for laboratory analysis (as discussed in Section 2.2).
- Completion of boreholes for collection of groundwater samples using temporary monitoring wells (as discussed in Section 2.3).
- Completion of vertical aquifer sampling (VAS) boreholes for collection of groundwater samples (as discussed in Section 2.4).

The field program was implemented concurrently with the soil/fill investigation (GHD, July 17, 2019). Soil/fill investigative locations are shown on Figure 2.1. Groundwater investigative locations (including VAS, boreholes/temporary monitoring wells, and permanent monitoring wells) are shown on Figure 2.2. Stratigraphic and instrumentation logs are provided in Appendix A.

2.2 Monitoring Well Installation and Sampling

The RI/FS Work Plan proposed installation of new monitoring wells and collection of groundwater samples from new and existing monitoring wells. The activities completed from October 2017 to present are described in the following subsections.

2.2.1 2017 Groundwater Sampling

The RI/FS Work Plan included collection of groundwater samples from selected monitoring wells, at the commencement of the OU1 groundwater investigation, to supplement data from the most recent prior (2015) sampling event.

The October 2017 sampling event targeted 14 monitoring wells located on or immediately adjacent to OU1 (GHD, December 5, 2017). Sampling at monitoring wells located within the Dayton Power & Light (DP&L) facility was deferred pending access approval. Prior to sampling, GHD measured water levels in all accessible monitoring wells. Water level data are included in Table 2.1. Monitoring well locations are shown on Figure 2.1.

Groundwater samples were collected from 11 of 14 targeted monitoring wells (MW-206, MW-207, MW-208, MW-210, MW-210A, MW-210B, MW-218A, MW-218B, MW-225, MW-226, and MW-227) from October 3 to 6, 2017. Three monitoring wells could not be sampled due to access difficulties as follows:

- Access was not granted by the property owner to MW-214, located on Jim City Salvage Inc. property. This well was subsequently sampled in March 2018.
- MW-217 and MW-228, located on Valley Asphalt property were not found. MW-217 was subsequently determined to be covered by asphalt pavement and was repaired in May 2018 and sampled in October 2018. MW-228, which was buried by a stockpile of reclaimed asphalt was subsequently uncovered and then abandoned in February 2019. In addition, one monitoring well (MW-223B) located at the DP&L facility was not found during the October 2017 event. MW-223B was subsequently located, repaired and sampled in 2018. The well repair and abandonment activities are discussed in Section 2.2.2.1.

Information regarding groundwater sample collection is provided by the following:

- Low-flow purging was completed at a rate of 150 milliliters per minute (mL/min) using a bladder pump with dedicated Teflon tubing, and with the pump intake set at the middle of each well screen interval. Field parameters were recorded to determine stabilization before sampling. The field parameters included dissolved oxygen (DO), oxidation-reduction potential (ORP), pH, temperature, specific conductance, and turbidity. Well purging records are provided in Appendix B.
- GHD submitted groundwater samples (17 total, including three trip blanks, one field duplicate, one rinsate blank, and one matrix spike/matrix spike duplicate) to TestAmerica Laboratories in North Canton, Ohio for analysis of volatile organic compounds (VOCs) - Target Compound List (TCL) and Method SW-846 8011; semi-volatile organic compounds (SVOCs); pesticides; herbicides; poly-chlorinated biphenyls (PCBs); Target Analyte List (TAL) metals including mercury (total and dissolved); major anions (chloride, nitrate, nitrite, sulfate); and cyanide.

2.2.2 Monitoring Well Installation

Four monitoring wells (MW-230, MW-233, MW-224, and MW-235) were installed in 2018 in accordance with the procedures shown below (as outlined in the RI/FS Work Plan):

- Two monitoring wells (MW-230 and MW-233) were installed using the sonic drilling method using a nominal 6-inch inside diameter casing. Two monitoring wells (MW-234 and MW-235) were installed using a direct-push drilling method using 4.25-inch dual tube hollow stem augers (HSA). Two other monitoring wells (MW-231, MW-232) that were proposed in the RI/FS Work Plan were not installed pending completion of other nearby sampling locations and assessment of the results, with USEPA agreement.

- Prior to monitoring well installation, soil core samples from drilling activities were collected continuously for field screening with a photoionization detector (PID) and classification using the Unified Soil Classification System (USCS) in accordance with American Society for Testing Materials International (ASTM International) Method D2488-11. GHD did not submit soil samples for laboratory analyses based on negative field screening results (i.e., no visual observations of staining, no odor, no positive Sudan IV dyes test results, and absence of undifferentiated VOCs based on PID readings).
- Each monitoring well was completed with 2-inch diameter well screens and risers, 2-inch diameter number 10-slot, 5- or 10-foot long Schedule 40 PVC well screens and flush threaded Schedule 40 PVC riser pipe allowing for approximately 3 feet of stick up. Ten-foot long Schedule 40 PVC well screen was used for water table wells (i.e., MW-230, MW-233, and MW-234) and 5-foot long Schedule 40 PVC well screens was used for the other well (i.e., MW-235). A tremie pipe was used to place a filter pack consisting of coarse silica sand (10/20 mesh) from the bottom of the well screen to 2 feet above the well screen, and 1 foot of fine (20/40 mesh) silica sand from 2 to 3 feet above the well screen. Approximately 2 to 3 feet of bentonite pellets were placed above the filter sand to help provide a seal for the bentonite grout.
- The boring annulus above the bentonite pellet layer was backfilled with bentonite grout to within 3 feet of ground surface. The uppermost 3 feet of the boring annulus was filled with concrete, forming a pad with a diameter of at least 2 feet at ground surface. Each pad was constructed to slope away from the monitoring well. A lockable protective steel casing was set in the concrete over the well riser. The well casing extended to approximately 2.5 feet above ground surface, and was fitted with a hinged cap with lock. The well identification number was permanently marked on the outer casing of each newly installed monitoring well.
- Stratigraphic and instrumentation logs for new monitoring wells (MW-230, MW-233, MW-234, and MW-235) are included in Appendix A.

The following subsections provide information regarding monitoring well repair and abandonment, and well development.

2.2.2.1 Monitoring Well Repair and Abandonment

Two monitoring wells (MW-217 and MW-223B) were repaired in 2018 and one monitoring well (MW-228) was abandoned in 2019, with agency approval. These activities were conducted in accordance with GHD's Well Location and Decommissioning Work Plan (Attachment 1 to GHD letter dated June 22, 2018 regarding Notice of Violation of OAC 3745 9 03[B] and OAC 3745 9 03[C]) summarized as follows:

- On May 31, 2018, MW-217 on Valley Asphalt property was repaired by removing the asphalt pavement to expose the existing flush-mount cover followed by installation of a new road box cover.
- On September 6, 2018, MW-223B at the DP&L facility was repaired by removing the overlying asphalt pavement and installing a new flush-mount cover.
- Decommissioning of MW-228 was completed by Cascade Drilling on February 21, 2019, and was overseen by a GHD field technician. The well was over drilled and the borehole grouted to the surface. In accordance with Ohio Revised Code 1521.05(C), on March 21, 2019, Cascade

Drilling electronically filed the original well sealing report (Form #322955) with Ohio Department of Natural Resources (ODNR) Division of Geological Survey; Cascade Drilling electronically filed a corrected well sealing report (Form 323035) on March 25, 2019.

Notice of completion of the well repair and abandonment activities were provided in GHD's letter to Ohio EPA dated April 1, 2019. Ohio EPA provided written approval confirming resolution of the violation via letter to GHD dated May 30, 2019.

2.2.2.2 Monitoring Well Development

Four new monitoring wells (MW-230, MW-233, MW-234, and MW-235) and two repaired monitoring wells (MW-217 and MW-223B) were developed in 2018 as outlined below:

- Monitoring well development was completed as follows: MW-230 and MW-233 on August 9, 2018; MW-217 and MW-234 on September 27, 2018; MW-235 on September 28, 2018; and MW-223B on October 15, 2018.
- Each monitoring well was developed by alternating cycles of surging and over pumping or bailing at rates greater than those used during sampling, at least 48 hours after grouting was completed.
- Turbidity and other stabilization parameters were measured at the beginning of each period of purging (following surging). Development continued until the turbidity of the development water was equal to or less than 5 nephelometric turbidity units (NTUs), or until achieving the Work Plan requirements based on volume removed and other stabilization parameters (temperature, conductivity, temperature).
- Well development records are provided in Appendix B.

2.2.3 2018 Groundwater Sampling

Groundwater samples were collected from 13 monitoring wells in 2018 (GHD, February 21, 2019). This includes six monitoring wells (MW-214, MW-217, MW-223A, MW-223B, MW-224A, and MW-224B) that could not be sampled in 2017 due to access issues, four new monitoring wells (MW-230, MW-233, MW-234, and MW-235), and three monitoring wells (MW-209, MW-209A, MW-212) located near the Quarry Pond[1]. Each of these monitoring wells was sampled from October 16 to October 25, 2018, with the exception of MW-214 (located at Jim City property), which was sampled on March 23, 2018.

GHD measured groundwater elevation levels at all accessible monitoring wells in March and October 2018 prior to collecting groundwater samples, as well as in June and December 2018. Water level data are included in Table 2.1. Monitoring well locations are shown on Figure 2.2. GHD notes that several DP&L monitoring wells located near the Transportation Building were abandoned by DP&L in 2018 and are therefore no longer available. Also, one monitoring well (MW-220) installed by Respondents within the DP&L facility adjacent to the Transportation Building was erroneously abandoned by DP&L in 2018.

[1] The RI/FS Work Plan includes collection of groundwater samples from selected monitoring wells related to the Quarry Pond Investigation.

Information regarding sample collection is provided by the following:

- Low-flow purging was completed at rates between 200 to 500 milliliters per minute (mL/min) using a bladder pump with dedicated Teflon tubing, and with the pump intake set at the middle of each well screen interval. Field parameters were recorded to determine stabilization before sampling. The field parameters included DO, ORP, pH, temperature, specific conductance, and turbidity. Well purging records are provided in Appendix B.
- GHD submitted 15 groundwater samples (including two field duplicates) to TestAmerica Laboratories in North Canton, Ohio for analysis of VOCs - TCL and Method SW-846 8011; SVOCs; pesticides; PCBs; TAL metals including mercury (total and dissolved); major anions (chloride, nitrate, nitrite, sulfate); and cyanide. In addition, 13 of 15 samples were submitted for laboratory analysis of herbicides.

2.3 Temporary Monitoring Wells

The RI/FS Work Plan included 20 proposed boreholes/ temporary monitoring well (BH/TMW) installations to collect groundwater samples. All proposed BH/TMW locations were completed from May 2018 to January 2019 with one exception as discussed below. The BH/TMW locations that were completed, in sequence, include the following:

- BH03-18, BH01-18, BH02-18, BH04-18, BH05-18, BH06-18, BH07-18, BH08-18, BH10-18, BH09-18, BH14-18, BH20-18, BH12-18, and BH13-18; completed in May 2018 (GHD, August 13, 2018).
- BH11-18, BH16-18, BH15-18 and BH14-18; completed in July to September 2018 (GHD, January 22, 2019).
- BH18-19 and BH19-19; completed in January 2019 (GHD, May 6, 2019).

One proposed location at East River Road (BH17) was not completed due to property access issues. Deletion of this sample location was proposed in GHD's letter dated January 22, 2019.

Each BH/TMW location was completed to the depth required by the RI/FS Work Plan, with the exception of BH11-18, where two screen intervals were completed as an alternative to VAS-45 due to access and potential disruption of business operations expressed by the property owner (Globe Equipment). Stratigraphic logs are included in Appendix A.

Information regarding field activities and sample collection is provided by the following:

- Drilling was conducted using direct push technology (DPT) methods at 16 locations and sonic methods at three locations (BH14-18, BH15-18, and BH16-18)[2]. The soil core retrieved from each location was logged to determine stratigraphy to the required depth, up to 44 feet below ground surface (BGS). The soil boring was sealed using bentonite.
- At each location a second off-set boring was advanced to install a temporary monitoring well, constructed with a 4-foot steel screen set at the desired depth based on stratigraphic information.

[2] At BH14-18 the initial attempt using DPT was unsuccessful due to equipment limitations. This location was subsequently completed using sonic equipment.

- Low flow purging was completed using a bladder pump with Teflon tubing, and with the pump intake set at the middle of each sampling interval (middle of 4-foot screen). Field parameters were recorded to determine stabilization before sampling. The field parameters included DO, ORP, pH, temperature, specific conductance, and turbidity. Purging and stabilization data are summarized in Appendix B.
- Groundwater samples were collected from each temporary monitoring well, with the exception of BH14-18, where a sample was not collected due to equipment limitations. GHD resampled this location using sonic drilling methods.
- GHD submitted a total of 20 investigative groundwater samples plus quality assurance/ quality control (QA/QC) samples (including 13 trip blanks, 4 field duplicates, 2 equipment blanks, and 1 matrix spike/ matrix spike duplicate samples) to TestAmerica Laboratories in North Canton, Ohio for analysis parameters required by the RI/FS Work Plan.
- All investigative samples were analyzed for VOCs, metals (total and dissolved) and general chemistry parameters, with the exception of one sample (BH11-18, 38 to 43 feet BGS) that was analyzed for only VOCs due to insufficient water production. Select samples were analyzed for the other parameters listed above in accordance with the RI/FS Work Plan.
- Sudan IV testing was positive for non-aqueous phase liquids (NAPL) for two screened soil borehole samples, one from borehole BH08-18 (25 to 26 feet BGS) and one from BH10-18 (39 to 41 feet BGS). At both soil sample intervals staining and odors were noted. The PID readings were zero at BH08-18, and 5.1 ppm at BH10-18 at 41 feet BGS. The detected concentrations of individual VOCs and SVOCs in the groundwater samples at these locations (see Section 4) are less than 10 µg/L. These observations indicate that the presence of NAPL is unlikely.

2.4 Vertical Aquifer Sampling

The RI/FS Work Plan included 16 proposed VAS locations to collect groundwater samples to depths up to 150 feet BGS). All proposed VAS locations were completed during the period of October 2017 through February 2019 with one exception as discussed below. The VAS locations that were completed, in sequence, include the following:

- VAS-15B, VAS-35, VAS-32, VAS-33, VAS-31, VAS-44, VAS-38, and VAS-34; completed from December 2017 through February 2018 (GHD, May 3, 2018).
- VAS-42, VAS-43, VAS-40, VAS-37, VAS-22b, and VAS-36; completed from July 2018 through October 2018 (GHD, January 22, 2019).
- VAS-39, completed in February 2019 (GHD, May 6, 2019).

One proposed VAS location at DP&L property (VAS-41) was not completed based on the results for other nearby VAS locations. Deletion of this sample location was proposed in GHD's letter dated January 22, 2019.

Each VAS location was completed to the depth required by the RI/FS Work Plan, either 100 or 150 feet BGS depending on the location. Stratigraphic logs are included in Appendix A.

Information regarding field activities and sample collection is provided by the following:

- Drilling was conducted using sonic methods. The amount of water added during drilling was recorded. Pumping was conducted to remove at least two times the volume added at each sample interval, prior to purging for sample collection.
- Low flow purging was completed using a bladder pump with Teflon tubing, and with the pump intake set at the middle of each sampling interval. Field parameters were recorded to determine stabilization before sampling. The field parameters included DO, ORP, pH, temperature, specific conductance, and turbidity.
- Groundwater samples were collected from the required sample intervals at each location, with the exception of three sample intervals where purging could not be conducted due to insufficient water. Purging and stabilization data are summarized in Appendix B.
- GHD submitted a total of 179 investigative groundwater samples plus various quality assurance/ quality control (QA/QC) samples (including 79 trip blanks, 15 field duplicates, 16 rinsate blanks/ equipment blanks, and 9 matrix spike/ matrix spike duplicate samples) to TestAmerica Laboratories in North Canton, Ohio for analysis parameters required by the RI/FS Work Plan, which includes the following: VOCs; SVOCs; Pesticides PCBs; Metals (total and dissolved) and cyanide; and general chemistry (chloride, nitrate, nitrite, sulfate).
- All investigative samples were analyzed for VOCs, metals (total and dissolved) and general chemistry parameters. Select samples were analyzed for the other parameters listed above in accordance with the RI/FS Work Plan.
- Sudan IV testing was positive for NAPL at two VAS locations including: VAS-33 (24 to 25 feet BGS) and VAS-35 (50 to 55 feet BGS):
  - At VAS-33 a faint odor was noted at 24 feet BGS and the PID reading was 7.2 ppm at 20 to 24 feet BGS. The groundwater sample collected from VAS-33 at 25 to 30 feet BGS identified the presence of VOCs with detected concentrations (see Section 4) less than 10 µg/L. These observations indicate that the presence of NAPL at VAS-33 is unlikely.
  - At VAS-35 a hydrocarbon odor was noted and elevated PID readings were recorded at 50 to 55 feet BGS (678 ppm) and 55 to 60 feet BGS (1125 ppm). The groundwater sample collected from VAS-35 at 50 to 60 feet BGS (see Section 4) identified the presence of VOCs including cyclohexane (890 µg/L), ethylbenzene (1600 µg/L) and xylenes (4800 µg/L). This suggests that NAPL may be present at VAS-35.

2.5 Groundwater Sample Laboratory Analysis and Data Validation

Groundwater samples were collected and submitted for laboratory analysis as described in the preceding sections. The list of samples submitted for laboratory analysis are presented in Appendix B – Table B5.1. Per the RI/FS Work Plan the analytical laboratory deliverables were reviewed by GHD for data validation purposes. GHD's data validation reports for groundwater samples are included in Appendix C. The results of GHD's assessment were used to identify data qualifiers for inclusion in the analytical database, as presented in the data tables within this report.

2.6 Summary of Remaining Activities

A summary of investigative activities, outlined in the RI/FS Work Plan that remain to be completed or could not be completed or altered are summarized as follows:

- Two proposed monitoring wells (MW-231 and MW-232) in the MW-210 area were not installed pending results of other proposed groundwater sampling on adjacent properties, i.e., VAS-36, BH11-18, BH12-18, and BH13-18, as agreed with USEPA. GHD proposes to delete these locations from the investigation based on installation of new proposed monitoring wells discussed in Section 6.
- Proposed VAS-45 was modified and completed as BH11-18 due to access and potential disruption of business operations expressed by the property owner (Globe Equipment), with USEPA approval (as reported in GHD's letter to USEPA dated January 22, 2019).
- Proposed VAS-41, located at the DP&L facility, was to be completed contingent on the results from VAS-40. GHD determined that VAS-40 results are consistent with available analytical results for other groundwater sample locations along the northern side of the DP&L facility, i.e., VAS-28, VAS-30, MW-222A, MW-222B, MW-224A, and MW-224B (as reported in GHD's letter to USEPA dated January 22, 2019). GHD concludes that VAS-41 is not necessary to determine the extent of contamination in this area and proposes to delete VAS-41 from the investigation.
- Proposed BH17, located on non-responsive (East River Road) was not completed due to denial of property access. GHD proposed to delete this location from the investigation (as reported in GHD's letter to USEPA dated January 22, 2019).
- A second round of groundwater sampling at four new monitoring wells (MW-230, MW-233, MW-234, and MW-235) remains to be completed during periods of high groundwater levels (i.e., spring). GHD proposes to complete this as part of additional work described in Section 6.

3. Site Setting

3.1 General

The area of the Site generally includes a combination of developed and undeveloped land. The northern and central areas include a variety of operating businesses with access along Dryden Road, and open ground within the central area situated between the operating businesses and the Miami Conservancy District (MCD) floodway. The southern area includes operating businesses with access along East River Road, and the Quarry Pond situated adjacent to the MCD floodway. Figure 3.1 shows the Site vicinity including the OU1 boundary, the Great Miami River (GMR), and adjacent land use.

Figure 3.2 shows a topographic map of the Site and surrounding area. As shown on the figure the ground elevation along the Dryden Road corridor and portions of the northern and central areas is generally around 730 to 740 feet above mean sea level (AMSL). Lower elevations are found within the central area, where the "large pond" and small pond" are located, and the area of the Quarry Pond. Figure 3.3a presents information for depth to native soil based on borehole information from previous and current investigations. As shown on the figure, the depth to native material within OU1

varies from around 5 feet BGS to over 40 feet BGS. Figure 3.3b shows elevation contours for the contact of the native soil and the overlying fill material.

3.2 Geology and Hydrogeology

The Dayton area is located within the buried pre-glacial valley system that underlies the present day GMR and its tributaries in southwestern Ohio. This pre-glacial valley system is known as the Miami Valley Aquifer System. The regional overburden geology of the Dayton area consists of glacial tills, and glaciofluvial sand and gravel deposits. Norris and Spieker (1966) defined the overburden units, based on general character and relative position to be (from top to bottom):

- Ground Moraine (glacial till) – composed of silt, gravel, and clay; found primarily in the uplands area (not present at the Site).
- Upper Aquifer Zone – the saturated glaciofluvial sand and gravel zone located above a major till-rich zone.
- Till-Rich Zone – composed of discontinuous fine-grained glacial till and other fine-grained materials with substantial components of sand and gravel.
- Lower Aquifer Zone – the glaciofluvial sand and gravel zone located beneath the Till-Rich Zone.

The subsurface geology in the vicinity of the Site, identified by GHD, consists of fill and waste underlain by glacial tills, and glaciofluvial sand and gravel deposits.

Norris and Spieker (1966) identified three principal hydrogeologic units in the Dayton area, as follows:

- Upper Aquifer Zone – the upper portion of the saturated glaciofluvial sand and gravel facies.
- Till-Rich Zone – a zone of discontinuous low permeability till facies interspersed with sand and gravel facies which acts as an aquitard in some areas.
- Lower Aquifer Zone – the lower portion of the saturated glaciofluvial sand and gravel facies.

The subsurface hydrostratigraphy in the vicinity of the Site is consistent with the regional geology of the Miami Valley Aquifer with the exception that the Till Rich Zone is highly discontinuous beneath the Site. Monitoring wells screened above approximately 675 feet AMSL appear to be representative of the Upper Aquifer Zone. Monitoring wells screened below 675 feet AMSL appear to be representative of the Lower Aquifer Zone. Due to the stratigraphic variation of the Till Rich Zone both vertically and laterally, the implied 675 feet AMSL boundary between the Upper and Lower Aquifer Zones is approximate and may vary in elevation across the Site.

GHD prepared geologic cross-sections based on previous and current investigation results, at the locations shown on Figure 3.4. Cross-sections are shown on Figures 3.5a through 3.5f. Cross-section A-A' (Figure 3.5a) is oriented from north to south along the west side of Dryden Road, then toward the southwest within the East River Road and Jim City properties. The cross-section shows a fill layer of variable thickness underlain by silty sand and gravel deposits. Lenses containing clay and silt exist within the sand and gravel deposits. The remaining cross-sections (B-B' through F-F') are generally oriented in an east-west direction. In the northern area, cross-section B-B' (Figure 3.5b) and cross-section C-C' (Figure 3.5c) show the fill layer of variable thickness at the Site, extending to the DP&L facility east of Dryden Road, with underlying silty sand and gravel deposits,

and clay/silt lenses that separates the upper and lower aquifers. In the central area, cross-section D-D' (Figure 3.5d) and cross-section F-F' (Figure 3.5f) show the fill layer of variable thickness underlain by silty sand and gravel deposits and occasional clay/silt lenses. Cross-section E-E' (Figure 3.5e) located along the southern side of the Quarry Pond illustrates predominantly silty sand and gravel deposits.

Groundwater flow in the Upper Aquifer Zone is influenced by the presence of the GMR. Shallow groundwater (i.e., Upper Aquifer Zone) typically flows west/southwest across the Site, and/or radially (in the northern part of OU1) towards the GMR. Occasional flow slightly to the southeast has been documented during extended periods of high flow in the GMR. Depending on surface water elevations at different times of the year, shallow groundwater discharges to, or is recharged by the GMR. During flood events, groundwater flow is occasionally reversed and migrates from the GMR towards the Site. Groundwater flow in the Lower Aquifer Zone is predominantly to the southwest across the Site, with occasional slight southeasterly components, and is not significantly affected by the GMR. The groundwater elevation in the vicinity of the Site is typically between 700 and 725 feet AMSL (likely closer to 710 feet AMSL at OU1). Groundwater contour maps from previous investigations are included in Appendix H of the RI/FS Work Plan.

GHD prepared groundwater level contour maps using 2018 water level data, presented on Figures 3.6 through 3.13. The maps illustrate groundwater level contours for four separate quarterly events (March, June, October, and December) for the upper aquifer and lower aquifer based on available data, i.e., wells that were accessible for each event. The upper aquifer groundwater level contour maps indicate gradients from the Site toward the GMR floodplain in March (Figure 3.6) and June (Figure 3.8) with a southerly flow component toward the Quarry Pond. The upper aquifer groundwater maps for October (Figure 3.10) and December (Figure 3.12) indicate southerly gradients within the central part of the Site toward the Quarry Pond and relatively flay gradients in the northern part of the Site. The lower aquifer groundwater level contour maps indicate southwesterly gradients at the Site in March (Figure 3.7) and June (Figure 3.9). The lower aquifer groundwater maps for October (Figure 3.11) and December (Figure 3.13) indicate southwesterly gradients at the southern part of the Site and mounding in the central part of the Site, with inclusion of data from the DP&L facility. Each of the lower aquifer groundwater contour maps indicates relatively small gradients by comparing water levels at the north and south limits of the Site.

4. Groundwater Analytical Results

This section presents analytical results for groundwater samples collected from OU1 (Section 4.1) and areas outside of OU1 (Section 4.2). This includes results for samples collected during the current RI program (2017 to present) and earlier investigations, and comparison with USEPA Regional Screening Levels (RSLs). The RSLs include chemical-specific values, i.e., Maximum Contaminant Levels (MCLs) for drinking water, and risk-based (tap water) values.

4.1 Operable Unit 1

Analytical results for groundwater samples collected from OU1 are presented in Appendix D, in the tables listed below:

- Appendix D – Table 1: Analytical Results for Groundwater Samples – OU1 Upper Aquifer

- Appendix D – Table 2: Analytical Results for Groundwater Samples – OU1 Lower Aquifer

Each table in Appendix D includes analytical results for samples collected during the current RI program and earlier investigations as noted above. The tables also show USEPA RSLs and indicate the detected values that are greater than the RSLs.

Table 4.1 and Table 4.2 provide information for each detected parameter (number of samples, number of detects, minimum detected concentration, and maximum detected concentration) for the upper aquifer and lower aquifer samples, respectively (derived from the tables included in Appendix D). The following provides an overview of the analytical results for each parameter group.

4.1.1 Volatile Organic Compounds

The VOCs that were detected with maximum concentrations greater than RSLs are listed below.

VOCs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
OU1 Upper Aquifer						
1,1-Dichloroethane	-	2.8	349	111	31.8%	39
1,2,4-Trichlorobenzene	70	0.4	280	1	0.4%	1.2
1,2-Dibromo-3-chloropropane	0.2	0.00033	278	1	0.4%	0.0096
1,2-Dichloroethane	5	0.17	349	4	1.1%	34
1,4-Dichlorobenzene	75	0.48	280	19	6.8%	5.6
Benzene	5	0.46	349	71	20.3%	100
Bromodichloromethane	80	0.13	280	5	1.8%	1.3
Chlorobenzene	100	7.8	349	74	21.2%	130
Chloroform	80	0.22	280	23	8.2%	3.1
cis-1,2-DCE	70	3.6	278	194	69.8%	3,900
Ethylbenzene	700	1.5	280	47	16.8%	100
Methylene chloride	5	11	349	15	4.3%	51
PCE	5	4.1	349	18	5.2%	4.6
Toluene	1,000	110	349	164	47.0%	270
TCE	5	0.28	349	161	46.1%	5,100
Vinyl chloride	2	0.019	349	130	37.2%	760
Xylenes (total)	10,000	19	349	44	12.6%	190
OU1 Lower Aquifer						
1,1-Dichloroethane	-	2.8	212	51	24.1%	3.5
1,2-Dichloroethane	5	0.17	212	3	1.4%	1.2
Benzene	5	0.46	212	39	18.4%	1,100
Bromodichloromethane	80	0.13	212	4	1.9%	1.1
Chloroform	80	0.22	212	18	8.5%	1.8
cis-1,2-DCE	70	3.6	212	124	58.5%	650
Methylene chloride	5	11	212	3	1.4%	9.8
TCE	5	0.28	212	49	23.1%	220
Vinyl chloride	2	0.019	212	147	69.3%	350

As shown above 17 VOCs in OU1 upper aquifer samples and nine VOCs in OU1 lower aquifer samples were detected at concentrations greater than RSLs. The VOCs detected at the greatest concentrations in the upper aquifer samples include cis-1,2-DCE (up to 3,900 µg/L), TCE (up to

5,100 µg/L), and vinyl chloride (up to 760 µg/L). These VOCs were detected at the greatest frequency in upper aquifer samples, along with toluene (up to 270 µg/L). The VOCs detected at the greatest concentrations in the lower aquifer samples include benzene (up to 1,100 µg/L), cis-1,2-DCE (up to 650 µg/L), TCE (up to 220 µg/L), and vinyl chloride (up to 350 µg/L). The VOCs detected at the greatest frequency in lower aquifer samples are cis-1,2-DCE and vinyl chloride.

VOCs that were detected in OU1 groundwater samples at concentrations greater than MCLs include the following:

- OU1 upper aquifer: 1,2-Dichloroethane, Benzene; Chlorobenzene, cis-1,2-DCE; Methylene chloride, TCE; Vinyl chloride
- OU1 lower aquifer: Benzene, cis-1,2-DCE, Methylene chloride, TCE; Vinyl chloride

As indicated above, the VOCs detected at the greatest maximum concentrations and greatest frequency in OU1 groundwater samples include benzene, cis-1,2-DCE, TCE, and vinyl chloride. In addition, the maximum detected VOC concentrations are greater in the upper aquifer samples compared to the lower aquifer samples, with the exception of benzene.

4.1.2 Semi-volatile Organic Compounds

The SVOCs that were detected at concentrations greater than RSLs are listed below.

SVOCs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
OU1 Upper Aquifer						
2-Methylnaphthalene	-	3.6	88	10	11.4%	56
Benzo(a)anthracene	-	0.03	88	4	4.5%	1.3
Benzo(a)pyrene	0.2	0.025	88	5	5.7%	1.1
Benzo(b)fluoranthene	-	0.25	88	5	5.7%	1.2
Biphenyl	-	0.083	86	2	2.3%	1.2
bis(2-Ethylhexyl)phthalate	6	5.6	88	11	12.5%	160
Dibenz(a,h)anthracene	-	0.025	88	1	1.1%	0.3
Dibenzofuran	-	0.79	88	4	4.5%	3.2
Indeno(1,2,3-cd)pyrene	-	0.25	88	4	4.5%	0.88
Naphthalene	-	0.17	187	18	9.6%	17
OU1 Lower Aquifer						
None detected > RSLs						

As shown above SVOCs were generally not detected at concentrations greater than RSLs in OU1 groundwater samples. Ten SVOCs were detected at concentrations greater than RSLs in OU1 upper aquifer samples, with relatively low detection frequencies. Those detected at the greatest concentrations and frequencies include 2-Methylnaphthalene, bis(2-Ethylhexyl)phthalate, and naphthalene. Two SVOCs (Benzo(a)pyrene and bis(2-Ethylhexyl)phthalate) were detected in OU1 upper aquifer groundwater samples at concentrations greater than respective MCLs. SVOCs were not detected in any OU1 lower aquifer samples at concentrations greater than RSLs.

4.1.3 Metals

The metals that were detected at concentrations greater than RSLs in total and/or dissolved groundwater samples are listed below.

Metals	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	Total - detection frequency	Total - Max. detect (µg/L)	Dissolved - detection frequency	Dissolved - max. detect (µg/L)
OU1 Upper Aquifer						
Aluminum	-	2,000	76.1%	62,000	23.9%	8,700
Antimony	6	0.78	30.7%	23	13.0%	3.3
Arsenic	10	0.052	88.7%	3,200	62.2%	230
Barium	2,000	380	92.1%	5,000	100.0%	5,200
Beryllium	4	2.5	29.5%	4.3	5.4%	0.86
Cadmium	5	0.92	21.8%	14	7.6%	0.49
Chromium	100	-	49.5%	610	15.2%	22
Cobalt	-	0.6	75.0%	72	70.7%	33
Copper	1,300	80	58.0%	1,900	35.9%	39
Iron	-	1,400	94.3%	390,000	91.3%	28,000
Lead	15	15	74.6%	1,940	21.4%	20
Manganese	-	43	98.9%	15,000	97.8%	2,400
Mercury	2	0.063	4.3%	0.56	0.0%	ND
Nickel	-	39	70.5%	300	63.0%	28
Selenium	50	10	40.9%	25.3	30.4%	26.3
Thallium	2	0.02	29.5%	4.4	15.2%	6.7
Vanadium	-	8.6	43.2%	160	12.0%	20
Zinc	-	600	53.4%	5,500	44.6%	4,400
OU1 Lower Aquifer						
Aluminum	-	2,000	83.3%	120,000	18.2%	10,000
Antimony	6	0.78	31.9%	6	15.2%	1.5
Arsenic	10	0.052	98.6%	1,030	91.8%	38
Barium	2,000	380	97.2%	2,200	97.0%	737
Beryllium	4	2.5	16.7%	5.4	9.1%	1.6
Cadmium	5	0.92	19.4%	4.1	6.1%	0.41
Chromium	100	-	52.8%	300	10.6%	25
Cobalt	-	0.6	80.6%	100	69.7%	8.7
Copper	1,300	80	43.1%	370	18.2%	31
Iron	-	1,400	100.0%	300,000	100.0%	25,000
Lead	15	15	83.1%	320	18.4%	17
Manganese	-	43	100.0%	7,500	100.0%	1,200
Mercury	2	0.063	6.9%	0.24	3.0%	0.24
Nickel	-	39	58.3%	310	22.7%	26
Selenium	50	10	11.1%	14	6.1%	1.3
Thallium	2	0.02	13.9%	3	6.1%	0.63
Vanadium	-	8.6	33.3%	260	7.6%	21
Zinc	-	600	79.2%	2,700	86.4%	2,600

As shown above, 18 metal parameters were detected at concentrations greater than RSLs in OU1 groundwater samples. The metals detected at the greatest frequency (>90%) in total and dissolved

samples from both aquifers include barium, iron and manganese[3]. Arsenic was detected in more than 90% of total and dissolved samples from the lower aquifer but was less frequently detected (<90%) in upper aquifer samples. Most of the other metals were detected less frequently in dissolved samples compared to total samples.

In addition to arsenic, barium, iron and manganese, metals that were detected in at least 50% of total samples from both aquifers include aluminum, cobalt, lead, nickel, and zinc. The remaining metals, detected in less than 50% of total samples, include antimony, beryllium, cadmium, mercury, selenium, thallium and vanadium. Chromium was detected in slightly less than 50% of samples from the upper aquifer and more than 50% of samples from the lower aquifer. Copper was detected in more than 50% of total samples from the upper aquifer, but less than 50% of total samples from the lower aquifer. Mercury was detected at the lowest frequency, in less than 10% of samples from both aquifers.

As indicated above, the maximum detected concentrations of individual metal parameters range from less than 1 µg/L to greater than 100,000 µg/L (in total or dissolved samples), summarized as follows:

- >10,000 µg/L: aluminum, iron, and manganese
- >1,000 to 10,000 µg/L: arsenic, barium, copper, lead, and zinc
- >100 µg/L to 1,000 µg/L: chromium, nickel, and vanadium
- ≤100 µg/L: antimony, beryllium, cadmium, cobalt, mercury, selenium, and thallium

In general, the maximum detected concentrations in total samples are greater than the corresponding concentrations in dissolved samples, in some cases by two orders of magnitude.

Metals that were detected in OU1 groundwater samples at concentrations greater than MCLs include the following:

- OU1 upper aquifer: Antimony, Arsenic, Arsenic (dissolved), Barium; Barium (dissolved), Beryllium, Cadmium, Chromium, Copper, Lead, Lead (dissolved), Thallium, and Thallium (dissolved).
- OU1 lower aquifer: Arsenic, Arsenic (dissolved), Barium, Beryllium, Chromium, Lead, Lead (dissolved); and Thallium.

4.1.4 Polychlorinated Biphenyls

The PCBs that were detected at concentrations greater than RSLs are listed below.

PCBs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
OU1 Upper Aquifer						
Aroclor-1242 (PCB-1242)	-	0.0078	76	2	2.6%	0.19
Aroclor-1254 (PCB-1254)	-	0.0078	76	3	3.9%	0.3
Aroclor-1260 (PCB-1260)	-	0.0078	76	2	2.6%	0.19

[3] Other metal parameters including calcium, magnesium, potassium and sodium were detected in most or all samples but are not shown here since RSLs do not exist.

PCBs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
OU1 Lower Aquifer						
Aroclor-1254 (PCB-1254)	-	0.0078	15	2	13.3%	1.3

As shown above, PCBs were generally not detected at concentrations greater than RSLs in OU1 groundwater samples. PCB-1254 was detected in both upper aquifer and lower aquifer samples, with similar maximum detected concentrations.

4.1.5 Pesticides

The pesticides that were detected at concentrations greater than RSLs are listed below.

Pesticides	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
OU1 Upper Aquifer						
alpha-BHC	-	0.0072	49	1	2.0%	0.034
beta-BHC	-	0.025	49	3	6.1%	0.049
Heptachlor	0.4	0.0014	49	2	4.1%	0.051
OU1 Lower Aquifer						
alpha-BHC	-	0.0072	15	2	13.3%	0.04

As shown above, pesticides were generally not detected at concentrations greater than RSLs in OU1 groundwater samples. One pesticide (alpha-BHC) was detected in both upper aquifer and lower aquifer samples, with similar maximum detected concentrations. No parameters were detected at concentrations greater than MCLs.

4.1.6 Herbicides

Herbicides were not detected in any groundwater samples collected from OU1.

4.1.7 Other Parameters

Other parameters (categorized as general chemistry in Tables 4.1 and 4.2) that were detected at concentrations greater than RSLs are listed below.

Other Parameters	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
OU1 Upper Aquifer						
Cyanide (total)	200	0.15	38	10	26.3%	580
Nitrate (as N)	10,000	3,200	87	39	44.8%	19,000
OU1 Lower Aquifer						
None detected > RSLs						

As shown above, cyanide and nitrate were detected in OU1 upper aquifer groundwater samples at concentrations greater than RSLs. No parameters were detected in OU1 lower aquifer samples at concentrations greater than RSLs.

4.2 Outside OU1

Analytical results for groundwater samples collected from outside of OU1 are presented in Appendix D, in the tables listed below.

- Appendix D – Table 3: Analytical Results for Groundwater Samples – Outside OU1 Upper Aquifer
- Appendix D – Table 4: Analytical Results for Groundwater Samples – Outside OU1 Lower Aquifer

Each table includes analytical results for samples collected during the current RI program and earlier investigation results. The tables also show USEPA RSLs and indicate the detected values that are greater than the RSLs.

Table 4.3 and Table 4.4 provide information for each detected parameter (number of samples, number of detects, minimum detected concentration, and maximum detected concentration) for the upper aquifer and lower aquifer samples, respectively (derived from the tables included in Appendix D). The following provides an overview of the analytical results for each parameter group.

4.2.1 Volatile Organic Compounds

The VOCs that were detected at concentrations greater than RSLs are listed below.

VOCs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
Outside OU1 Upper Aquifer						
1,1,2,2-Tetrachloroethane	-	0.076	213	1	0.5%	1
1,2-Dibromoethane	0.05	0.0075	165	1	0.6%	0.036
Benzene	5	0.46	213	43	20.2%	2,600
Bromodichloromethane	80	0.13	168	4	2.4%	0.39
Chloroform	80	0.22	168	35	20.8%	6.6
cis-1,2-DCE	70	3.6	165	37	22.4%	10
Ethylbenzene	700	1.5	168	48	28.6%	2,500
Isopropyl benzene	-	45	165	30	18.2%	120
Methylene chloride	5	11	213	6	2.8%	6
Toluene	1,000	110	213	107	50.2%	3,600
TCE	5	0.28	213	94	44.1%	24
Vinyl chloride	2	0.019	213	1	0.5%	0.32
Xylenes (total)	10,000	19	213	47	22.1%	13,000
Outside OU1 Lower Aquifer						
1,1,2,2-Tetrachloroethane	-	0.076	198	1	0.5%	4.2
1,2,4-Trichlorobenzene	70	0.4	198	2	1.0%	5.3
1,2-Dibromo-3-chloropropane	0.2	0.00033	198	1	0.5%	0.011
1,2-Dichloroethane	5	0.17	198	3	1.5%	1.6
2-Hexanone	-	3.8	198	1	0.5%	11
Benzene	5	0.46	198	55	27.8%	360
Bromodichloromethane	80	0.13	198	12	6.1%	2.3
Chloroform	80	0.22	198	50	25.3%	5.2

VOCs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
cis-1,2-DCE	70	3.6	198	123	62.1%	840
Dibromochloromethane	80	0.87	198	5	2.5%	1.2
Ethylbenzene	700	1.5	198	22	11.1%	1,600
Isopropyl benzene	-	45	198	15	7.6%	75
Methylene chloride	5	11	198	1	0.5%	9.1
TCE	5	0.28	198	14	7.1%	6.9
Vinyl chloride	2	0.019	198	115	58.1%	260
Xylenes (total)	10,000	19	198	29	14.6%	4,800

As shown above, 13 VOCs in outside OU1 upper aquifer samples, and 16 VOCs in outside OU1 lower aquifer samples, were detected at concentrations greater than RSLs. The VOCs detected at the greatest concentrations in the upper aquifer samples include benzene (up to 2,600 µg/L), ethylbenzene (up to 2,500 µg/L), toluene (up to 3,600 µg/L), and xylenes (up to 13,000 µg/L). Toluene was detected at the greatest frequency (50.2%). TCE was also detected at a similar frequency (44.1%) but at relatively lower concentrations (up to 24 µg/L). The VOCs detected at the greatest concentrations in the lower aquifer samples include ethylbenzene (up to 1,600 µg/L) and xylenes (up to 4,800 µg/L) but both being relatively infrequently detected. The VOCs detected at the greatest frequency in lower aquifer samples are benzene (up to 360 µg/L), cis-1,2-DCE (up to 840 µg/L), and vinyl chloride (up to 260 µg/L).

VOCs that were detected in outside OU1 groundwater samples at concentrations greater than MCLs include the following:

- Outside OU1 upper aquifer: Benzene; Ethylbenzene; Methylene chloride; Toluene; TCE; Xylenes
- Outside OU1 lower aquifer: Benzene; cis-1,2-DCE; Ethylbenzene; Methylene chloride; TCE; Vinyl chloride

As indicated above, the VOCs detected at the greatest maximum concentrations from outside OU1 groundwater samples include benzene, ethylbenzene, toluene and xylenes; all of which were detected at greater concentrations in upper aquifer samples compared to lower aquifer samples. Conversely, cis-1,2-DCE and vinyl chloride were detected at greater frequencies and concentrations in lower aquifer samples compared to upper aquifer samples.

4.2.2 Semi-volatile Organic Compounds

The SVOCs that were detected at concentrations greater than RSLs are listed below.

SVOCs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
Outside OU1 Upper Aquifer						
2-Methylnaphthalene	-	3.6	77	8	10.4%	190
Benzo(a)anthracene	-	0.03	77	2	2.6%	0.24
Benzo(a)pyrene	0.2	0.025	77	1	1.3%	0.36
Benzo(b)fluoranthene	-	0.25	77	1	1.3%	0.42
Biphenyl	-	0.083	74	1	1.4%	1.6

SVOCs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
Dibenzofuran	-	0.79	77	4	5.2%	2.9
Indeno(1,2,3-cd)pyrene	-	0.25	77	1	1.3%	0.32
Naphthalene	-	0.17	77	11	14.3%	250
Outside OU1 Lower Aquifer						
2-Methylnaphthalene	-	3.6	21	2	9.5%	110
Biphenyl	-	0.083	21	1	4.8%	0.46
bis(2-Ethylhexyl)phthalate	6	5.6	21	3	14.3%	7.9
Dibenz(a,h)anthracene	-	0.025	21	1	4.8%	0.35
Indeno(1,2,3-cd)pyrene	-	0.25	21	1	4.8%	0.35
Naphthalene	-	0.17	21	2	9.5%	250

As shown above SVOCs were generally not detected at concentrations greater than RSLs from outside OU1 groundwater samples. Ten SVOCs were detected at concentrations greater than RSLs from outside OU1 groundwater (upper aquifer and lower aquifer) samples, with relatively low detection frequencies. SVOCs detected at the greatest concentrations include 2-Methylnaphthalene and Naphthalene. Two SVOCs [Benzo(a)pyrene and bis(2-Ethylhexyl)phthalate] were detected in outside OU1 groundwater samples at concentrations greater than MCLs.

4.2.3 Metals

The metals that were detected at concentrations greater than RSLs in total and/or dissolved groundwater samples are listed below.

Metals	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	Total - detection frequency	Total - max. detect (µg/L)	Dissolved - detection frequency	Dissolved - max. detect (µg/L)
Outside OU1 Upper Aquifer						
Aluminum	-	2,000	64.3%	170,000	20.3%	35,000
Antimony	6	0.78	21.4%	5.7	16.9%	1.9
Arsenic	10	0.052	75.9%	860	58.5%	240
Barium	2000	380	91.7%	21,000	100.0%	8,300
Beryllium	4	2.5	18.4%	12	13.6%	3
Cadmium	5	0.92	13.0%	4.4	10.2%	0.78
Chromium	100	-	38.0%	510	8.5%	93
Cobalt	-	0.6	50.0%	190	67.8%	32
Copper	1300	80	41.8%	420	20.3%	66
Iron	-	1,400	85.7%	500,000	65.7%	65,000
Lead	15	15	63.6%	330	26.8%	53
Manganese	-	43	99.0%	8,800	96.6%	1,600
Mercury	2	0.063	8.7%	0.39	0.0%	ND
Nickel	-	39	68.4%	480	55.9%	78
Selenium	50	10	64.1%	60	72.9%	60
Silver	-	9.4	12.6%	2	8.5%	0.44
Thallium	2	0.02	19.4%	5.4	11.9%	1.5
Vanadium	-	8.6	42.9%	470	16.9%	84
Zinc	-	600	48.0%	6,000	67.8%	6,600

Metals	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	Total - detection frequency	Total - max. detect (µg/L)	Dissolved - detection frequency	Dissolved - max. detect (µg/L)
Outside OU1 Lower Aquifer						
Aluminum	-	2,000	87.3%	63,000	22.7%	16,000
Antimony	6	0.78	31.0%	1.8	10.6%	5.6
Arsenic	10	0.052	100.0%	221	98.6%	10.7
Barium	2,000	380	100.0%	1,200	100.0%	1,200
Beryllium	4	2.5	31.0%	3.4	18.2%	0.94
Cadmium	5	0.92	21.1%	1.3	4.5%	0.34
Chromium	100	-	62.0%	110	15.2%	24
Cobalt	-	0.6	77.5%	39	53.0%	7.7
Copper	1,300	80	54.9%	130	9.1%	27
Iron	-	1,400	100.0%	91,000	98.5%	21,000
Lead	15	15	87.5%	392	33.3%	16
Manganese	-	43	100.0%	2,800	100.0%	760
Mercury	2	0.063	0.0%	ND	0.0%	ND
Nickel	-	39	63.4%	110	27.3%	22
Selenium	50	10	28.2%	5.4	7.6%	1.4
Silver	-	9.4	19.7%	23	1.5%	3.2
Thallium	2	0.02	25.4%	1.5	6.1%	0.35
Vanadium	-	8.6	54.9%	130	13.6%	31
Zinc	-	600	78.9%	2,300	83.3%	2,300

As shown above, 19 metal parameters were detected at concentrations greater than RSLs in OU1 groundwater samples. The metals detected at the greatest frequency (>90%) in total and dissolved samples include barium and manganese in the upper aquifer; and arsenic, barium, iron and manganese in the lower aquifer[4]. Most of the other metals were detected less frequently in dissolved samples compared to total samples.

In addition to arsenic, barium, iron, and manganese, metals that were detected in at least 50% of total samples from either aquifer include aluminum, chromium, cobalt, copper, lead, nickel, selenium, vanadium, and zinc. The remaining metals, detected in less than 50% of total samples, include antimony, beryllium, cadmium, mercury, silver, and thallium. Mercury was detected at the lowest frequency, in less than 10% of samples from the upper aquifer, and none in the lower aquifer.

As indicated above, the maximum detected concentrations of individual metal parameters range from less than 1 µg/L to greater than 100,000 µg/L (in total or dissolved samples), summarized as follows:

- >10,000 µg/L: aluminum, barium, and iron
- >1,000 to 10,000 µg/L: manganese and zinc
- >100 µg/L to 1,000 µg/L: arsenic, chromium, cobalt, copper, lead, nickel, and vanadium
- ≤100 µg/L: antimony, beryllium, cadmium, mercury, selenium, silver, and thallium

[4] Other metal parameters including calcium, magnesium, potassium and sodium were detected in most or all samples but are not shown here since RSLs do not exist.

In general, the maximum detected concentrations in total samples are greater than the corresponding concentrations in dissolved samples, in some cases by two orders of magnitude.

Metals that were detected in outside OU1 groundwater samples at concentrations greater than MCLs include the following:

- Outside OU1 upper aquifer: Arsenic, Arsenic (dissolved), Barium, Barium (dissolved), Beryllium, Chromium, Lead, Lead (dissolved), Selenium, Selenium (dissolved), and Thallium.
- Outside OU1 lower aquifer: Arsenic, Arsenic (dissolved), Chromium, Lead, and Lead (dissolved).

4.2.4 Polychlorinated Biphenyls

The PCBs that were detected at concentrations greater than RSLs are listed below.

PCBs	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
Outside OU1 Upper Aquifer						
Aroclor-1248 (PCB-1248)	-	0.0078	64	1	1.6%	0.39
Aroclor-1260 (PCB-1260)	-	0.0078	64	1	1.6%	0.082
Outside OU1 Lower Aquifer						
None detected > RSLs						

As shown above, PCBs were generally not detected at concentrations greater than RSLs from outside OU1 groundwater samples.

4.2.5 Pesticides

The pesticides that were detected at concentrations greater than RSLs are listed below.

Pesticides	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
Outside OU1 Upper Aquifer						
alpha-BHC	-	0.0072	42	1	2.4%	0.038
Dieldrin	-	0.0018	42	1	2.4%	0.013
gamma-BHC (lindane)	0.2	0.042	42	1	2.4%	0.016
Heptachlor	0.4	0.0014	42	3	7.1%	0.0095
Outside OU1 Lower Aquifer						
None detected > RSLs						

As shown above, pesticides were generally not detected at concentrations greater than RSLs from outside OU1 groundwater samples. No pesticides were detected at concentrations greater than MCLs.

4.2.6 Herbicides

Herbicides were not detected in any groundwater samples collected from outside OU1.

4.2.7 Other Parameters

Other parameters (categorized as general chemistry in Tables 4.3 and 4.4) that were detected at concentrations greater than RSLs are listed below.

Other Parameters	RSL – MCL (µg/L)	RSL – tapwater (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
Outside OU1 Upper Aquifer						
Cyanide (total)	200	0.15	25	1	4.0%	9.2
Nitrate (as N)	10,000	3,200	77	62	80.5%	13,000
Nitrite (as N)	1,000	200	69	18	26.1%	260
Outside OU1 Lower Aquifer						
Nitrate (as N)	10,000	3,200	71	34	47.9%	4,600

As shown above, parameters that were detected at concentrations greater than RSLs from outside OU1 groundwater samples include cyanide, nitrate, and nitrite in upper aquifer samples; and nitrate in lower aquifer samples.

5. Data Assessment

This section presents GHD's data assessment based on available field investigation results. Section 5.1 includes an assessment of groundwater chemistry data, based on information presented in Section 4. Section 5.2 includes an assessment of potential leaching to groundwater based on available soil/fill data. Data from all of the various RI phases of activity are included.

5.1 Groundwater Chemistry

5.1.1 Volatile Organic Compounds

The analytical results for selected VOCs in groundwater samples are illustrated on Figure 5.1 (upper aquifer) and Figure 5.2 (lower aquifer). Each figure shows the results for VOCs that were detected at concentrations greater than MCLs, or tap water values in cases where MCLs do not exist. The figures include results for each aquifer, based on investigative samples from VAS, boreholes/temporary monitoring wells, and permanent monitoring wells. Figure 5.3 illustrates the results for VAS locations only, showing sample intervals in both the upper and lower aquifers. Note that data are not shown for sample locations where VOCs were not detected at concentrations greater than the criteria noted above.

5.1.1.1 VOC Concentration Contour Maps

As stated in Section 4, the VOCs that were detected at the greatest maximum concentrations and greatest frequency in OU1 groundwater samples include benzene, cis-1,2-DCE, TCE, and vinyl chloride. GHD prepared concentration contour maps for each of these VOCs for the upper aquifer

and lower aquifer, shown on Figures 5.4 through 5.11. The procedure for preparation of the concentration contour maps is summarized as follows:

- Data selection:
  - Analytical results for groundwater samples collected from the current investigation (2017 to 2019) were used and supplemented using results from earlier investigations. All sample results were classified as either upper aquifer or lower aquifer.
  - For monitoring wells the most recent results were used for each individual well location. For BH/TMW locations all available results were used (2013 to 2019).
  - For VAS locations all available results were used with the exception of locations where co-located monitoring wells exist, providing more recent data. For VAS results, the maximum detected concentrations were used for each aquifer (upper and lower).
- Data processing and presentation:
  - The selected data for detected values were used as input. In the case of non-detect results, a non-zero value equal to 10% of the reporting limit was applied.
  - The process of chemical-specific variogram derivation and kriging was performed using Surfer software application (Surfer® 15.5.382 [Golden Software, LLC]). The contour information was transferred to the Site base map to show contour information within the general limits of the data points, and adjusted as appropriate based on technical review.
  - Each figure shows the concentration values that were applied, including non-detect results.

GHD observations regarding VOC distribution as shown on the figures are summarized below.

Benzene

Benzene concentration contour maps are shown on Figure 5.4 (upper aquifer) and Figure 5.5 (lower aquifer). As shown on Figure 5.4, some discrete areas with benzene concentrations greater than the MCL (5 µg/L) in OU1 upper aquifer groundwater are indicated. One area is located at the northeast portion of the Valley Asphalt facility, based on the benzene results for BH33-13 (80 µg/L) and BH46-13 (100 µg/L). The other area is within the central part of OU1 immediately south of the Valley Asphalt facility, including BH77-13 (12 µg/L). One area with benzene concentrations greater than the MCL outside of OU1 adjacent to the DP&L Transportation Building is indicated. Upper aquifer benzene concentrations up to 2,600 µg/L have been detected in this area as shown on Figure 5.1, along with other fuel-related constituents.

As shown on Figure 5.5, based on the most recent sampling results, an area with benzene concentrations greater than the MCL in the lower aquifer is indicated in the area of the DP&L Transportation Building (38 µg/L at MW-220) extending to the west side of Dryden Road (36 µg/L at VAS-35). Benzene was detected at greater concentrations in the lower aquifer based on previous sampling at VAS-26 (up to 360 µg/L) located near the DP&L Transportation Building.

TCE

TCE concentration contour maps are shown on Figure 5.6 (upper aquifer) and Figure 5.7 (lower aquifer). As shown on Figure 5.6, some areas in the upper aquifer with TCE concentrations greater than the MCL (5 µg/L) are indicated within and outside of OU1. One area is located within the Valley Asphalt facility and the others are located along the Dryden Road corridor, summarized as follows:

- At the Valley Asphalt area TCE was detected at multiple locations (VAS-06, BH43-13, BH03-18, VAS-31, BH31-13, BH30-13, and MW-229) with concentrations up to 85 µg/L.
- The second area is located within and adjacent to Parcel 5172. At this area TCE was detected at multiple locations (VAS-8, BH69-13, VAS-34, and BH70-13) at concentrations up to 74 µg/L. This area is interpreted as being contiguous with TCE detections in upper aquifer groundwater at VAS-43 (up to 24 µg/L) located on the east side of Dryden Road at the DP&L facility. TCE was also detected within the DP&L facility at VAS-42 (up to 9 µg/L).
- Two smaller areas are indicated at Parcels 5174 and 5175, where TCE was detected at VAS-15 (up to 18 µg/L) and BH89-13 (11 µg/L). These areas appear to be isolated but are in relatively close proximity to the second area discussed above.
- At the remaining area, located within the unnumbered OU1 parcel at the Site entrance (near the intersection of Dryden Road and East River Road), TCE was detected at multiple locations (VAS-21, BH16-13, BH17-13, BH18-13, and MW-210) at concentrations up to 94 µg/L. This area is interpreted as being contiguous with TCE detections in upper aquifer groundwater at nearby locations outside OU1 (VAS-24, MW-213-VAS, BH11-18, BH12-18, and BH13-18) up to 12 µg/L.

As shown on Figure 5.7, discrete areas in the lower aquifer with TCE concentrations greater than the MCL are indicated within and outside of OU1. One area is located within the Valley Asphalt facility where TCE was detected at VAS-32 (up to 6.9 µg/L). At the other areas, within and adjacent to Parcel 5173, TCE was detected at VAS-9 (up to 220 µg/L), but was not detected at nearby monitoring well MW-215B. TCE was detected at another nearby location, VAS-15 (up to 8.9 µg/L) located within Parcel 5173. In addition, TCE detected at VAS-43 (up to 5.4 µg/L) located on the east side of Dryden Road within the DP&L facility.

Cis-1,2-DCE

Cis-1,2-DCE concentration contour maps are shown on Figure 5.8 (upper aquifer) and Figure 5.9 (lower aquifer). As shown on Figure 5.8, some small discrete areas with cis-1,2-DCE concentrations greater than the MCL (70 µg/L) in OU1 upper aquifer groundwater are indicated. Two of these areas with are located along the Dryden Road corridor including VAS-44 (up to 220 µg/L) at Parcel 5171 and MW-235 (1,100 µg/L) at Parcel 5173. One other area is indicated within the central area of OU1 at VAS-38 (up to 520 µg/L) located north of the Quarry Pond.

As shown on Figure 5.9, two areas with cis-1,2-DCE concentrations greater than the MCL in the lower aquifer are indicated within and outside OU1. The larger area, located along Dryden Road, is based on multiple VAS locations and monitoring wells within OU1 and the DP&L facility. The greatest detected concentration of cis-1,2-DCE within this area is located at VAS-43 (up to 840 µg/L) within the DP&L facility. Other locations within OU1 with cis-1,2-DCE detections greater than the MCL include VAS-9 (up to 88 µg/L) located in Parcel 5171.

Vinyl Chloride

Vinyl chloride concentration contour maps are shown on Figure 5.10 (upper aquifer) and Figure 5.11 (lower aquifer). As shown on Figure 5.10, some areas in the upper aquifer with vinyl chloride concentrations greater than the MCL (2 µg/L) are indicated within OU1, summarized as follows:

- At the northern area, within the Valley Asphalt facility, vinyl chloride was detected at multiple locations with concentrations up to 400 µg/L, at VAS-32. At VAS-44 located on Parcel 5171, vinyl chloride was detected at concentrations up to 250 µg/L. Much lower concentrations of vinyl chloride (approximately 10 µg/L or less) are evident in the area between VAS-32 and VAS-44, and the surrounding area.
- In the central area, vinyl chloride was detected at MW-235 (620 µg/L) located within Parcel 5173, and at BH86-13 (54 µg/L) located nearby within Parcel 5177. Vinyl chloride concentrations at other surrounding locations are generally less than 10 µg/L or not detected. Several smaller areas near Dryden Road with vinyl chloride concentration greater than the MCL are also indicated on Figure 5.10 including VAS-8 (up to 3.4 µg/L), VAS-33 (up to 15 µg/L), and VAS-15B (up to 29 µg/L).
- Other locations within OU1 with vinyl chloride detections greater than the MCL include VAS-11 (up to 5 µg/L) and VAS-38 (up to 270 µg/L, estimated), both located within Parcel 5177. VAS-11 is located near the center of Parcel 5177 and VAS-38 is located north of the Quarry Pond.

As shown on Figure 5.11, vinyl chloride is detected at concentrations greater than the MCL in the lower aquifer at multiple locations within and adjacent to OU1. In general, the greatest concentrations of vinyl chloride within OU1 are detected at locations along the Dryden Road corridor, such as MW-216 (350 µg/L), VAS-34 (up to 110 µg/L), and VAS-35 (up to 190 µg/L). Similar concentrations (>100 µg/L) are observed within lower aquifer samples collected outside OU1 on the east side of Dryden Road, within the DP&L facility. The vinyl chloride detections on either side of Dryden Road are represented as being contiguous as shown on Figure 5.11.

5.1.1.2 Summary of VAS Results

VAS results are illustrated on Figure 5.3, and are used in the development of the VOC concentration contour maps shown on Figures 5.4 through 5.11. Analytical results for detected VOCs for VAS locations are presented in Table 5 of Appendix D. GHD observations regarding the VOC data for VAS locations are discussed below.

VAS locations completed within OU1 include VAS-1, VAS-2, VAS-3, VAS-4, VAS-5, VAS-6, VAS-7, VAS-8, VAS-9, VAS-11, VAS-12, VAS-14, VAS-15, VAS-15B, VAS-17, VAS-19, VAS-21, VAS-21B, VAS-22, VAS-22B, VAS-31, VAS-32, VAS-33, VAS-34, VAS-37, VAS-38, and VAS-44. In general each VAS location was completed to depths of approximately 100 feet BGS or 150 feet BGS[5]. The sample location within OU1 with the greatest total detected VOC concentration[6] is VAS-9 (9,796 µg/L at 27 to 32 feet BGS). VAS-9 is located within Parcel 5173 and was completed in 2008.

[5] VAS locations completed to less than 100 feet BGS in the northern part of OU1 include VAS-2, VAS-4, VAS-6, and VAS-7. VAS-22 was also completed to less than 100 feet BGS and supplemented by VAS-22B to 150 feet BGS.

[6] Based on the sum of detected VOC concentrations for each individual sample interval, as shown in Table 5 of Appendix D.

This area was further investigated by collecting groundwater samples from multiple BH/TMW locations in 2013, and by installation/sampling of monitoring wells (see Section 5.1.1.3). The next greatest total detected VOC concentrations within OU1 are found at VAS-38 (828 µg/L at 45 to 50 feet BGS), VAS-21b (580 µg/L at 97 to 102 feet BGS), and VAS-14 (513 µg/L at 60 to 65 feet BGS). At the remaining VAS locations within OU1, the maximum total detected VOC concentrations are all less than 500 µg/L. The VAS data demonstrate significant decreases in total VOC concentrations with depth. For example, at VAS-9, the total VOC concentration in the deepest sample interval (92 to 97 feet BGS) is 50.2 µg/L, compared to the maximum value of 9,796 µg/L (27 to 32 feet BGS) noted above. At all other VAS locations within OU1, the maximum total VOC concentration in the deepest sample intervals is 32 µg/L, with the exception of VAS-33 where the maximum value of 90 µg/L is found at the deepest sample interval.

VAS locations completed outside OU1 include MW-213-VAS, VAS-13, VAS-20, VAS-23, VAS-24, VAS-25, VAS-26, VAS-27, VAS-28, VAS-29, VAS-30, VAS-35, VAS-36, VAS-39, VAS-40, VAS-42, and VAS-43. With the exception of VAS-20, each VAS was completed to depths of approximately 100 feet BGS, 150 feet BGS or 200 feet BGS. VAS-20 was completed to 57 feet BGS. The sample locations outside OU1 with the greatest total detected VOC concentrations are VAS-26 (11,756 µg/L at 46 to 51 feet BGS) and VAS-35 (12,090 µg/L at 50 to 60 feet BGS). VAS-26 is located adjacent to the Transportation Building, within the DP&L facility. VAS-35 is located southeast of VAS-26, on the opposite side of Dryden Road. The next greatest total detected VOC concentrations outside OU1 are found at VAS-27 (509 µg/L at 81 to 86 feet BGS), VAS-29 (490 µg/L at 96 to 106 feet BGS), VAS-42 (650 µg/L at 80 to 90 feet BGS), and VAS-43 (913 µg/L at 70 to 80 feet BGS); all located within the DP&L facility. At the remaining VAS locations outside OU1, the maximum total detected VOC concentrations are all less than 200 µg/L. Consistent with the OU1 results, the VAS data outside OU1 demonstrate significant decreases in total VOC concentrations with depth. For example, at VAS-35, the total VOC concentration in the deepest sample interval (140 to 150 feet BGS) is 147 µg/L, compared to the maximum value of 12,090 µg/L (50 to 60 feet BGS) noted above. At all other VAS locations outside OU1, the maximum total VOC concentration in the deepest sample intervals is 38.8 µg/L, with the exception of VAS-27 (191 µg/L at 96 to 101 feet BGS).

Figure 5.3 shows the VAS results for VOCs that were detected at concentrations greater than MCLs, or tap water values in cases where MCLs do not exist. Based on inspection of Figure 5.3, it is evident that some VOCs (primarily vinyl chloride) are detected at concentrations greater than respective MCL at depth in various VAS locations within OU1 and outside OU1. The presence of vinyl chloride in the lower aquifer is reflected in the concentration contour map shown on Figure 5.11.

VOCs were not detected at concentration greater than MCLs in any sample intervals at multiple locations within OU1 including VAS-1, VAS-3, VAS-4, VAS-5, and VAS-37. Also, VOCs were not detected at concentrations greater than MCLs outside OU1 at the periphery of the Quarry Pond (VAS-13, VAS-20, VAS-23, and VAS-39); nor at VAS-40 located at the north side of the DP&L facility.

5.1.1.3 Summary of Monitoring Well Results

Monitoring wells results are illustrated on Figure 5.1 (upper aquifer) and Figure 5.2 (lower aquifer). VOC analytical results for monitoring well groundwater samples are presented in Appendix D, in the tables listed below.

- Appendix D – Table 6: Analytical Results for Monitoring Well Groundwater Samples – OU1 Detected VOCs
- Appendix D – Table 7: Analytical Results for Monitoring Well Groundwater Samples – Outside OU1 Detected VOCs

Each table includes analytical results for samples collected during the current RI program and earlier investigation results. The tables also show USEPA RSLs and indicate the detected values that are greater than the RSLs.

GHD observations regarding the VOC data for monitoring well locations are discussed below.

OU1 Upper Aquifer

Upper aquifer monitoring wells located within OU1 include: MW-101A, MW-202, MW-203, MW-204, MW-208, MW-209, MW-210, MW-212, MW-215A, MW-217, MW-219, MW-225, MW-227, MW-228[7], MW-229, MW-230, MW-233, and MW-235. Monitoring well locations are shown on Figure 5.1 with analytical results for VOCs that were detected at concentrations greater than MCLs, or tap water values in cases where MCLs do not exist. Based on inspection of Figure 5.1, VOCs were detected in multiple monitoring wells over time at concentrations greater than MCLs. The most recent sampling results indicate four locations (out of 18) where individual VOC concentrations are greater than MCLs, summarized as follows:

- MW-210 is located within the unnumbered parcel near the Site entrance from Dryden Road. MW-210 has been sampled multiple times since 1996, most recently in October 2017. TCE concentrations have decreased from up to 260 µg/L in 2008 and earlier, to 47 µg/L in 2017. Other detected VOCs include cis-1,2-DCE (12 µg/L in 2017).
- MW-228 (now abandoned) was located in the Valley Asphalt facility. MW-228 was sampled once (April 2010) and vinyl chloride was detected at a concentration of 6.3 µg/L. Other detected VOCs include 1,1-DCA (2 µg/L, estimated) and cis-1,2-DCE (1.6 µg/L).
- MW-229 is located within the Valley Asphalt facility. MW-229 was sampled twice (April 2010 and May 2015). TCE was detected in April 2010 (70 µg/L) and May 2015 (85 µg/L and 73 µg/L in the duplicate sample). Other detected VOCs include cis-1,2-DCE (up to 12 µg/L).
- MW-235 is located near VAS-9, within Parcel 5173. MW-235 was installed and sampled in 2018. Detected VOCs include cis-1,2-DCE (1,100 µg/L) and vinyl chloride (620 µg/L).

[7] MW-228 was abandoned in February 2019 as discussed in Section 2.2.2.1.

As indicated above, VOCs were not detected at concentrations greater than MCLs at the 14 other OU1 upper aquifer monitoring wells. Some VOCs are detected at concentrations greater than RSLs for tap water as shown in the Appendix D tables.

OU1 Lower Aquifer

Lower aquifer monitoring wells located within OU1 include: MW-209A, MW-210A, MW-210B, MW-215B, and MW-216. Monitoring well locations are shown on Figure 5.2 with analytical results for VOCs that were detected at concentrations greater than MCLs, or tap water values in cases where MCLs do not exist. Based on inspection of Figure 5.2, VOCs were detected in each monitoring well at concentrations greater than MCLs, summarized as follows:

- MW-209A is located in the southern part of OU1 near the northeast corner of the Quarry Pond. Vinyl chloride is detected at concentrations greater than the MCL, decreasing from 19 µg/L in 2009 to 3.8 µg/L in 2018. Other detected VOCs include cis-1,2-DCE (up to 1.9 µg/L).
- MW-210A is located within the unnumbered parcel near the Site entrance from Dryden Road. Vinyl chloride is detected at concentrations greater than the MCL, decreasing from 55 µg/L (estimated) in 2009 to 24 µg/L in 2017. Other detected VOCs include cis-1,2-DCE (up to 1.5 µg/L).
- MW-210B is located adjacent to MW-210A. Benzene was detected at concentrations greater than the MCL, up to 1,100 µg/L in 2009, decreasing to 4 µg/L in 2017. No other VOCs were detected.
- MW-215B is located in the central portion of OU1, within Parcel 5173. Vinyl chloride is detected at concentrations greater than the MCL, 6.2 µg/L in 2009 and 5.4 µg/L in 2015. Other detected VOCs include 1,1-DCA (up to 1.2 µg/L), cis-1,2-DCE (up to 35 µg/L), and trans-1,2-DCE (up to 0.23 µg/L, estimated).
- MW-216 is located in the northern portion of OU1, within Parcel 5171, adjacent to Dryden Road. Cis-1,2-DCE and vinyl chloride are detected at concentrations greater than MCLs. The concentrations of cis-1,2-DCE decreased from 650 µg/L in 2010 to 480 µg/L in 2015. Conversely, vinyl chloride concentrations increased from 92 µg/L (estimated) in 2010 to 350 µg/L in 2015. Other detected VOCs include trans-1,2-DCE (up to 5.9 µg/L (estimated).

Outside OU1 Upper Aquifer

Upper aquifer monitoring wells located outside OU1 include the following:

- MW-102, MW-103, MW-201, MW-206, MW-207, and MW-226, located in the GMR floodplain adjacent to OU1.
- MW-218A and MW-234, located along the southern side of the Quarry Pond.
- MW-104, located adjacent to the DP&L facility[8].
- MW-222A, MW-223A, and MW-224A, located within the DP&L facility[9].

[8] MW-104 could not be located during the September 2019 site visit and may no longer exist.

[9] Other monitoring wells installed by DP&L exist within the DP&L facility including but not limited to GW-2, GW-3, GW-5, GW-6, GW-7, GW-8, MW-1, MW-3, MW-4, MW-5, MW-A, and MW-B.

Monitoring well locations are shown on Figure 5.1 with analytical results for VOCs that were detected at concentrations greater than MCLs, or tap water values in cases where MCLs do not exist. Based on inspection of Figure 5.1, VOCs were previously detected (prior to 2008) in three monitoring wells (MW-102, MW-103, and MW-201) at concentrations greater than MCLs. Based on the most recent sampling results, no VOCs are detected at concentrations greater than MCLs at any of the monitoring wells listed above. Some VOCs are detected at concentrations greater than RSLs for tap water as shown in the Appendix D tables.

Outside OU1 Lower Aquifer

Lower aquifer monitoring wells located outside OU1 include the following:

- MW-214 and MW-218B, located beyond the southern boundary of OU1, near the Quarry Pond.
- MW-220[10], MW-221, MW-222, MW223B, and MW-224B, located within the DP&L facility.

Monitoring well locations are shown on Figure 5.2 with analytical results for VOCs that were detected at concentrations greater than MCLs, or tap water values in cases where MCLs do not exist. Based on inspection of Figure 5.2, no VOCs have been detected at MW-214 or MW-218B at concentrations greater than MCLs. Both wells are located beyond the southern boundary of OU1. MW-214 is located within Parcel 3261, near the southeast corner of the Quarry Pond. MW-218B is located within Parcel 3274, near the southwest corner of the Quarry Pond. The detected VOCs at these wells include vinyl chloride (up to 1.2 µg/L) at MW-214, and 1,2-dibromo-3-chloropropane (0.011 µg/L, estimated) at MW-218B.

As noted above, five lower aquifer monitoring wells are located within the DP&L facility. VOC monitoring results are summarized by the following:

- MW-220 is located near the Transportation Building. VOCs detected at concentrations greater than MCLs include benzene (up to 38 µg/L), cis-1,2-DCE (up to 86 µg/L), and vinyl chloride (up to 41 µg/L).
- MW-221 is located near the southwest corner of the Service Building. VOCs detected at concentrations greater than MCLs include cis-1,2-DCE (up to 440 µg/L), methylene chloride (up to 9.1 µg/L, estimated), and vinyl chloride (up to 110 µg/L). The results indicate that concentrations of cis-1,2-DCE decreased and concentrations of vinyl chloride have increased over time (from 2010 to 2015).
- MW-222 is located near the northwest corner of the Service Building. VOCs detected at concentrations greater than MCLs include vinyl chloride (up to 5.6 µg/L).
- MW-223B is located on the east side of the Service Building. VOCs detected at concentrations greater than MCLs include cis-1,2-DCE (up to 170 µg/L), and vinyl chloride (up to 98 µg/L). The results indicate that the VOC concentrations decreased from 2010 to 2018.
- MW-224B is located at the north side of the DP&L facility. No VOCs were detected at concentrations greater than MCLs.

[10] MW-220 is not accessible after being erroneously plugged by DP&L in 2018.

5.1.1.4 Vapor Intrusion Screening

VOC analytical results for upper aquifer groundwater samples are presented in Appendix D, in the tables listed below.

- Appendix D – Table 8: Analytical Results for Groundwater Samples – OU1 Upper Aquifer VOCs
- Appendix D – Table 9: Analytical Results for Groundwater Samples – Outside OU1 Upper Aquifer VOCs

Each table includes analytical results for samples collected during the current RI program and earlier investigation results. The tables also show USEPA Vapor Intrusion Screening Levels (VISLs) and indicate the detected values that are greater than the VISLs. Note that the VISL comparison is conservatively applied to all sample intervals within the upper aquifer, regardless of depth below the water table.

The VOCs that were detected at concentrations greater than VISLs are listed below.

VOCs	Residential VISL (µg/L)	Commercial VISL (µg/L)	# of samples	# of detects	Detection frequency	Max. detect (µg/L)
OU1 Upper Aquifer						
1,1-Dichloroethane	7.64	33.4	349	111	31.8%	39
1,2-Dichloroethane	2.24	9.78	349	4	1.1%	34
1,4-Dichlorobenzene	2.59	11.3	280	19	6.8%	5.6
Benzene	1.59	6.93	349	71	20.3%	100
Bromodichloromethane	0.876	3.82	280	5	1.8%	1.3
Chlorobenzene	41	172	349	74	21.2%	130
Chloroform	0.814	3.55	280	23	8.2%	3.1
Ethylbenzene	3.49	15.2	280	47	16.8%	100
TCE	0.518	2.18	349	161	46.1%	5,100
Vinyl chloride	0.147	2.45	349	130	37.2%	760
Xylenes (total)	38.5	162	349	44	12.6%	190
Outside OU1 Upper Aquifer						
Benzene	1.59	6.93	213	43	20.2%	2,600
Chloroform	0.814	3.55	168	35	20.8%	6.6
Cyclohexane	102	429	165	62	37.6%	620
Ethylbenzene	3.49	15.2	168	48	28.6%	2,500
Isopropyl benzene	88.7	373	165	30	18.2%	120
Toluene	1,920	8,070	213	107	50.2%	3,600
TCE	0.518	2.18	213	94	44.1%	24
Vinyl chloride	0.147	2.45	213	1	0.5%	0.32
Xylenes (total)	38.5	162	213	47	22.1%	13,000

As shown above 11 VOCs in OU1 upper aquifer samples, and 9 VOCs in outside OU1 upper aquifer samples, were detected at concentrations greater than VISLs. The VOCs detected at the greatest concentrations and frequency in the OU1 upper aquifer samples include TCE (up to 5,100 µg/L) and vinyl chloride (up to 760 µg/L). The VOCs detected at the greatest concentrations in the outside OU1 upper aquifer samples include benzene (up to 2,600 µg/L), ethylbenzene (up to 2,500 µg/L), toluene

(up to 3,600 µg/L), and xylenes (up to 13,000 µg/L). The VOCs detected at the greatest frequency in outside OU1 upper aquifer samples are toluene, TCE, and cyclohexane.

As stated above, the VOCs detected at the greatest maximum concentrations and greatest frequency in OU1 upper aquifer groundwater samples include TCE and vinyl chloride. Conversely, the outside OU1 samples exhibit the presence of greater concentrations of benzene, toluene, ethylbenzene, and xylenes (BTEX) and other fuel substances related to off-Site sources[11], and much lower concentrations of TCE and vinyl chloride.

The upper aquifer VOC concentration contour maps for benzene (Figure 5.4), TCE (Figure 5.6), and vinyl chloride (Figure 5.10) illustrate areas with contour values greater than VISLs.

5.1.2 Semi-volatile Organic Compounds

SVOCs were generally not detected at concentrations greater than RSLs in groundwater samples collected within OU1 (see Section 4.1.2) or outside OU1 (see Section 4.2.2).

The SVOCs detected at the greatest concentrations and frequencies within OU1 upper aquifer groundwater include 2-Methylnaphthalene (up to 56 µg/L), bis(2-Ethylhexyl)phthalate (up to 160 µg/L), and Naphthalene (up to 17 µg/L). SVOCs were not detected in any OU1 lower aquifer samples at concentrations greater than RSLs. Within OU1, SVOC detections are sporadic and hence not indicative of any discernible pattern of SVOC presence in groundwater.

The SVOCs detected at the greatest concentrations and frequencies in groundwater samples collected outside OU1 include the following:

- Outside OU1 upper aquifer: 2-Methylnaphthalene (up to 190 µg/L) and Naphthalene (up to 250 µg/L).
- Outside OU1 lower aquifer: 2-Methylnaphthalene (up to 110 µg/L) and Naphthalene (up to 250 µg/L).

As indicated above, the greatest maximum detected concentrations of 2-Methylnaphthalene and Naphthalene are found in samples collected outside OU1. Based on inspection of the analytical results provided in Appendix D, the greatest concentrations of these SVOCs occur at locations adjacent to the DP&L Transportation Building including GW-5, GW-6, MW-A, MW-B, and BH18-13; and at VAS-35 located on the opposite (west) side of Dryden Road. These results are indicative of the presence of fuel-related substances in groundwater originating at the DP&L facility.

5.1.3 Metals

Analytical results for metals, presented in Section 4, indicate that many parameters were frequently detected in upper and lower aquifer groundwater samples, within OU1 and outside OU1. In general, the presence of metals in groundwater samples is a common occurrence, potentially related to anthropogenic and non-anthropogenic sources.

[11] The greatest concentrations of BTEX and other substances are found at sample locations near the Transportation Building within the DP&L facility, e.g., GW-5, GW-6, MW-A, MW-B, and VAS-26.

The metals that are detected at concentrations greater than MCLs, as discussed in Section 4.1.3 (OU1) and Section 4.2.3 (outside OU1) are listed below (designated with 'X').

	OU1 upper aquifer	OU1 lower aquifer	Outside OU1 upper aquifer	Outside OU1 lower aquifer
Antimony	X			
Arsenic	X	X	X	X
Arsenic (dissolved)	X	X	X	X
Barium	X	X	X	
Barium (dissolved)	X		X	
Beryllium	X	X	X	
Cadmium	X			
Chromium	X	X	X	X
Copper	X			
Lead	X	X	X	X
Lead (dissolved)	X	X	X	X
Selenium			X	
Selenium (dissolved)			X	
Thallium	X	X	X	
Thallium (dissolved)	X			

GHD observations regarding the analytical results for the metals listed above are summarized by the following:

- Antimony is detected at concentrations greater than the MCL (6 µg/L) in OU1 upper aquifer samples only (up to 23 µg/L). The dissolved antimony concentrations in all samples (up to 5.6 µg/L) are less than the MCL.
- Arsenic is detected at concentrations greater than the MCL (10 µg/L) within and outside OU1, in both upper and lower aquifers. The maximum detected concentrations are: OU1 upper aquifer (3,200 µg/L); OU1 lower aquifer (1,030 µg/L); outside OU1 upper aquifer (860 µg/L); and outside OU1 lower aquifer (221 µg/L). These values generally indicate that arsenic concentrations decrease at greater depths. The results for dissolved arsenic also indicate that arsenic concentrations decrease with depth. The maximum detected concentrations of dissolved arsenic are: OU1 upper aquifer (230 µg/L); OU1 lower aquifer (38 µg/L); outside OU1 upper aquifer (240 µg/L); and outside OU1 lower aquifer (10.7 µg/L).
- Barium is detected at concentrations greater than the MCL (2,000 µg/L) within OU1 (upper and lower aquifer) and outside OU1 (upper aquifer). The maximum detected concentrations are: OU1 upper aquifer (5,000 µg/L); OU1 lower aquifer (2,200 µg/L); outside OU1 upper aquifer (21,000 µg/L); and outside OU1 lower aquifer (1,200 µg/L). These values generally indicate that barium concentrations decrease at greater depths. The results for dissolved barium also indicate that barium concentrations decrease with depth. The maximum detected concentrations of dissolved barium are: OU1 upper aquifer (5,200 µg/L); OU1 lower aquifer (737 µg/L); outside OU1 upper aquifer (8,300 µg/L); and outside OU1 lower aquifer (1,200 µg/L). The dissolved barium concentrations in lower aquifer samples are less than the MCL.
- Beryllium is detected at concentrations greater than the MCL (4 µg/L) within OU1 (upper and lower aquifer) and outside OU1 (upper aquifer). The maximum detected concentrations are:

OU1 upper aquifer (4.3 µg/L); OU1 lower aquifer (5.4 µg/L); outside OU1 upper aquifer (12 µg/L); and outside OU1 lower aquifer (3.4 µg/L). The dissolved beryllium concentrations in all samples (up to 1.6 µg/L) are less than the MCL.

- Cadmium is detected at concentrations greater than the MCL (5 µg/L) in OU1 upper aquifer samples only (up to 14 µg/L). The dissolved cadmium concentrations in all samples (up to 0.78 µg/L) are less than the MCL.
- Chromium is detected at concentrations greater than the MCL (100 µg/L) within and outside OU1, in both upper and lower aquifers. The maximum detected concentrations are: OU1 upper aquifer (610 µg/L); OU1 lower aquifer (300 µg/L); outside OU1 upper aquifer (510 µg/L); and outside OU1 lower aquifer (110 µg/L). These values generally indicate that chromium concentrations decrease at greater depths. The dissolved chromium concentrations in all samples (up to 93 µg/L) are less than the MCL.
- Copper is detected at concentrations greater than the MCL (1,300 µg/L) in OU1 upper aquifer samples only (up to 1,900 µg/L). The dissolved copper concentrations in all samples (up to 66 µg/L) are less than the MCL.
- Lead is detected at concentrations greater than the MCL (15 µg/L) within and outside OU1, in both upper and lower aquifers. The maximum detected concentrations are: OU1 upper aquifer (1,940 µg/L); OU1 lower aquifer (320 µg/L); outside OU1 upper aquifer (330 µg/L); and outside OU1 lower aquifer (392 µg/L). The maximum detected concentrations of dissolved lead are: OU1 upper aquifer (20 µg/L); OU1 lower aquifer (17 µg/L); outside OU1 upper aquifer (53 µg/L); and outside OU1 lower aquifer (16 µg/L).
- Selenium is detected at concentrations greater than the MCL (50 µg/L) in outside OU1 upper aquifer samples only (up to 60 µg/L), total and dissolved. The selenium concentrations in all OU1 samples (up to 26.3 µg/L) are less than the MCL.
- Thallium is detected at concentrations greater than the MCL (2 µg/L) within OU1 (upper and lower aquifer) and outside OU1 (upper aquifer). The maximum detected concentrations are: OU1 upper aquifer (4.4 µg/L); OU1 lower aquifer (3 µg/L); outside OU1 upper aquifer (5.4 µg/L); and outside OU1 lower aquifer (1.5 µg/L). The dissolved thallium concentrations in OU1 upper aquifer samples (up to 6.7 µg/L) is also greater than the MCL. The dissolved thallium concentration in all other samples (up to 1.5 µg/L) are less than the MCL.

As indicated above, the metals that are most prevalent in terms of concentrations compared to MCLs and spatial distribution include arsenic, barium, chromium, and lead.

5.1.4 Other Parameters

As discussed in Sections 4.1 and 4.2, PCBs and pesticides were generally not detected in groundwater samples within and outside of OU1, and herbicides were not detected. The results do not indicate any discernible pattern of presence of these substances in groundwater.

5.2 OU1 Soil/Fill

This section presents analytical results for soil/fill samples collected from OU1 with comparison to USEPA Soil Screening Levels (SSLs).

Analytical results for soil/fill samples collected from OU1 areas are included in Appendix E subdivided by Site area. Appendix E – Table 1 includes the results for soil/fill samples collected from the Southern Area. Appendix E – Table 2 includes the results for soil/fill samples collected from the Central and Northern Areas. Each table includes results for samples collected during the current RI program (2017 to present), and earlier investigation results. Sample locations are shown on Figure 2.1.

Tables 5.1 and 5.2 provide information for each detected parameter (risk-based SSL, MCL-based SSL, number of samples, number of detects, minimum detected concentration, and maximum detected concentration) for each area (derived from the tables included in Appendix E).

As shown in Tables 5.1 and 5.2, multiple parameters were detected in soil/fill samples with maximum concentrations greater than SSLs. The soil/fill data are summarized below, with observations regarding OU1 upper aquifer groundwater analytical results summarized in Table 5.3 (southern area) and Table 5.4 (central and northern area).

Southern Area

- VOCs (11 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: 1,1,1-TCA, 1,4-Dichlorobenzene, Benzene, Carbon disulfide, cis-1,2-DCE, Ethylbenzene, Isopropyl benzene, Methylene chloride, PCE, Toluene, and Xylenes. Of these VOCs, toluene was the most frequently detected, in 14% of samples, and the other VOCs were detected in fewer than 10% of samples. Eight VOCs were detected in OU1 upper aquifer groundwater samples from the southern area (see Table 5.3). Three VOCs (methylene chloride, TCE, and vinyl chloride) were detected at concentrations greater than RSLs. One VOC (methylene chloride) was detected at a concentration greater than the MCL.
- SVOCs (24 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: 2-Methylnaphthalene, Acenaphthene, Acetophenone, Anthracene, Benzaldehyde, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Biphenyl, bis(2-Ethylhexyl)phthalate, Caprolactam, Chrysene, Dibenz(a,h)anthracene, Dibenzofuran, Di-n-butylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Indeno(1,2,3-cd)pyrene, Isophorone, Naphthalene, Pentachlorophenol, and Pyrene. PAHs are the most frequently detected SVOC parameters. Fifteen SVOCs were detected in OU1 upper aquifer groundwater samples from the southern area (see Table 5.3). ---Three SVOCs (Benzo(a)anthracene, Benzo(a)pyrene, and Benzo(b)fluoranthene) were detected at concentrations greater than RSLs. One SVOC (Benzo(a)pyrene) was detected at a concentration greater than the MCL.
- Metals (19 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium VI (hexavalent), Cobalt, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc. Most of these metals were detected in all samples, and all were detected in at least 80% of samples, with the exception of Chromium VI (41%). Seventeen metals were detected in OU1 upper aquifer groundwater samples from the southern area (see Table 5.3). Seven metals (Arsenic, Barium, Cobalt, Iron, Lead, Manganese, and Thallium) were detected at concentrations greater than RSLs. Three metals (Arsenic, Lead, and Thallium) were detected at concentrations greater than MCLs.

- PCBs (4 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: PCB-1242, PCB-1248, PCB-1254, and PCB-1260. Of these, PCB-1254 was the most frequently detected, in 21% of samples, and the others were detected in fewer than 5% of samples. PCBs were not detected in any OU1 upper aquifer groundwater samples from the southern area (see Table 5.3).
- Pesticides (7 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: 4,4'-DDD, 4,4'-DDE, beta-BHC, Dieldrin, Endrin, gamma-BHC (lindane), and Heptachlor epoxide. All of these were detected in fewer than 10% of samples. Pesticides were not detected in any OU1 upper aquifer groundwater samples from the southern area (see Table 5.3).
- Other parameters detected in one or more soil/fill samples with maximum concentrations greater than SSLs include Cyanide, in 29% of samples. Cyanide was not detected in any OU1 upper aquifer groundwater samples from the southern area (see Table 5.3).

In summary, the soil/fill data for the southern area indicates multiple parameters (66 total) with maximum detected concentrations greater than SSLs. In comparison, only 23 parameters were detected in OU1 upper aquifer groundwater samples with maximum detected concentrations greater than RSLs.

Central and Northern Area

- VOCs (29 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: 1,1,1-TCA, 1,1,2-Trichloroethane, 1,1-DCA, 1,1-DCE, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,2-DCA, 1,2-Dichloropropane, 1,4-Dichlorobenzene, 2-Butanone, 4-Methyl-2-pentanone, Acetone, Benzene, Carbon disulfide, Carbon tetrachloride, Chlorobenzene, Chloroform, cis-1,2-DCE, Cyclohexane, Ethylbenzene, Isopropyl benzene, Methyl acetate, Methylene chloride, PCE, Toluene, trans-1,2-DCE, TCE, Vinyl chloride, and Xylenes. Of these VOCs, toluene and TCE were the most frequently detected, in 43% and 34% of samples respectively. Forty-one VOCs were detected in OU1 upper aquifer groundwater samples from the central and northern areas (see Table 5.4). Seventeen VOCs (1,1-DCA, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane,1,2-DCA, 1,4-Dichlorobenzene, Benzene, Bromodichloromethane, Chlorobenzene, Chloroform, cis-1,2-DCE, Ethylbenzene, Methylene chloride, PCE, Toluene, TCE, Vinyl chloride, and Xylenes) were detected at concentrations greater than RSLs. Seven VOCs (1,2-DCA, benzene, chlorobenzene, cis-1,2-DCE, methylene chloride, TCE, and vinyl chloride) were detected at concentrations greater than MCLs.
- SVOCs (21 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: 2-Methylnaphthalene, Acenaphthene, Acetophenone, Anthracene, Benzaldehyde, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Biphenyl, bis(2-Ethylhexyl)phthalate, Chrysene, Dibenz(a,h)anthracene, Dibenzofuran, Di-n-butylphthalate, Fluoranthene, Fluorene, Indeno(1,2,3-cd)pyrene, Naphthalene, Phenol, and Pyrene. PAHs are the most frequently detected SVOC parameters. Twenty-seven SVOCs were detected in OU1 upper aquifer groundwater samples (see Table 5.4). Ten SVOCs (2-Methylnaphthalene, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Biphenyl, bis(2-Ethylhexyl)phthalate, Dibenz(a,h)anthracene, Dibenzofuran, Indeno(1,2,3-cd)pyrene, and Naphthalene) were detected at concentrations

greater than RSLs. Two SVOCs (Benzo(a)pyrene and bis(2-Ethylhexyl)phthalate) were detected at concentrations greater than MCLs.

- Metals (19 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include: Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium VI (hexavalent), Cobalt, Copper, Iron, Lead, Manganese, Mercury, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc. Most of these metals were detected in all samples, and all were detected in at least 80% of samples, with the exception of Chromium VI (27%). Twenty-three metals were detected in OU1 upper aquifer groundwater samples from the central and northern areas (see Table 5.4). Seventeen metals (Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Thallium, Vanadium, and Zinc) were detected at concentrations greater than RSLs. Nine metals (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, and Thallium) were detected at concentrations greater than MCLs. Note that chromium was detected in OU1 upper aquifer groundwater samples at concentrations greater than the MCL, but was not detected is soil/fill samples at concentrations greater than SSLs.
- PCBs (2 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include PCB-1254 and PCB-1260, in 43% and 15% of samples, respectively. Both of the above PCBs (PCB-1254 and PCB-1260) and PCB-1242 were detected in OU1 upper aquifer groundwater samples from the central and northern areas (see Table 5.4), each with concentrations greater than RSLs.
- Pesticides (2 total) detected in one or more soil/fill samples with maximum concentrations greater than SSLs include 4,4'-DDE and 4,4'-DDT, in 18% and 15% of samples, respectively. Three pesticides (alpha-BHC, beta-BHC, and heptachlor) were detected in OU1 upper aquifer groundwater samples from the central and northern areas (see Table 5.4) at concentrations greater than RSLs.
- Other parameters detected in one or more soil/fill samples with maximum concentrations greater than SSLs include 2,3,7,8-TCDD (in 61% of samples) and Cyanide (in 43% of samples). Cyanide was detected in OU1 upper aquifer groundwater samples from the central and northern areas (see Table 5.4) at concentrations greater than RSLs, and 2,3,7,8-TCDD was not analyzed.

In summary, the soil/fill data for the central and northern areas indicates multiple parameters (74 total) with maximum detected concentrations greater than SSLs. In comparison, 50 parameters were detected in OU1 upper aquifer groundwater samples with maximum detected concentrations greater than RSLs.

6. Proposed Work

Groundwater conditions within and outside OU1 have been extensively investigated through completion of VAS, BH/TMWs, and monitoring well installation and sampling. As discussed in preceding sections, the groundwater assessment is primarily focused on VOCs, due to their prevalence and/or potential mobility in groundwater, and considering that other organic compounds are sporadically detected and much less mobile than VOCs. Various discrete areas of VOCs,

primarily TCE and vinyl chloride in OU1 upper aquifer groundwater are indicated by the concentration maps presented in Section 5. The VOC data for the lower aquifer suggests a broader distribution of vinyl chloride, and cis-1,2-DCE to a lesser extent, centered around the Dryden Road corridor and the DP&L facility. Metals are also broadly distributed within the upper and lower aquifers, but the pattern of metals distribution is distinctly different than the VOC distribution, requiring further assessment.

Based on review of the VOC distribution noted above, additional monitoring well installations are proposed at specific locations (subject to property access approval and logistics). Proposed monitoring well locations are shown on Figure 6.1 and described in Table 6.1 below.

Table 6.1 Summary of Proposed Monitoring Well Locations

Proposed Location (see Figure 6.1)	Existing location	Notes regarding existing data	Proposed location details and rationale
Northern Area			
N-1	VAS-32	Greatest total detected VOC concentration (483 µg/L) found at 45 to 50 feet BGS	Install UA well (45 to 50 feet BGS) offset to the north of VAS-32 (due to Valley Asphalt operations) to monitor potential VOC migration north toward OU1 boundary (EU17)
N-2	VAS-44	Greatest total detected VOC concentration (470 µg/L) found at 40 to 45 feet BGS	Install UA well (40 to 45 feet BGS) to monitor conditions along eastern OU1 boundary (EU15)
N-3	VAS-34	Greatest total detected VOC concentration (198 µg/L) found at 70 to 80 feet BGS	Install LA well (70 to 80 feet BGS) to monitor conditions along the OU1 boundary (EU14)
N-4	VAS-2 and MW-217	VOCs detected, generally less than 5 µg/L. MW-217 screened at 45 to 50 feet BGS	Install LA well (approx. 70 to 80 feet BGS) to provide water quality and water level data in lower aquifer along west side of OU1 (EU16)
Central Area			
C-1	VAS-38	Greatest total detected VOC concentration (828 µg/L) found at 45 to 50 feet BGS	Install UA well (45 to 50 feet BGS) to monitor conditions adjacent to and north of Quarry Pond (EU19)
C-2	VAS-12 and MW-233	Greatest total detected VOC concentration (29 µg/L) found at 20 to 25 feet BGS. MW-233 screened at 22 to 32 feet BGS.	Install LA well (approx. 70 to 80 feet BGS) to provide water quality and water level data in lower aquifer along west side of OU1 (EU19)
C-3	VAS-37	Greatest total detected VOC concentration (163 µg/L) found at 25 to 30 feet BGS	Install shallow well (approx. 25 feet BGS) to provide water quality and water level data in central area (EU19)
C-4	VAS-35	Greatest total detected VOC concentrations found at 50 to 60 feet BGS (12,090 µg/L). Vinyl chloride detected up to 190 µg/L from 130 to 140 feet BGS.	Install two LA wells (50 to 60 feet BGS and 130 to 140 feet BGS) to monitor conditions at the eastern OU1 boundary (EU11)

Table 6.1 Summary of Proposed Monitoring Well Locations

Proposed Location (see Figure 6.1)	Existing location	Notes regarding existing data	Proposed location details and rationale
Outside OU1			
OS-1	Various	TCE and vinyl chloride detected >MCL within OU1 (see Figure 5.6 and Figure 5.10)	Install UA well at water table (~10 to 20 feet BGS) to monitor conditions adjacent to OU1 in GMR floodplain
OS-2	VAS-39	No VOCs detected >MCLs. TCE detected (up to 2.8 µg/L) at 30 to 40 feet BGS.	Install UA well (30 to 40 feet BGS) to monitor conditions adjacent to Quarry Pond in GMR floodplain
OS-3	MW-213-VAS	Greatest total detected VOC concentration (32 µg/L) found at 67 to 72 feet BGS. TCE presence sporadic but generally not detected above 47 feet BGS.	Install UA well at water table (~20 to 30 feet BGS) to monitor groundwater conditions and potential TCE presence
OS-4	BH13-18	TCE detected >MCL within and outside OU1 (see Figure 5.6)	Install UA well at water table (~20 to 30 feet BGS) to monitor TCE impacted groundwater at East Road properties
OS-5	BH19-18	No VOCs detected >MCLs	Install UA well at the water table (~20 to 30 feet BGS) to monitor conditions at East River Road properties

One synoptic round of groundwater sampling is proposed for all new and existing monitoring wells, with laboratory analysis for VOCs - Target Compound List (TCL) and Method SW-846 8011; SVOCs; Target Analyte List (TAL) metals including mercury (total and dissolved); major anions (chloride, nitrate, nitrite, sulfate); and cyanide.

7. References

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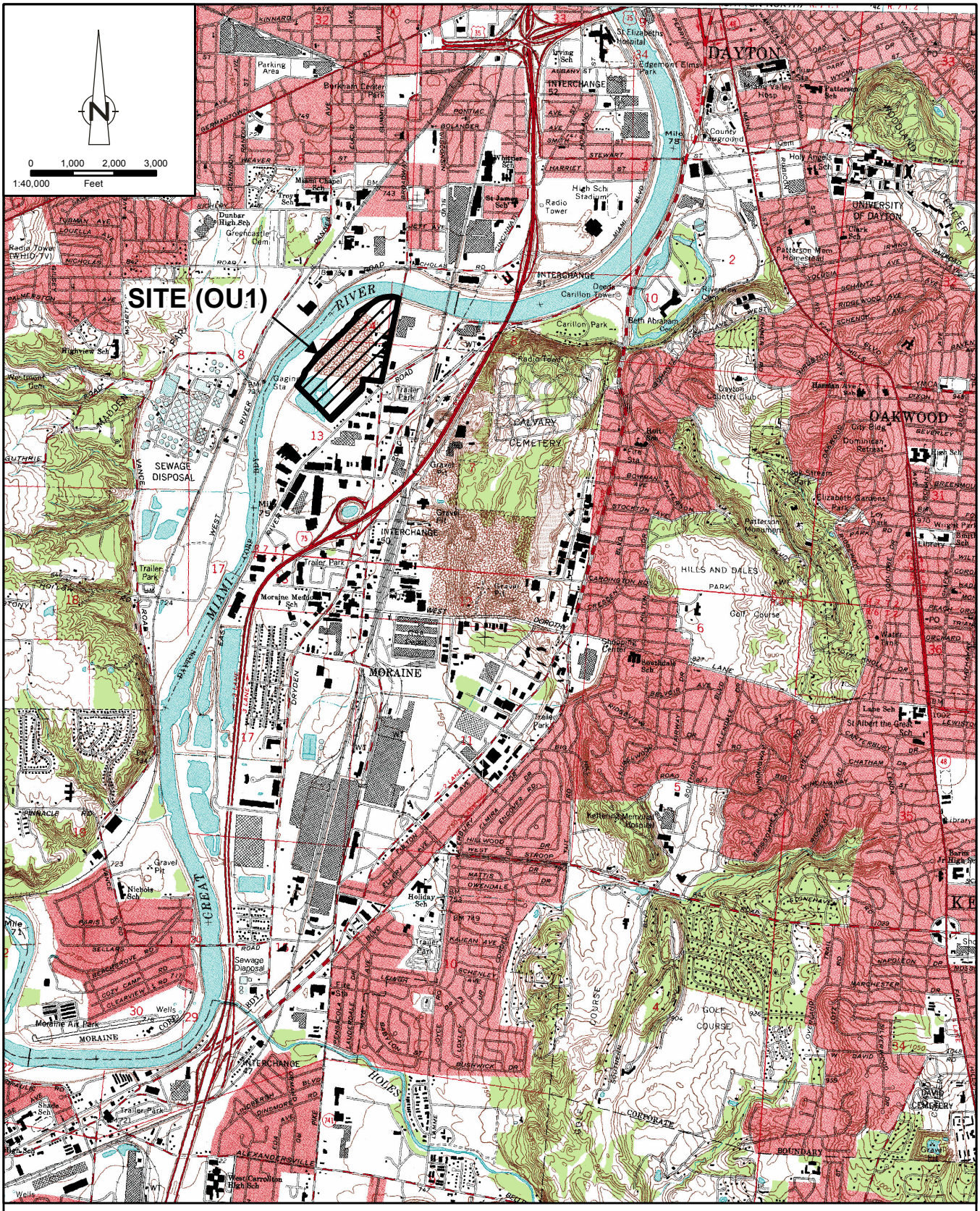


Base Data: Dayton South USGS Quad Image
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 1.1

SITE LOCATION MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

GHD

038443-360(035)GIS-OT001 Jul 25/2019

0 100 300ft

NORTHERN AREA

CENTRAL AREA

SOUTHERN AREA

NORTHERN PARCELS

CENTRAL PARCELS

QUARRY POND PARCELS

DP&L PARCELS

DRYDEN ROAD BUSINESSES

SOUTH DAYTON DUMP & LANDFILL

VALLEY ASPHALT

DAYTON POWER & LIGHT

TRAILER PARK

DRYDEN ROAD

EAST RIVER ROAD

RECREATIONAL TRAIL

GREAT MIAMI RIVER

GREAT MIAMI RIVER FLOODPLAIN

QUARRY POND

LARGE POND

SMALL POND

LEGEND

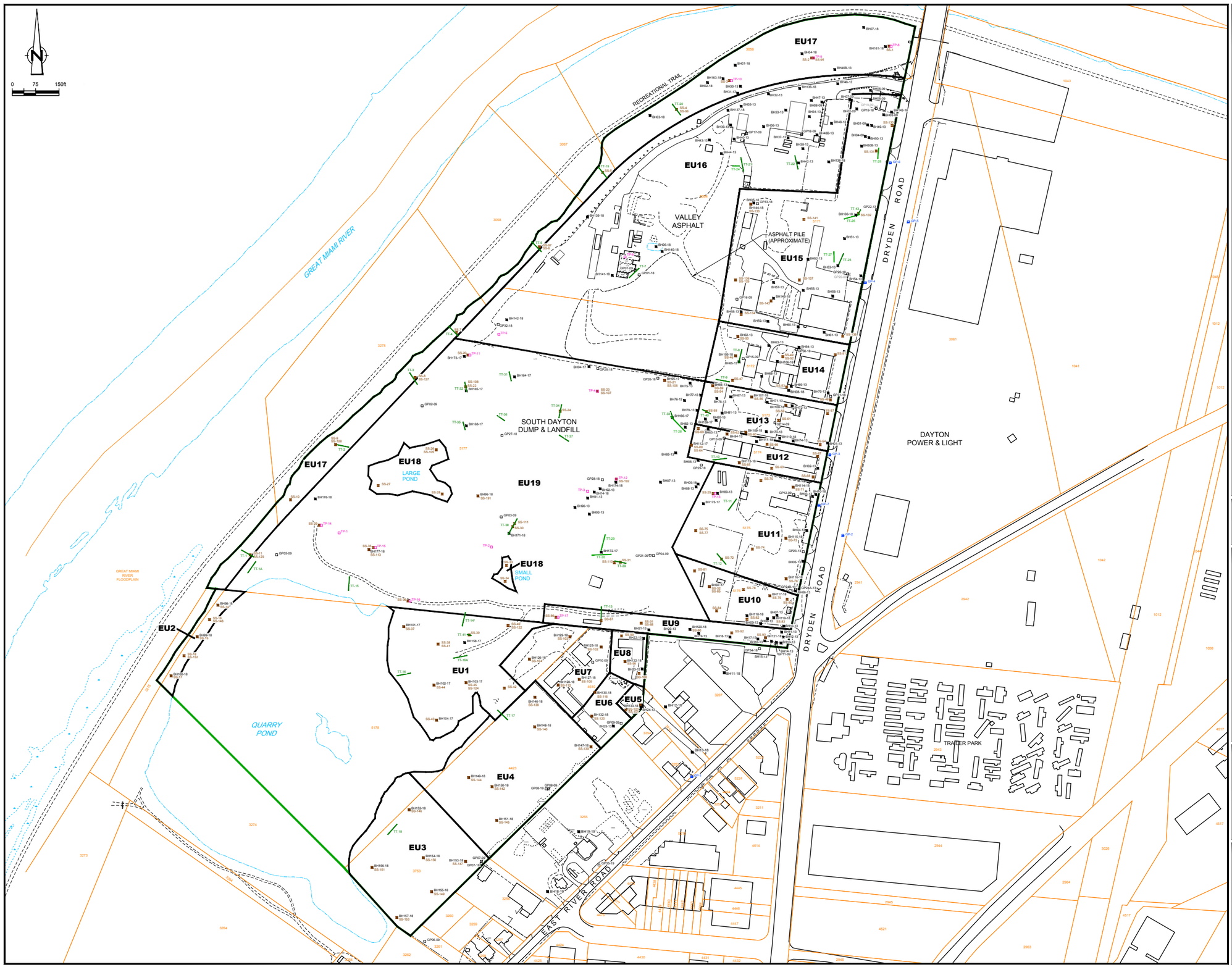
- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)

figure 1.2

OPERABLE UNIT ONE (OU1) BOUNDARY
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA004.DWG Plot Date: JUL 25, 2019



NO.	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- EXPOSURE UNIT
- TP-1 TEST PIT LOCATION
- TT-1 TEST TRENCH LOCATION
- BH01-18 BOREHOLE LOCATION
- SS-2 SURFICIAL SOIL LOCATION
- GP01-18 EXISTING LANDFILL GAS PROBE
- GP01-18 NOT FOUND LANDFILL GAS PROBE
- GP01-18 ABANDONED LANDFILL GAS PROBE
- GP-1 USEPA NESTED SOIL GAS PROBE LOCATION

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

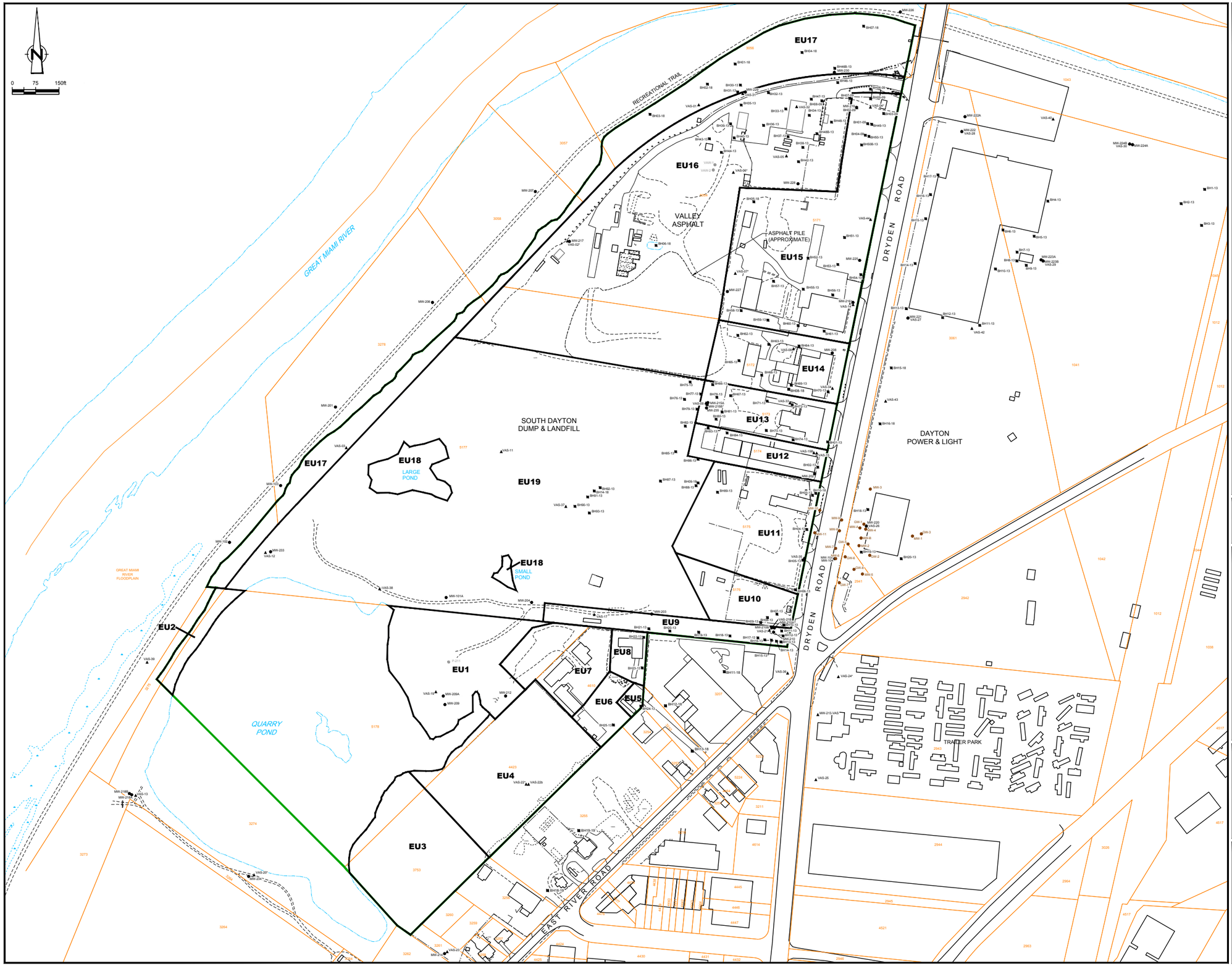
SOIL/FILL INVESTIGATIVE LOCATIONS

GHD

Source Reference:

Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project N°: 38443-360	Report N°: 035	Drawing N°: figure 2.1

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GIN\38443-360(035)GIN-WA017.dwg Plot Date: SEP 30, 2019



NO.	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- EXPOSURE UNIT
- MW-206 MONITORING WELL LOCATION
- MW-102 ABANDONED WELL LOCATION
- MW-1 HISTORIC DP&L MONITORING WELL LOCATION
- BH01-18 BOREHOLE LOCATION
- VAS-01 VERTICAL AQUIFER SAMPLING LOCATION
- P-21 PIE: OMETER LOCATION
- VAS LOCATION COMPLETED TO 70 FEET BELOW GROUND SURFACE OR LESS

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GROUNDWATER INVESTIGATIVE LOCATIONS

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project No.: 38443-360	Report No.: 035	Drawing No.: figure 2.2

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA007.DWG Plot Date: SEP 30, 2019

Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

Figure 3.1

SITE VICINITY MAP
SOUTH DAYTON DUMP & LANDFILL SITE
Moraine, Ohio

038443-360(035)GIS-OT002 Jul 25/2019

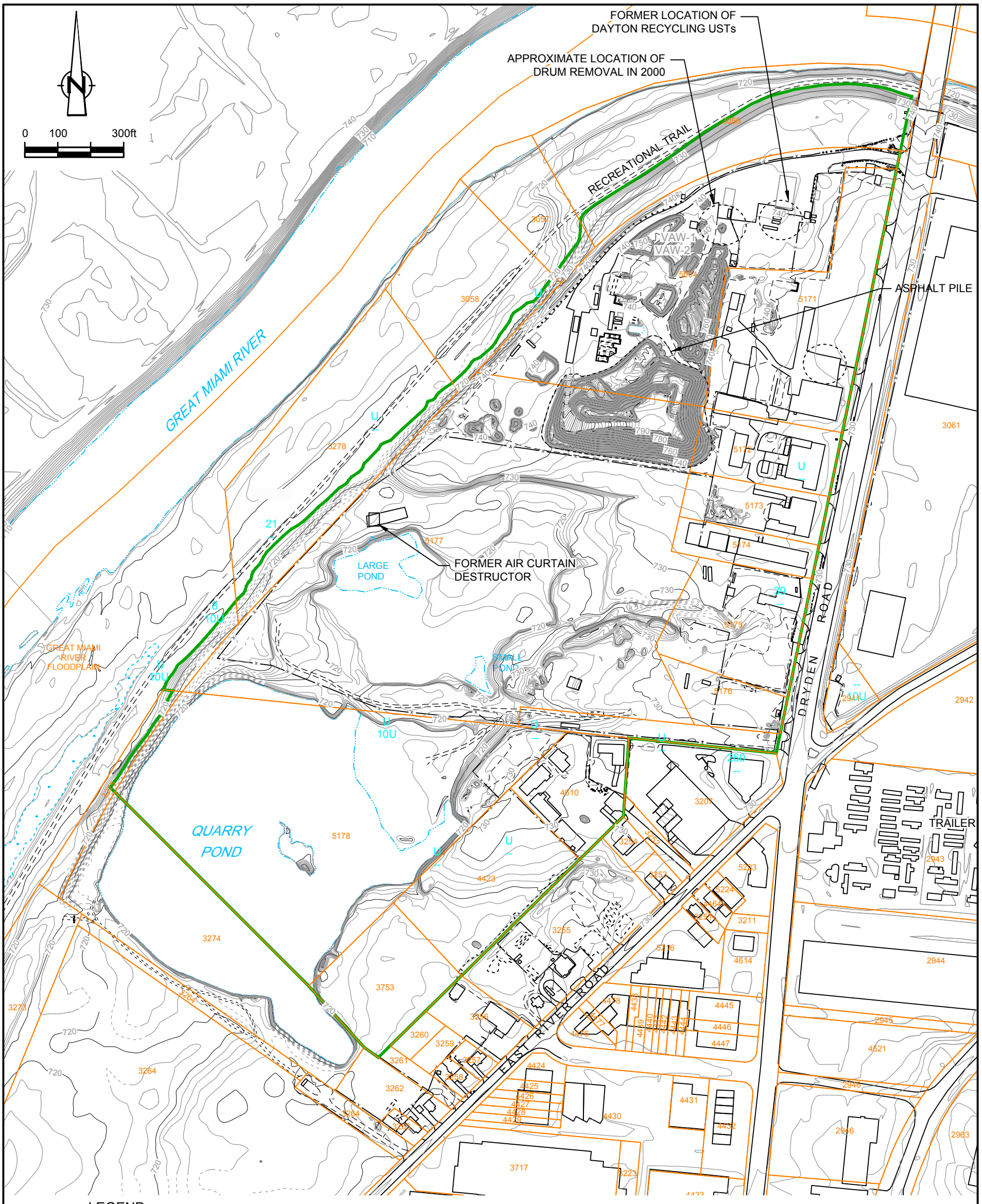


figure 3.2

TOPOGRAPHIC MAP
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA005.DWG Plot Date: AUG 01, 2019

Nº	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- MW-209 MONITORING WELL LOCATION
- MW-177 ABANDONED WELL LOCATION
- VAS-07 VERTICAL AQUIFER SAMPLING LOCATION
- P-211 PIEZOMETER LOCATION
- BH01-17 BOREHOLE LOCATION
- VAS LOCATION COMPLETED TO 70 FEET BELOW GROUND SURFACE OR LESS
- TP-1 TEST PIT LOCATION
- TT-1 TEST TRENCH LOCATION
- GP01-18 EXISTING LANDFILL GAS PROBE
- GP01-18 NOT FOUND LANDFILL GAS PROBE
- 5.0 DEPTH TO NATIVE SOIL MATERIAL CONTOUR (FEET BGS)
- 2.0 DEPTH TO NATIVE SOIL MATERIAL (FEET BGS)

DEPTH TO NATIVE SOIL MATERIAL (FEET BGS)

- 0 AND 5
- 5 AND 10
- 10 AND 15
- 15 AND 20
- 20 AND 25
- 25 AND 30
- 30 AND 35
- 35 AND 40
- 40

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

DEPTH TO NATIVE SOIL MATERIAL

GHD

Source Reference:

Project Manager:	Reviewed By:	Date:	
		SEPTEMBER 2019	
Scale: 1:150	Project Nº: 38443-360	Report Nº: 035	Drawing Nº: fig 3.3a

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA008.DWG Plot Date: SEP 30, 2019

N⁰	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- MW-206 MONITORING WELL LOCATION
- MW-177 ABANDONED WELL LOCATION
- VAS-07 VERTICAL AQUIFER SAMPLING LOCATION
- P-211 PIEZOMETER LOCATION
- BH01-17 BOREHOLE LOCATION
- VAS LOCATION COMPLETED TO 70 FEET BELOW GROUND SURFACE OR LESS
- TP-5 TEST PIT LOCATION
- TT-1 TEST TRENCH LOCATION
- GP01-18 EXISTING LANDFILL GAS PROBE
- GP01-18 NOT FOUND LANDFILL GAS PROBE
- 5.0 FILL ELEVATIONS CONTOUR (AMSL)
- 2.0 FILL ELEVATIONS (AMSL)

FILL ELEVATIONS (AMSL)

- 730
- 730 - 722
- 722 -714
- 714 - 706
- 706 - 698
- 698 - 690
- 690

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

NATIVE SOIL ELEVATION CONTOURS

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project N⁰: 38443-360	Report N⁰: 035	Drawing N⁰: fig 3.3b

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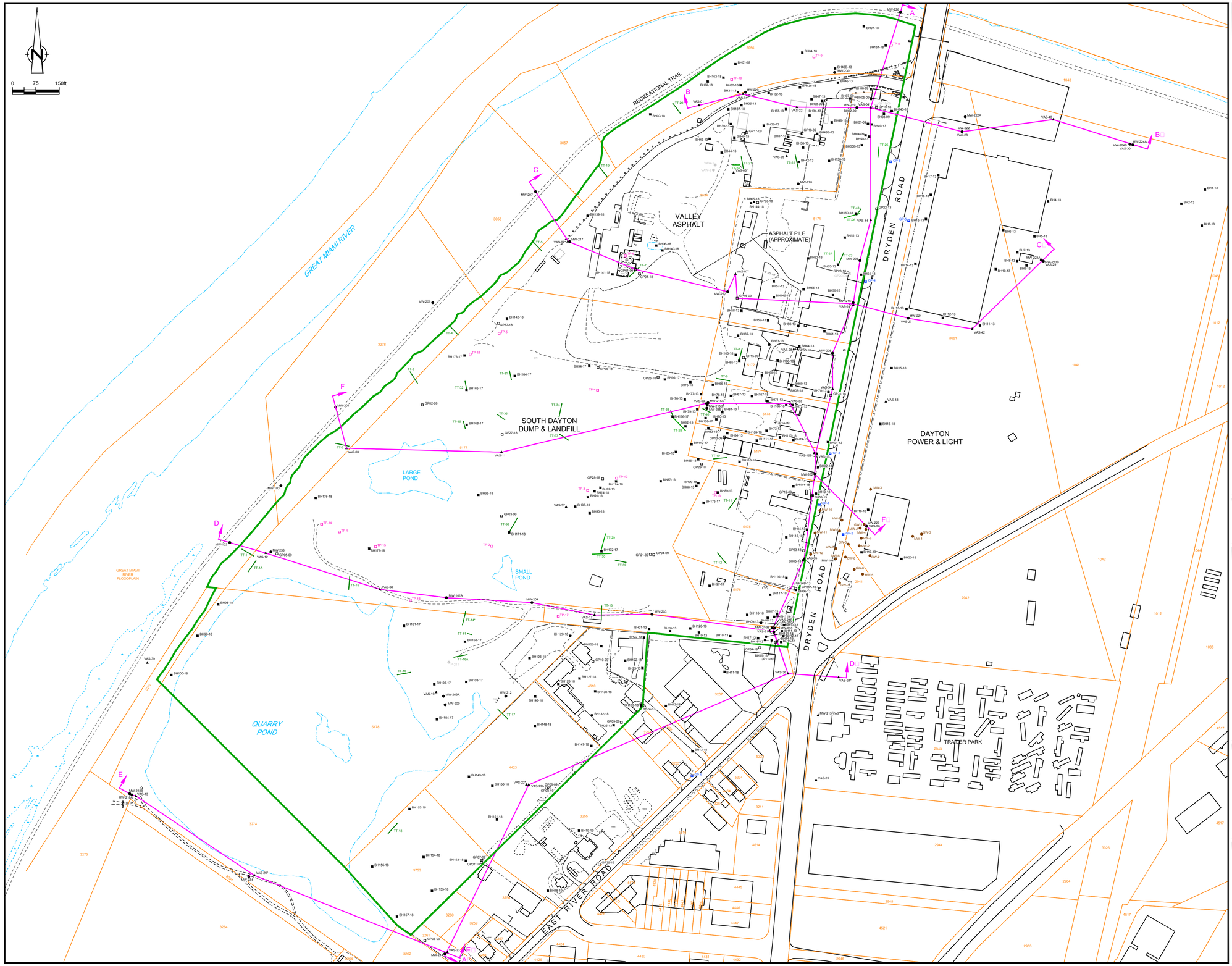


NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- MW-206 MONITORING WELL LOCATION
- MW-102 ABANDONED WELL LOCATION
- MW-1 HISTORIC DP&L MONITORING WELL LOCATION
- VAS-07 VERTICAL AQUIFER SAMPLING LOCATION
- P-01 PIEZOMETER LOCATION
- SD07 PSARA SOIL BORING LOCATION (APPROXIMATE)
- BH01-13 BOREHOLE LOCATION
- VAS LOCATION COMPLETED TO 70 FEET BELOW GROUND SURFACE OR LESS
- TP-1 TEST PIT LOCATION
- TT-1 TEST TRENCH LOCATION
- GP01-18 EXISTING LANDFILL GAS PROBE
- GP01-18 NOT FOUND LANDFILL GAS PROBE
- GP01-18 ABANDONED LANDFILL GAS PROBE
- GP-1 USEPA NESTED SOIL GAS PROBE LOCATION
- A A CROSS-SECTION LOCATION A-A TO D-D

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

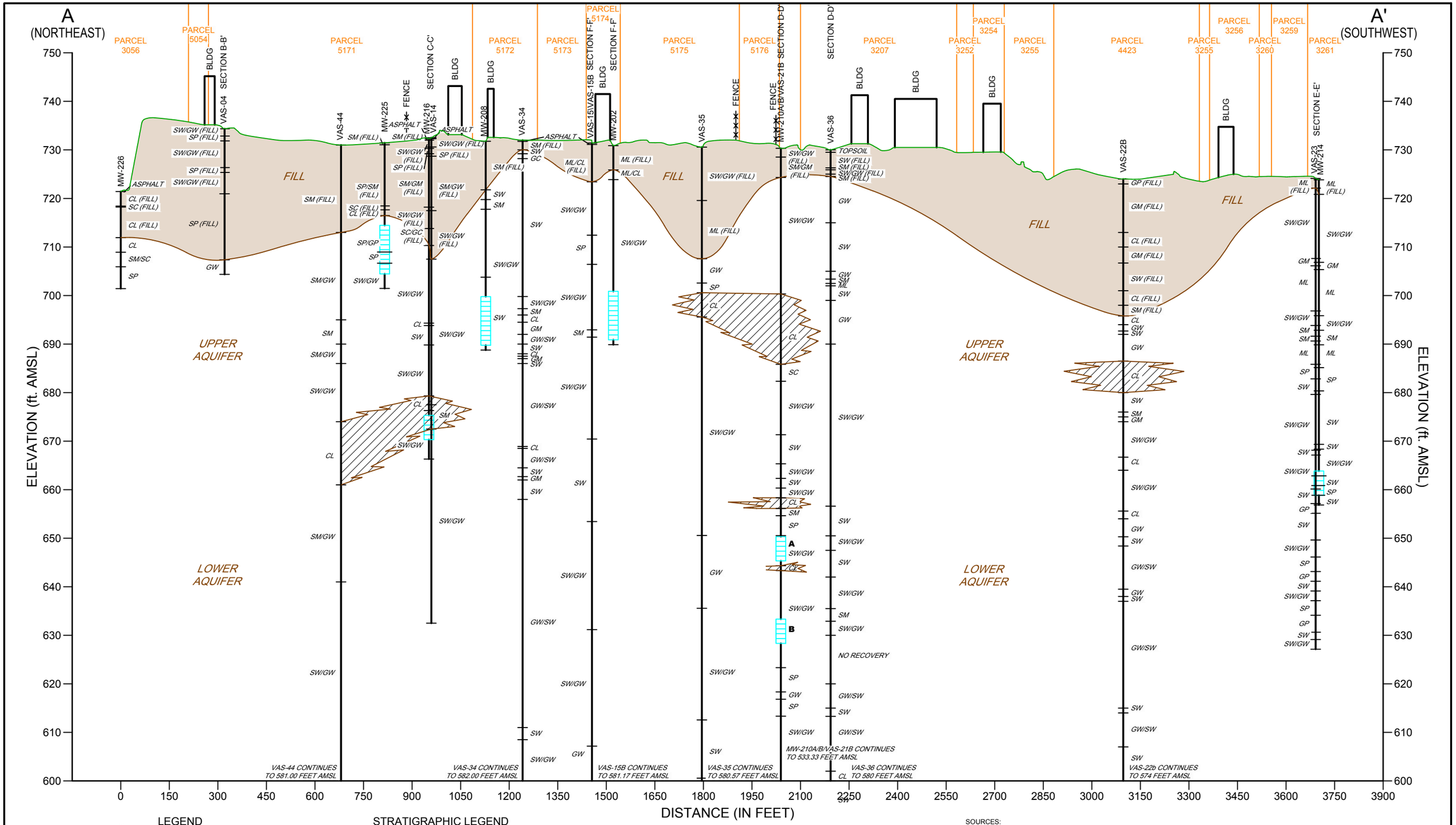
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GEOLOGIC CROSS SECTION LOCATION MAP

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project NO: 38443-360	Report NO: 035	Drawing NO: fig 3.4

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA006.DWG Plot Date: SEP 30, 2019



LEGEND

MW-102 — WELL IDENTIFICATION
— GROUND SURFACE
GR / SC — STRATIGRAPHIC DESCRIPTION
— WELL SCREEN INTERVAL

STRATIGRAPHIC LEGEND

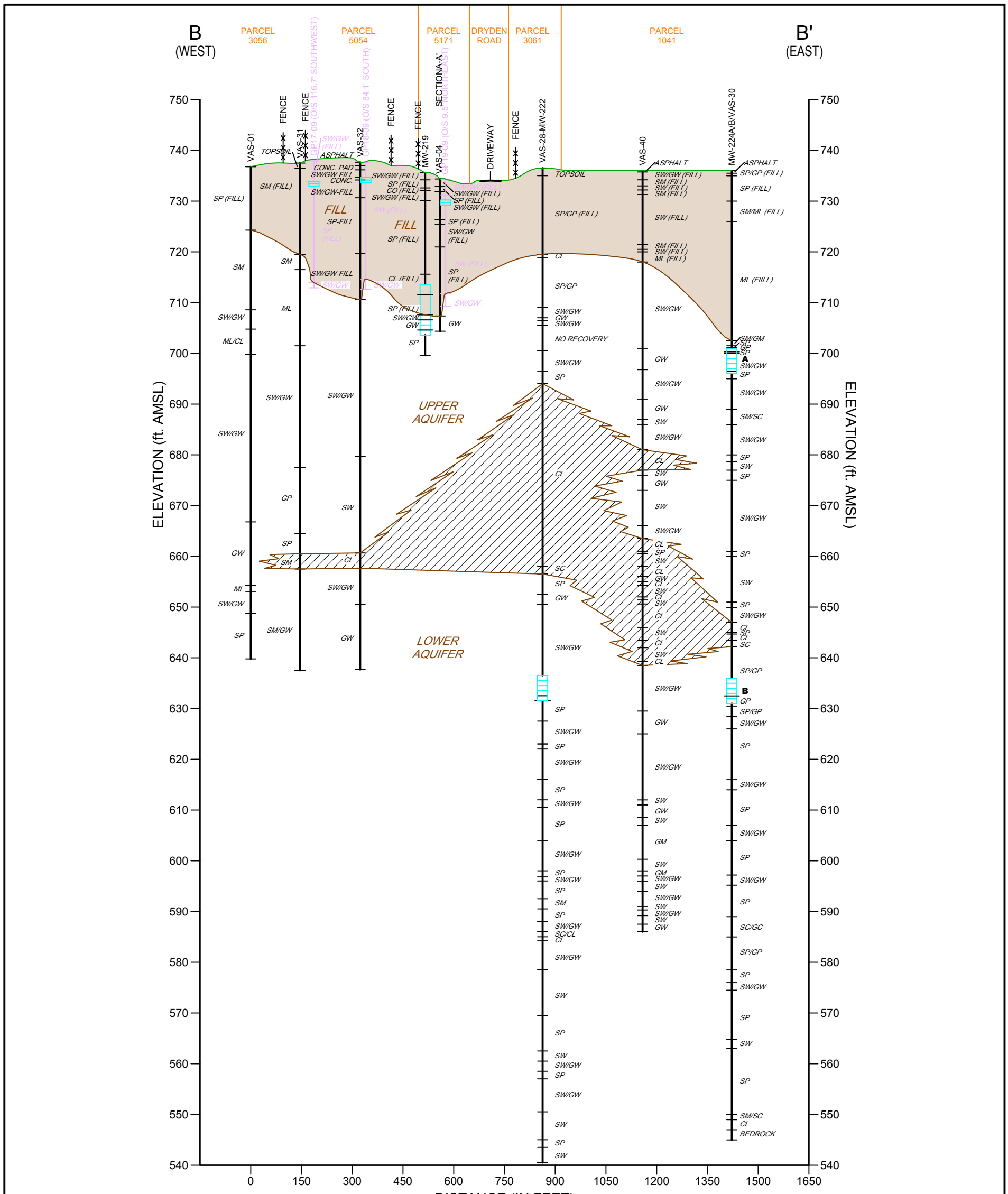
- *CL* — CLAY, SILTY CLAY, SANDY CLAY
- *SC* — CLAYEY SAND, >12% FINES
- *GR* — GRAVEL
- *NR* — NO RECOVERY
- *CB* — COBBLE
- *GW* — WELL GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- *GP* — POORLY GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- *GM* — SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, >12% FINES
- *SW* — WELL GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- *SP* — POORLY GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- *SM* — SILTY SANDS, SAND-SILT MIXTURES >12% FINES
- *ML* — SILT, SILTY-SANDS

CLAY/SILT LENS

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

figure 3.5a

CROSS-SECTION A-A'
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio



SCALE : VERT. 1"=20'
HORZ. 1"=300'

LEGEND

MW-102 — WELL IDENTIFICATION
GROUND SURFACE
GR
SC — STRATIGRAPHIC DESCRIPTION
WELL SCREEN INTERVAL

STRATIGRAPHIC LEGEND

- CL — CLAY, SILTY CLAY, SANDY CLAY
- SC — CLAYEY SAND, >12% FINES
- GR — GRAVEL
- NR — NO RECOVERY
- CB — COBBLE
- GW — WELL GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- GP — POORLY GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- GC — CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES MIXTURES, ≥15% FINES
- GM — SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, >12% FINES
- SW — WELL GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- SP — POORLY GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- SM — SILTY SANDS, SAND-SILT MIXTURES >12% FINES
- ML — SILT, SILTY-SANDS

CLAY/SILT LENS

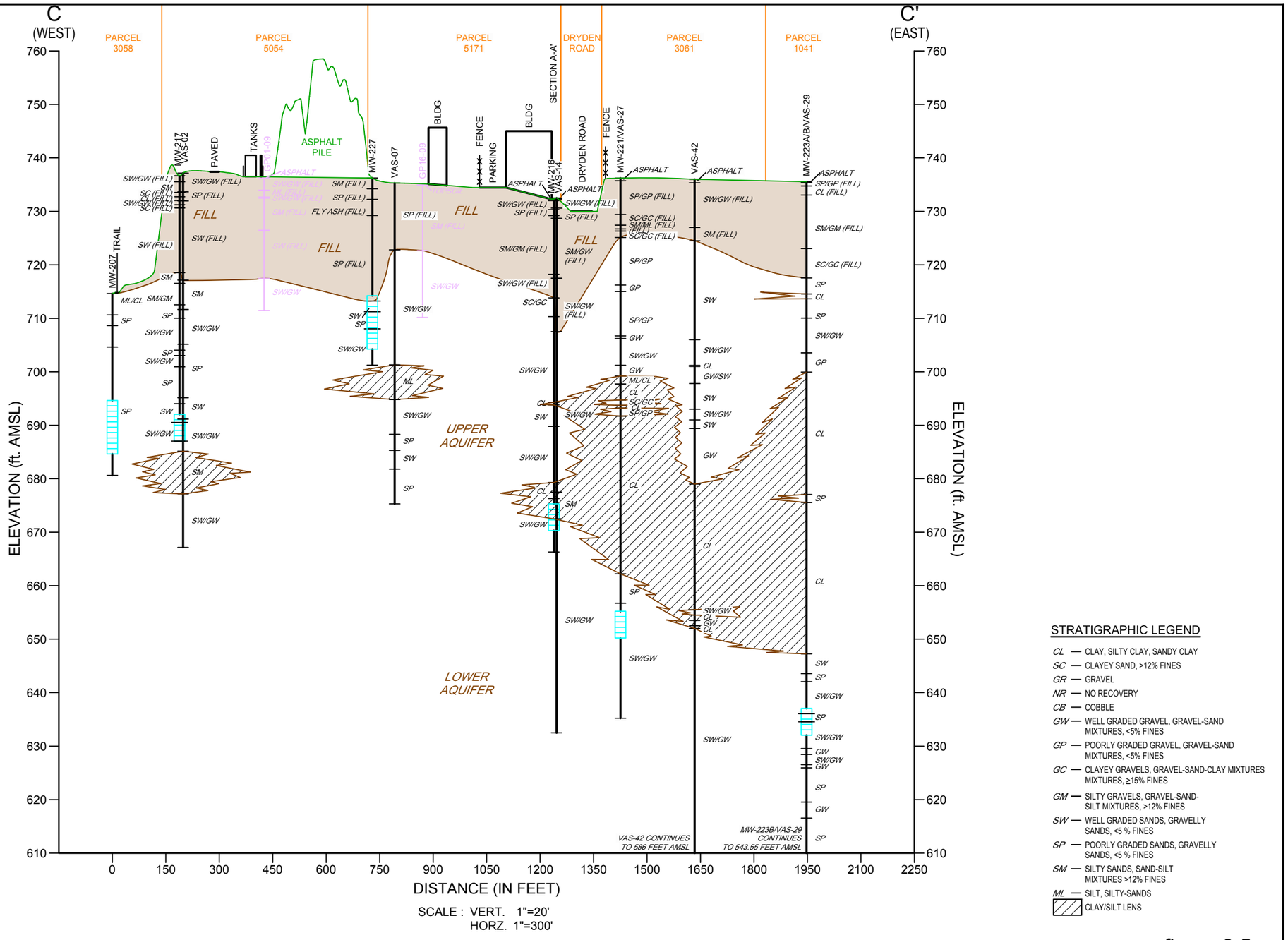
SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

NOTE:
* LOGS PREPARED BY DRILLING CONTRACTOR - NOT USED IN PREPERATION OF CROSS-SECTION

figure 3.5b

CROSS-SECTION B-B'
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA006.DWG Plot Date: SEP 04, 2019



SCALE : VERT. 1"=20'
HORZ. 1"=300'

LEGEND

MW-102 — WELL IDENTIFICATION
GROUND SURFACE
GR / SC — STRATIGRAPHIC DESCRIPTION
WELL SCREEN INTERVAL

STRATIGRAPHIC LEGEND

- *CL* — CLAY, SILTY CLAY, SANDY CLAY
- *SC* — CLAYEY SAND, >12% FINES
- *GR* — GRAVEL
- *NR* — NO RECOVERY
- *CB* — COBBLE
- *GW* — WELL GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- *GP* — POORLY GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- *GC* — CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES MIXTURES, ≥15% FINES
- *GM* — SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, >12% FINES
- *SW* — WELL GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- *SP* — POORLY GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- *SM* — SILTY SANDS, SAND-SILT MIXTURES >12% FINES
- *ML* — SILT, SILTY-SANDS
- CLAY/SILT LENS

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

figure 3.5c

CROSS-SECTION C-C'
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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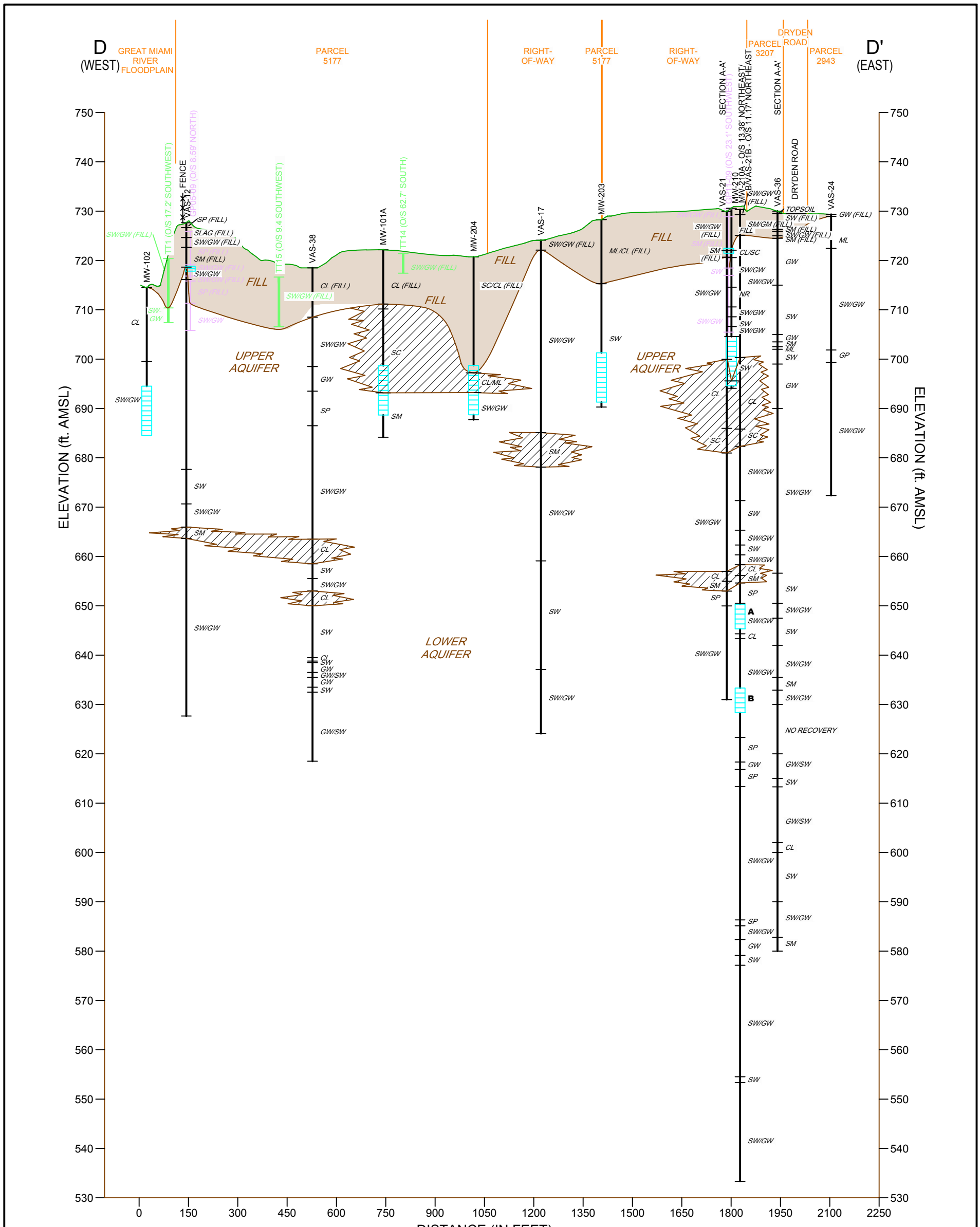


SCALE : VERT. 1"=20'
HORZ. 1"=300'

LEGEND

MW-102 — WELL IDENTIFICATION
GROUND SURFACE
GR / SC — STRATIGRAPHIC DESCRIPTION
WELL SCREEN INTERVAL

STRATIGRAPHIC LEGEND

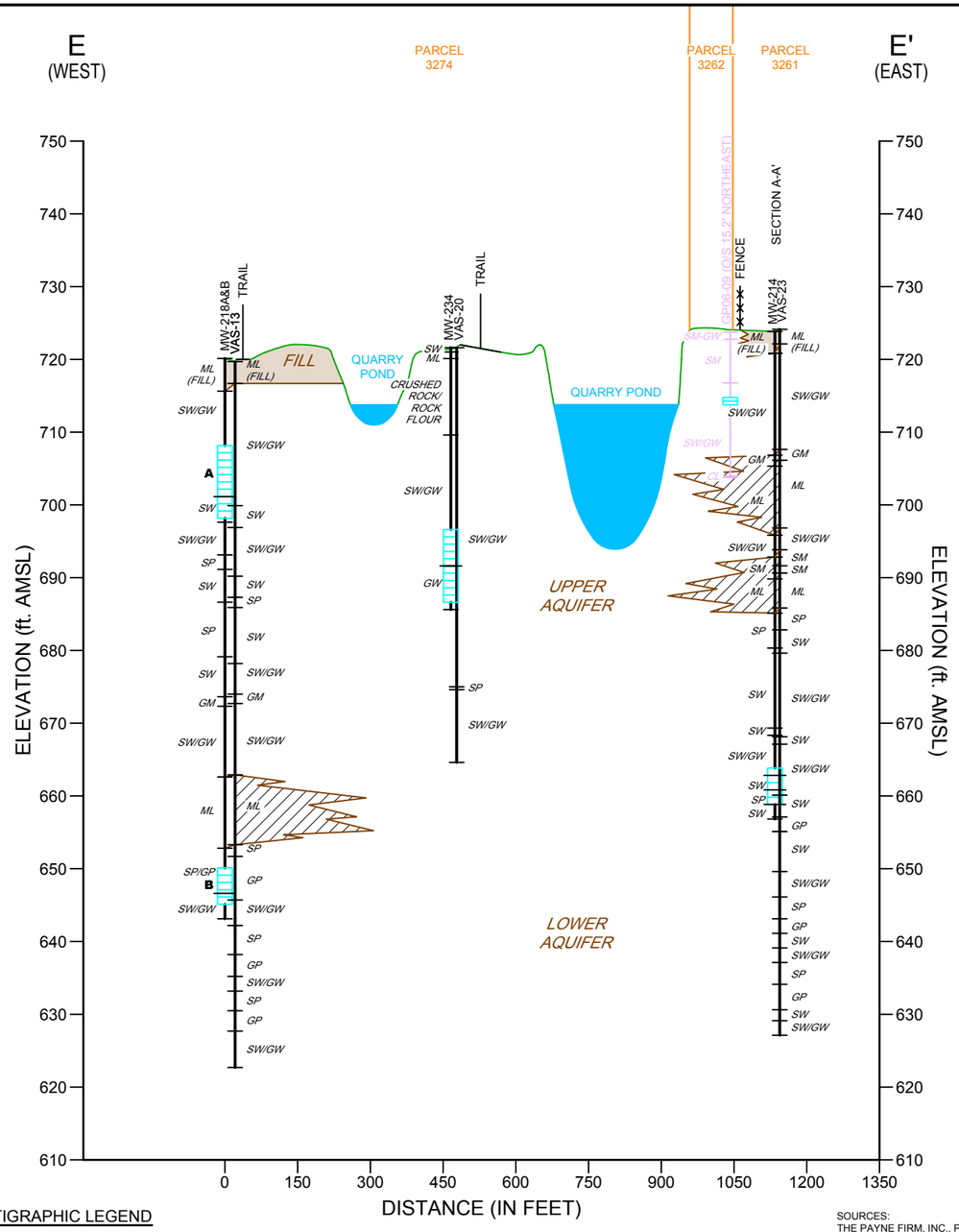
CL — CLAY, SILTY CLAY, SANDY CLAY
SC — CLAYEY SAND, >12% FINES
GR — GRAVEL
NR — NO RECOVERY
CB — COBBLE
GW — WELL GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
GP — POORLY GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
GM — SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, >12% FINES
SW — WELL GRADED SANDS, GRAVELLY SANDS, <5 % FINES
SP — POORLY GRADED SANDS, GRAVELLY SANDS, <5 % FINES
SM — SILTY SANDS, SAND-SILT MIXTURES >12% FINES
ML — SILT, SILTY-SANDS

CLAY/SILT LENS

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

figure 3.5d

CROSS-SECTION D-D'
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio



LEGEND

MW-102 — WELL IDENTIFICATION
GROUND SURFACE
GR
SC — STRATIGRAPHIC DESCRIPTION
WELL SCREEN INTERVAL

STRATIGRAPHIC LEGEND

- *CL* — CLAY, SILTY CLAY, SANDY CLAY
- *SC* — CLAYEY SAND, >12% FINES
- *GR* — GRAVEL
- *NR* — NO RECOVERY
- *CB* — COBBLE
- *GW* — WELL GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- *GP* — POORLY GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
- *GM* — SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, >12% FINES
- *SW* — WELL GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- *SP* — POORLY GRADED SANDS, GRAVELLY SANDS, <5 % FINES
- *SM* — SILTY SANDS, SAND-SILT MIXTURES >12% FINES
- *ML* — SILT, SILTY-SANDS

CLAY/SILT LENS

SCALE : VERT. 1"=20'
HORZ. 1"=300'

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

figure 3.5e

CROSS-SECTION E-E'
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

F (WEST)

F' (EAST)

PARCEL 3278 | PARCEL 5177 | PARCEL 5173 | PARCEL 5174 | DRYDEN ROAD | PARCEL 3061

ELEVATION (ft. AMSL)

DISTANCE (IN FEET)

SCALE : VERT. 1"=20'
HORZ. 1"=300'

LEGEND

MW-102 — WELL IDENTIFICATION
GROUND SURFACE
GR / SC — STRATIGRAPHIC DESCRIPTION
WELL SCREEN INTERVAL

STRATIGRAPHIC LEGEND

CL — CLAY, SILTY CLAY, SANDY CLAY
SC — CLAYEY SAND, >12% FINES
GR — GRAVEL
NR — NO RECOVERY
CB — COBBLE
GW — WELL GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
GP — POORLY GRADED GRAVEL, GRAVEL-SAND MIXTURES, <5% FINES
GM — SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES, >12% FINES
SW — WELL GRADED SANDS, GRAVELLY SANDS, <5 % FINES
SP — POORLY GRADED SANDS, GRAVELLY SANDS, <5 % FINES
SM — SILTY SANDS, SAND-SILT MIXTURES >12% FINES
ML — SILT, SILTY-SANDS

CLAY/SILT LENS

figure 3.5f

CROSS-SECTION F-F'
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI 29610, 04/02/2008

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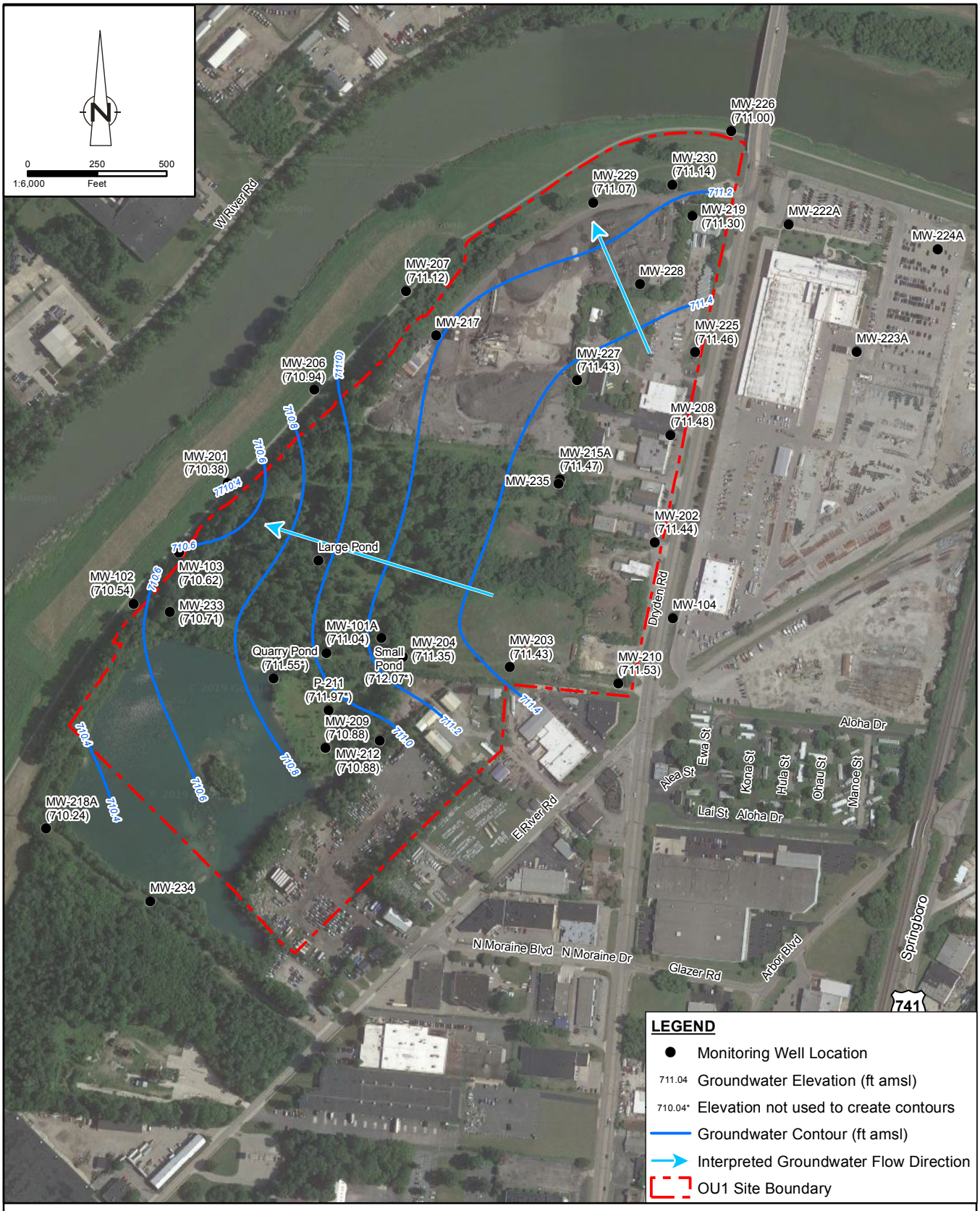
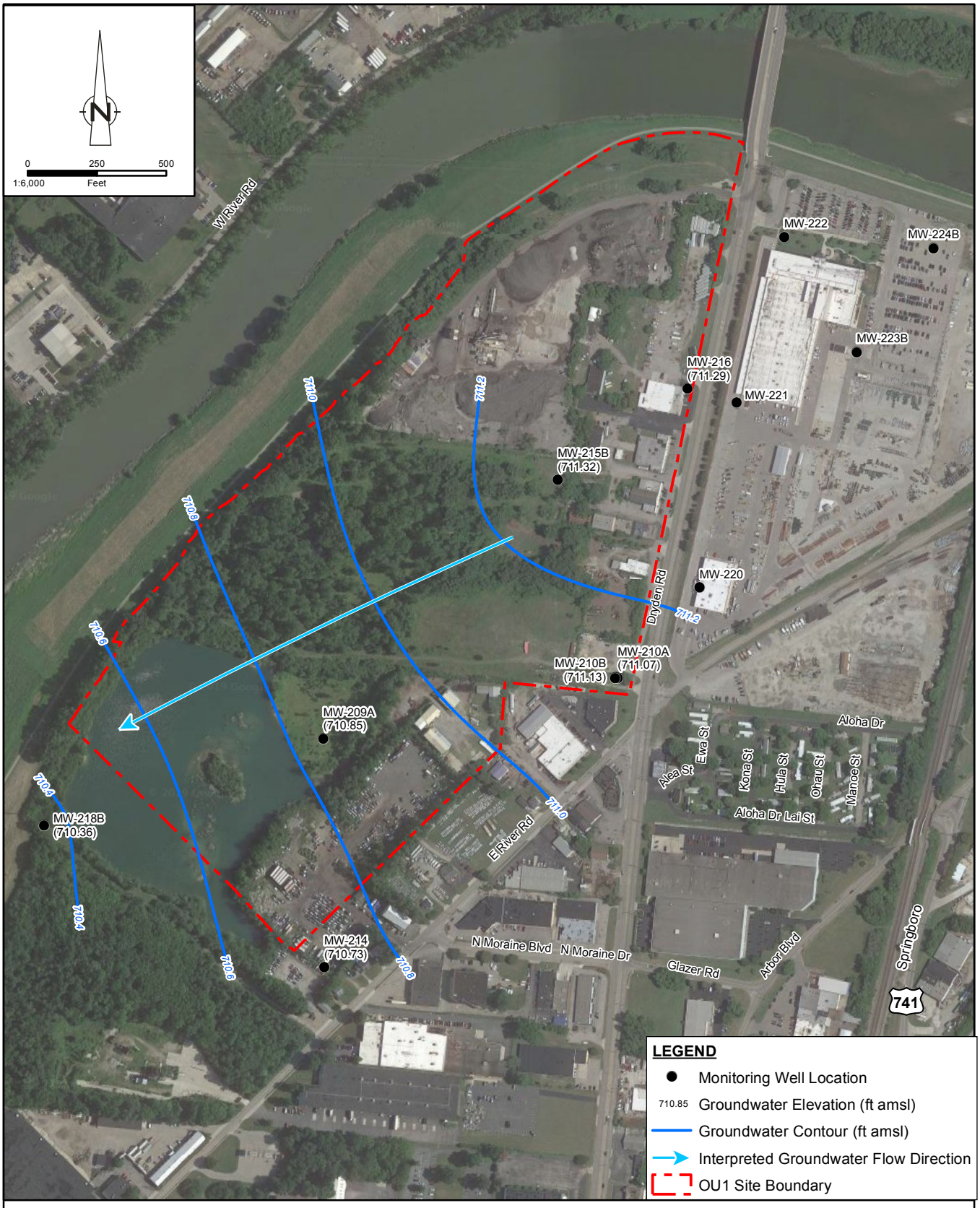


Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 3.6

GROUNDWATER ELEVATION CONTOURS, UPPER AQUIFER - MARCH 23, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

038443-360(035)GIS-OT003 Sep 11, 2019

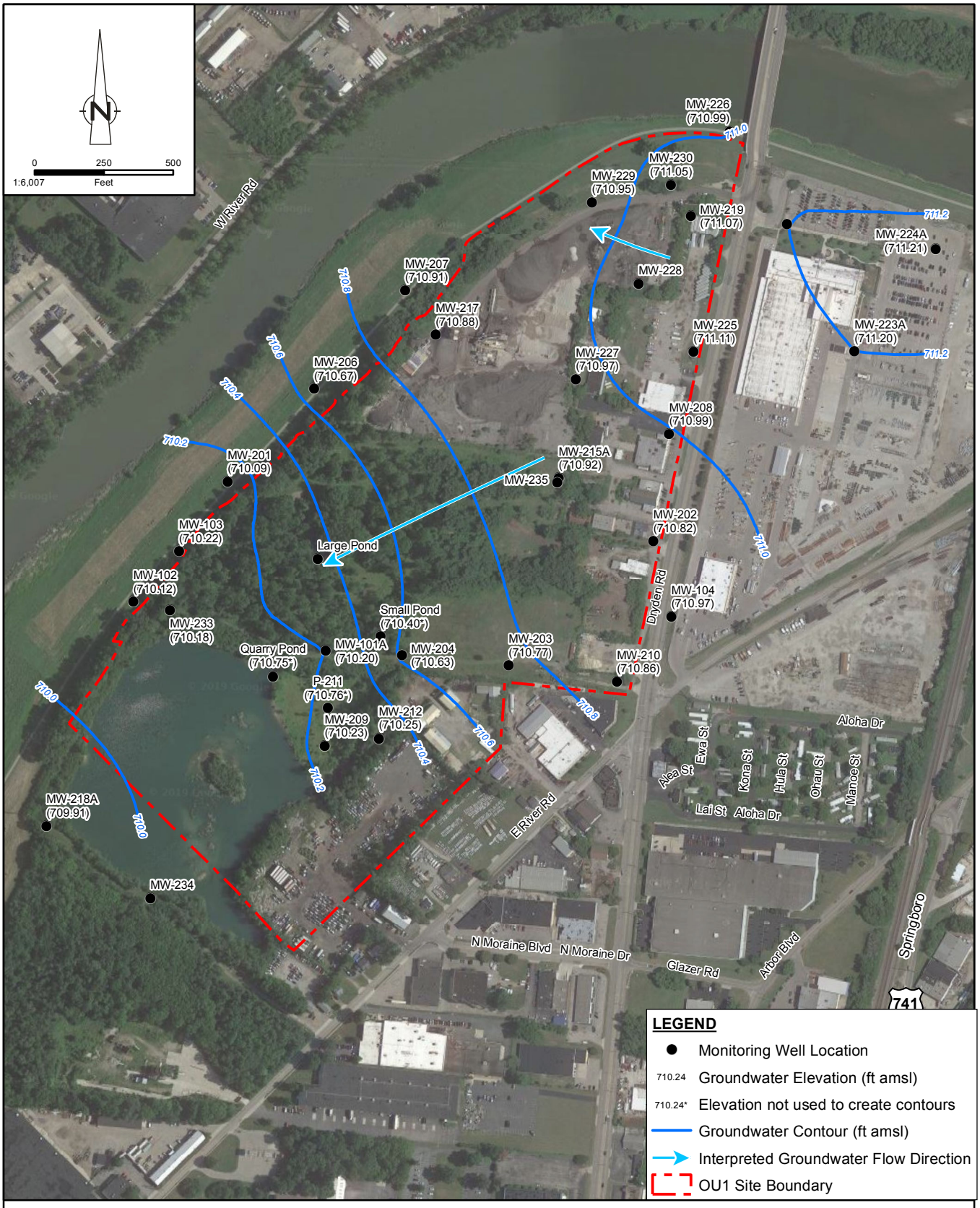


Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 3.7

GROUNDWATER ELEVATION CONTOURS, LOWER AQUIFER - MARCH 23, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

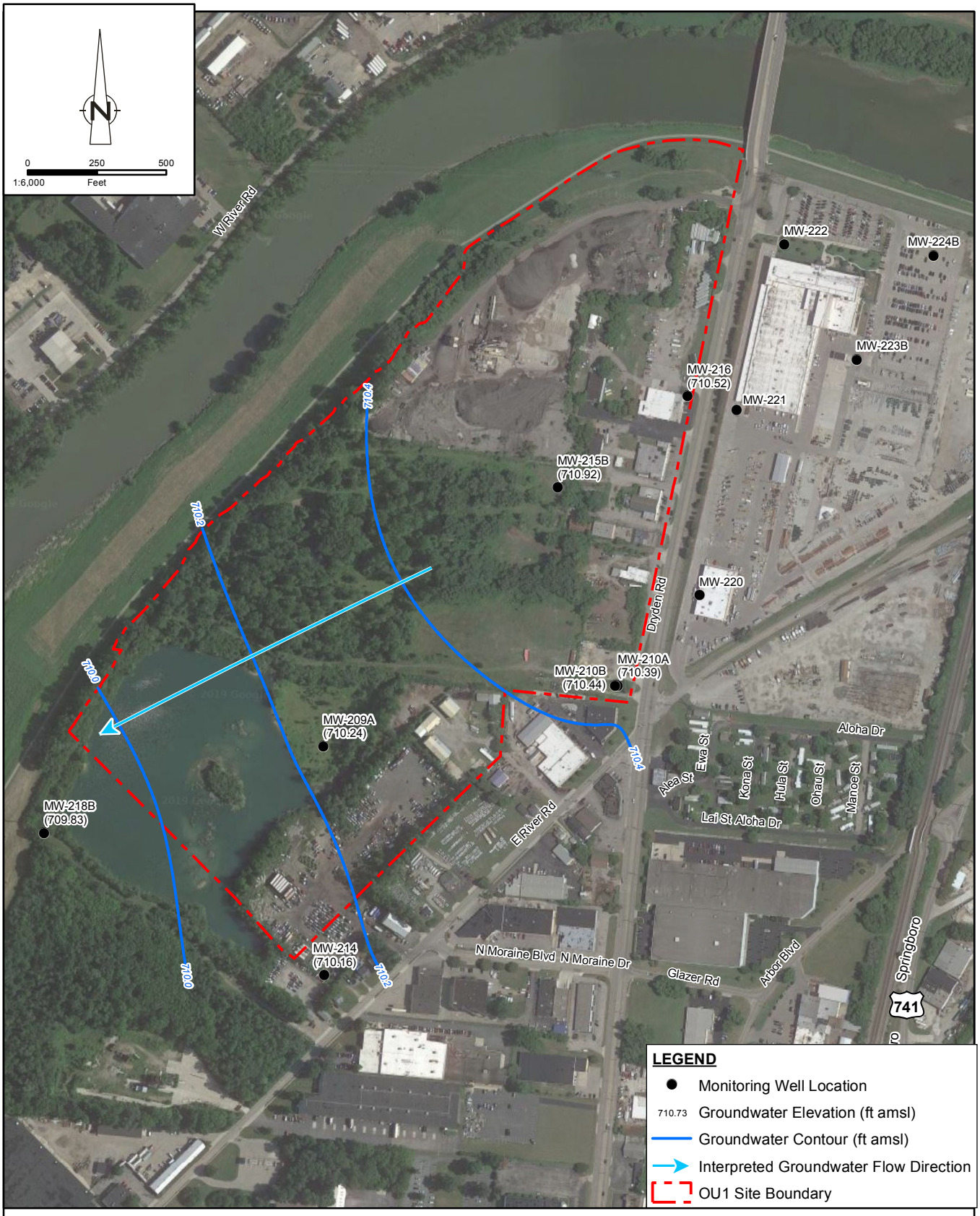
038443-360(035)GIS-OT004 Sep 11, 2019



Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio North FIPS 3401 Feet

figure 3.8

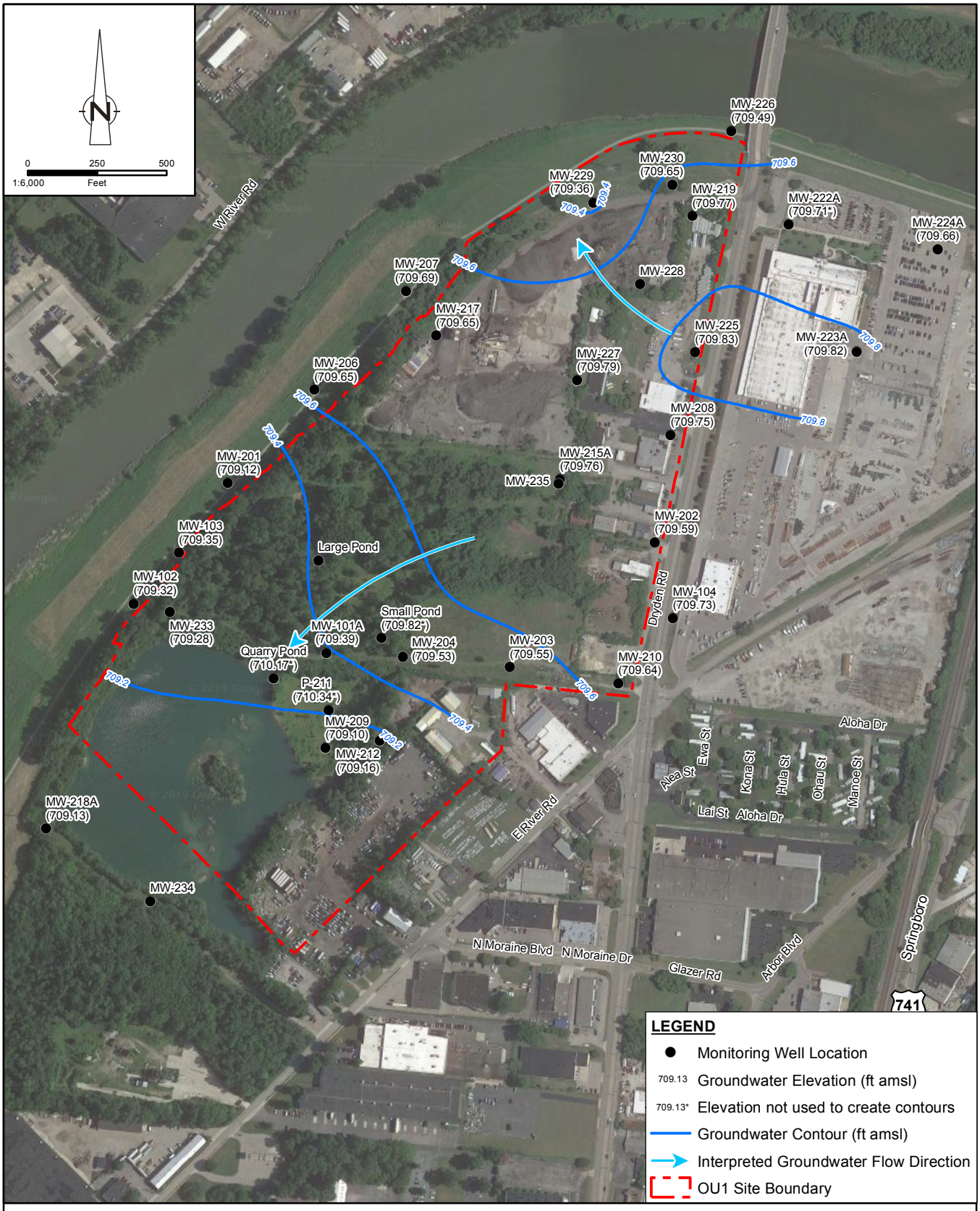
GROUNDWATER ELEVATION CONTOURS, UPPER AQUIFER - JUNE 29, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio



Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 3.9

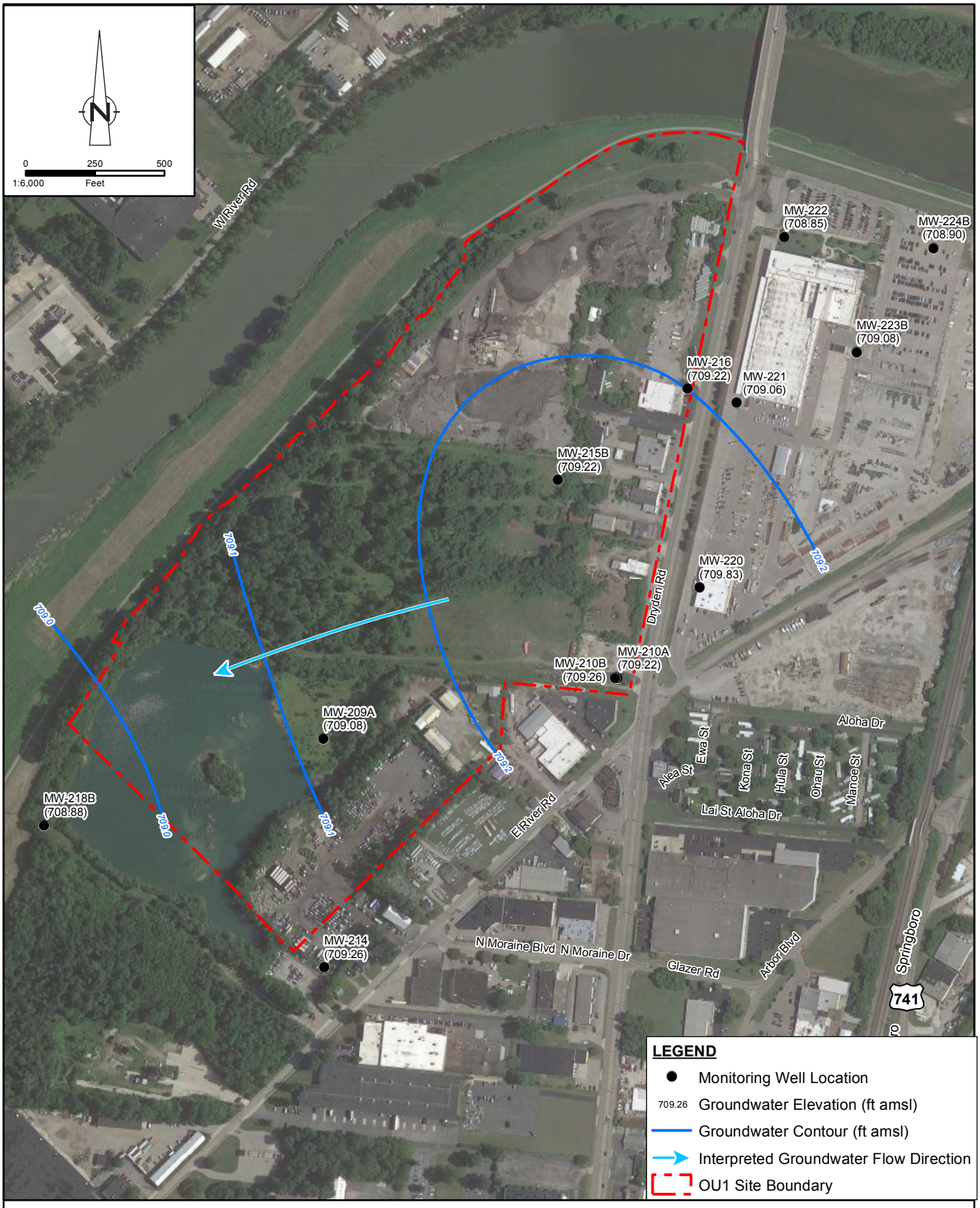
GROUNDWATER ELEVATION CONTOURS, LOWER AQUIFER - JUNE 29, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio



Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 3.10

GROUNDWATER ELEVATION CONTOURS, UPPER AQUIFER - OCTOBER 1, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio



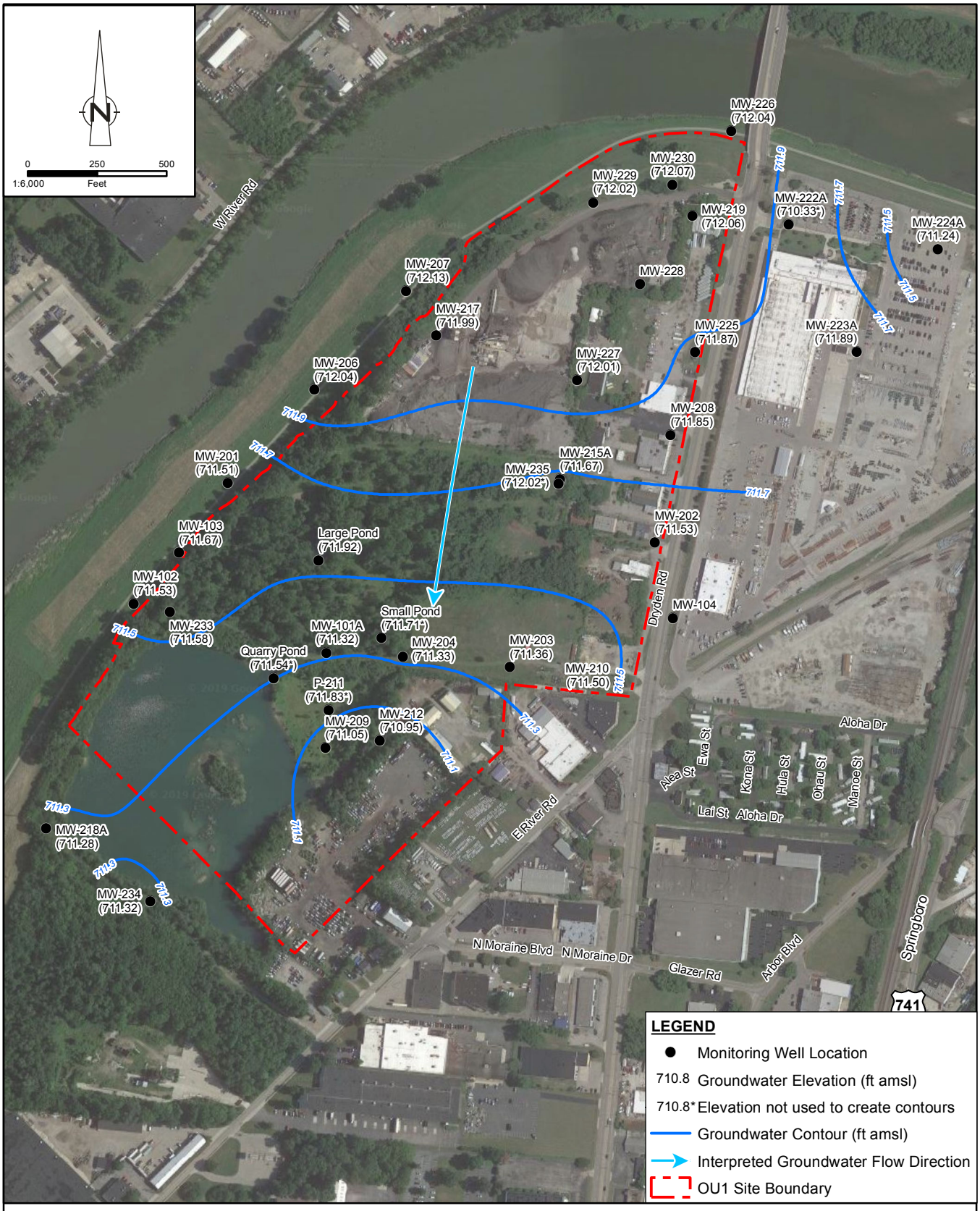
Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 3.11

GROUNDWATER ELEVATION CONTOURS, LOWER AQUIFER - OCTOBER 1, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GHD

038443-360(035)GIS-OT008 Sep 12/2019



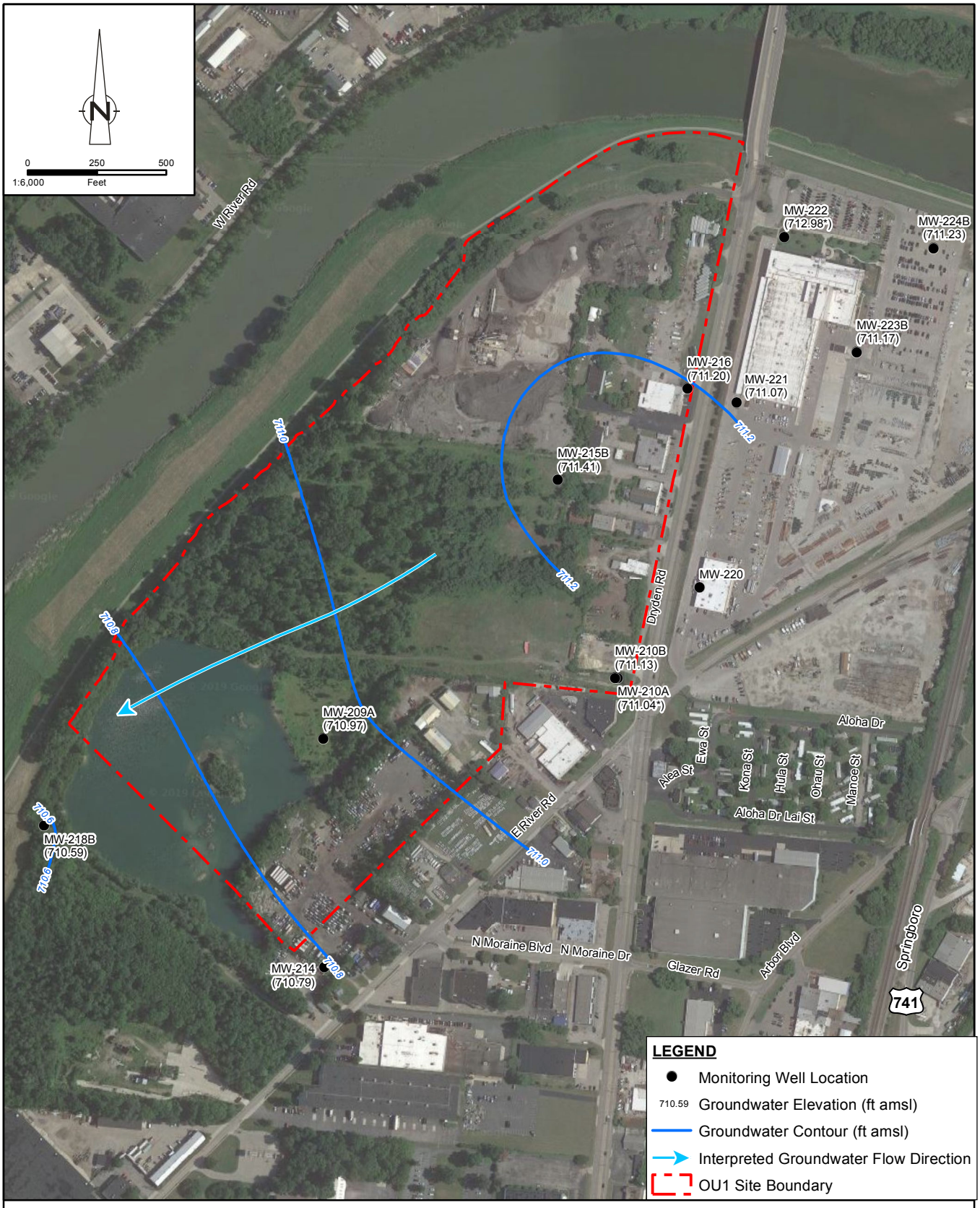
Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 3.12

GROUNDWATER ELEVATION CONTOURS, UPPER AQUIFER - DECEMBER 5-6, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GHD

038443-360(035)GIS-OT009 Sep 11/2019



Source: Image ©2019 Google, 07/10/2018
Coordinate System: NAD 1983 StatePlane Ohio South FIPS 3402 Feet

figure 3.13

GROUNDWATER ELEVATION CONTOURS, LOWER AQUIFER – DECEMBER 5-6, 2018
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

038443-360(035)GIS-OT010 Sep 12/2019

Nº	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- MW-206 MONITORING WELL LOCATION
- MW-102 ABANDONED WELL LOCATION
- MW-1 HISTORIC DP&L MONITORING WELL LOCATION
- VAS-01 VERTICAL AQUIFER SAMPLING LOCATION
- P-211 PIEZOMETER LOCATION
- SD003 PSARA SOIL BORING LOCATION (APPROXIMATE)
- BH01-13 BOREHOLE LOCATION
- * VAS LOCATION COMPLETED TO 70 FEET BELOW GROUND SURFACE OR LESS
- POSITIVE SUDAN IV FIELD TEST

BH60-13	6/19/2013 23-27 ft BGS
TCE	1.3

SAMPLE ID; SAMPLE DATE; SAMPLE DEPTH; SAMPLE RESULT; PARAMETER SAMPLED

- EXCEEDS MCL CRITERIA
- EXCEEDS TAP WATER CRITERIA

Parameter	Abbreviation	April 2019 MCL Criteria USEPA RSLs	April 2019 Tap Water Criteria USEPA RSLs
1,1,2,2-Tetracloroethane	1,1,2,2-TTCA	-	0.076
1,1-Dichloroethane	1,1-DCA	-	2.8
1,2-Dichloroethane	1,2-DCA	5	0.17
Benzene	Benzene	5	0.46
Chlorobenzene	CBZH	100	7.8
cis-1,2-Dichloroethene	c-DCE	70	3.6
Ethylbenzene	ETBZ	700	1.5
Isopropyl benzene	IPBZ	-	45
Methylene chloride	MECL	5	11
Toluene	TOLUENE	1000	110
Trichloroethene	TCE	5	0.28
Vinyl chloride	VC	2	0.019
Xylenes (total)	Xylenes (total)	10000	19

NOTE:
This drawing provides VOC results with concentrations greater than MCLs (or tapwater values where no MCLs exists).
The upper aquifer locations that do not have data shown signify that there are no detected concentrations greater than MCLs (or tapwater values where no MCL exists).

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

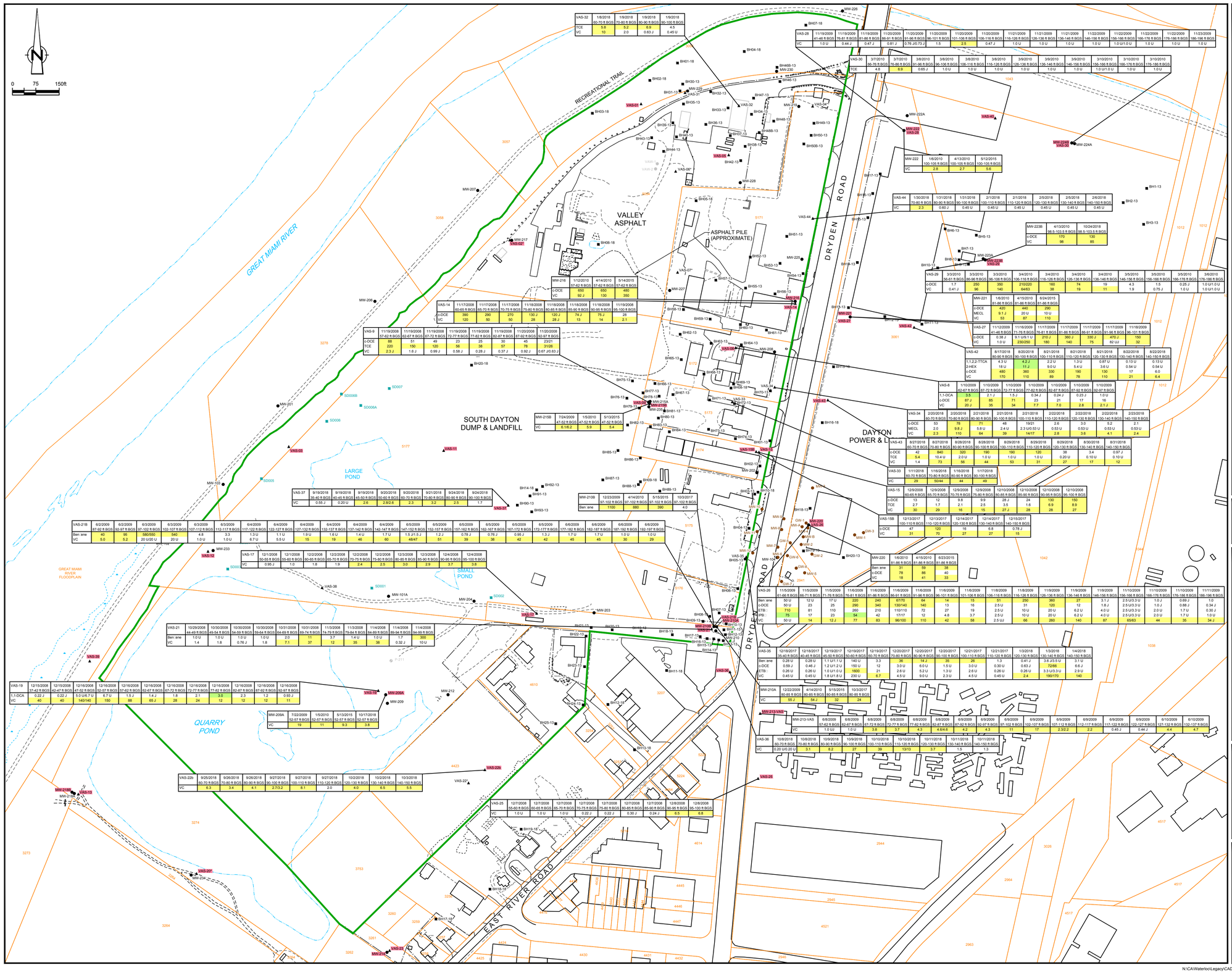
VOC ANALYTICAL RESULTS WITH USEPA RSL COMPARISON UPPER AQUIFER

GHD

Source Reference:

Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project Nº: 38443-360	Report Nº: 035	Drawing Nº: figure 5.1

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA001.DWG Plot Date: SEP 30, 2019


N
0 75 150ft
RECREATIONAL TRAIL
GREAT MIAMI RIVER
VALLEY ASPHALT
ASPHALT PILE (APPROXIMATE)
DRYDEN ROAD
SOUTH DAYTON DUMP & LANDFILL
DAYTON POWER & L
LARGE POND
SMALL POND
QUARRY POND
GREAT MIAMI RIVER FLOODPLAIN
EAST RIVER ROAD
VAS-32 | 1/8/2018 60-70 ft BGS | 1/9/2018 70-80 ft BGS | 1/9/2018 80-90 ft BGS | 1/9/2018 90-100 ft BGS
TCE | 5.8 | 5.2 | 5.9 | 4.0
VC | 10 | 2.0 | 0.63 J | 0.45 U
VAS-28 | 11/19/2009 41-46 ft BGS | 11/19/2009 76-81 ft BGS | 11/19/2009 81-86 ft BGS | 11/20/2009 86-91 ft BGS | 11/20/2009 91-96 ft BGS | 11/20/2009 96-101 ft BGS | 11/20/2009 101-106 ft BGS | 11/20/2009 106-116 ft BGS | 11/21/2009 116-126 ft BGS | 11/21/2009 126-136 ft BGS | 11/21/2009 136-146 ft BGS | 11/22/2009 146-156 ft BGS | 11/22/2009 156-166 ft BGS | 11/22/2009 166-176 ft BGS | 11/22/2009 176-186 ft BGS | 11/23/2009 186-196 ft BGS
VC | 1.0 U | 0.44 J | 0.47 J | 0.81 J | 0.76 J/0.73 J | 1.5 | 2.5 | 0.47 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U/1.0 U | 1.0 U | 1.0 U | 1.0 U
VAS-30 | 3/7/2010 65-70 ft BGS | 3/7/2010 78-86 ft BGS | 3/8/2010 91-96 ft BGS | 3/8/2010 96-106 ft BGS | 3/8/2010 106-116 ft BGS | 3/8/2010 116-126 ft BGS | 3/9/2010 126-136 ft BGS | 3/9/2010 136-146 ft BGS | 3/9/2010 146-156 ft BGS | 3/10/2010 156-166 ft BGS | 3/10/2010 166-176 ft BGS | 3/10/2010 176-186 ft BGS
TCE | 4.8 | 6.9 | 0.68 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U/1.0 U | 1.0 U | 1.0 U
MW-222 | 1/6/2010 100-105 ft BGS | 4/13/2010 100-105 ft BGS | 5/12/2015 100-105 ft BGS
VC | 2.8 | 2.7 | 5.6
VAS-44 | 1/30/2018 70-80 ft BGS | 1/31/2018 80-90 ft BGS | 1/31/2018 90-100 ft BGS | 2/1/2018 100-110 ft BGS | 2/1/2018 110-120 ft BGS | 2/5/2018 120-130 ft BGS | 2/5/2018 130-140 ft BGS | 2/6/2018 140-150 ft BGS
VC | 2.3 | 0.60 J | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U
MW-2238 | 4/13/2010 98.5-103.5 ft BGS | 10/24/2018 98.5-103.5 ft BGS
c-DCE | 170 | 130
VC | 98 | 85
MW-216 | 1/12/2010 57-62 ft BGS | 4/14/2010 57-62 ft BGS | 5/14/2015 57-62 ft BGS
c-DCE | 550 | 650 | 480
VC | 92 J | 130 | 350
VAS-14 | 11/17/2008 60-65 ft BGS | 11/17/2008 65-70 ft BGS | 11/17/2008 70-75 ft BGS | 11/18/2008 75-80 ft BGS | 11/18/2008 80-85 ft BGS | 11/18/2008 85-90 ft BGS | 11/18/2008 90-95 ft BGS | 11/19/2008 95-100 ft BGS
c-DCE | 390 | 290 | 270 | 130 J | 120 J | 74 J | 75 J | 28
VC | 120 | 50 | 50 | 28 J | 28 J | 2.1
VAS-29 | 3/3/2010 56-61 ft BGS | 3/3/2010 86-96 ft BGS | 3/3/2010 96-106 ft BGS | 3/4/2010 106-116 ft BGS | 3/4/2010 116-126 ft BGS | 3/4/2010 126-136 ft BGS | 3/4/2010 136-146 ft BGS | 3/5/2010 146-156 ft BGS | 3/5/2010 156-166 ft BGS | 3/5/2010 166-176 ft BGS | 3/6/2010 176-186 ft BGS
c-DCE | 1.7 | 250 | 350 | 210/220 | 150 | 74 | 19 | 4.3 | 1.5 | 0.25 J | 1.0 U/1.0 U
VC | 0.41 J | 96 | 140 | 64/63 | 38 | 19 | 11 | 1.9 | 0.75 J | 1.0 U | 1.0 U/1.0 U
MW-221 | 1/6/2010 81-86 ft BGS | 4/15/2010 81-86 ft BGS | 6/24/2015 81-86 ft BGS
c-DCE | 420 | 440 | 290
MECL | 9.1 J | 20 U | 10 U
VC | 53 | 87 | 110
VAS-9 | 11/19/2008 57-62 ft BGS | 11/19/2008 62-67 ft BGS | 11/19/2008 67-72 ft BGS | 11/19/2008 72-77 ft BGS | 11/19/2008 77-82 ft BGS | 11/19/2008 82-87 ft BGS | 11/20/2008 87-92 ft BGS | 11/20/2008 92-97 ft BGS
c-DCE | 88 | 51 | 49 | 23 | 25 | 30 | 45 | 23/21
TCE | 220 | 150 | 120 | 56 | 38 | 57 | 78 | 31/26
VC | 2.3 J | 1.6 J | 0.99 J | 0.58 J | 0.28 J | 0.37 J | 0.92 J | 0.67 J/0.63 J
VAS-27 | 11/12/2009 41-46 ft BGS | 11/16/2009 71-76 ft BGS | 11/17/2009 76-81 ft BGS | 11/17/2009 81-86 ft BGS | 11/17/2009 86-91 ft BGS | 11/17/2009 91-96 ft BGS | 11/17/2009 96-101 ft BGS | 11/18/2009 96-101 ft BGS
c-DCE | 0.38 J | 3.1 U/9.1 U | 210 J | 360 J | 330 J | 470 J | 150
VC | 1.0 U | 230/250 | 180 | 140 | 75 | 82 UJ | 32
VAS-42 | 8/17/2018 80-90 ft BGS | 8/20/2018 90-100 ft BGS | 8/21/2018 100-110 ft BGS | 8/21/2018 110-120 ft BGS | 8/21/2018 120-130 ft BGS | 8/22/2018 130-140 ft BGS | 8/22/2018 140-150 ft BGS
1,1,2,2-TTCA | 4.3 U | 4.2 J | 2.2 U | 1.3 U | 0.87 U | 0.13 U | 0.13 U
2-HEX | 18 U | 11 J | 9.0 U | 5.4 U | 3.6 U | 0.54 U | 0.54 U
c-DCE | 480 | 360 | 330 | 190 | 130 | 17 | 6.0
VC | 170 | 110 | 89 | 78 | 110 | 21 | 6.4
VAS-8 | 1/10/2009 62-67 ft BGS | 1/10/2009 67-72 ft BGS | 1/10/2009 72-77 ft BGS | 1/10/2009 77-82 ft BGS | 1/10/2009 82-87 ft BGS | 1/10/2009 87-92 ft BGS | 1/10/2009 92-97 ft BGS
1,1-DCA | 3.5 | 2.1 J | 1.5 J | 0.34 J | 0.24 J | 0.23 J | 1.0 U
c-DCE | 87 J | 85 | 71 | 23 | 21 | 17 | 16
VC | 20 J | 35 | 34 | 7.7 | 7.0 | 2.8 | 2.1 J
MW-215B | 7/24/2009 47-52 ft BGS | 1/5/2010 47-52 ft BGS | 5/13/2015 47-52 ft BGS
VC | 6.1/6.2 | 5.9 | 5.4
VAS-34 | 2/20/2018 60-70 ft BGS | 2/20/2018 70-80 ft BGS | 2/21/2018 80-90 ft BGS | 2/21/2018 90-100 ft BGS | 2/21/2018 100-110 ft BGS | 2/22/2018 110-120 ft BGS | 2/22/2018 120-130 ft BGS | 2/22/2018 130-140 ft BGS | 2/23/2018 140-150 ft BGS
c-DCE | 53 | 75 | 71 | 48 | 19/21 | 2.6 | 3.0 | 5.2 | 2.1
MECL | 2.0 | 9.8 J | 5.8 U | 2.4 U | 2.3 U/0.53 U | 0.53 U | 0.53 U | 0.53 U | 0.53 U
VC | 2.3 | 110 | 64 | 39 | 14/17 | 2.8 | 3.6 | 4.1 | 2.4
VAS-43 | 8/27/2018 60-70 ft BGS | 8/27/2018 70-80 ft BGS | 8/28/2018 80-90 ft BGS | 8/28/2018 90-100 ft BGS | 8/29/2018 100-110 ft BGS | 8/29/2018 110-120 ft BGS | 8/29/2018 120-130 ft BGS | 8/30/2018 130-140 ft BGS | 8/31/2018 140-150 ft BGS
c-DCE | 42 | 840 | 320 | 190 | 190 | 120 | 38 | 3.4 | 0.97 J
TCE | 5.4 | 10 U | 2.0 U | 1.0 U | 1.0 U | 0.20 U | 0.10 U | 0.10 U
VC | 1.4 | 73 | 56 | 44 | 53 | 31 | 27 | 17 | 12
VAS-33 | 1/11/2018 60-70 ft BGS | 1/16/2018 70-80 ft BGS | 1/16/2018 80-90 ft BGS | 1/17/2018 90-100 ft BGS
VC | 29 | 50/44 | 44 | 49
VAS-15 | 12/9/2008 60-65 ft BGS | 12/9/2008 65-70 ft BGS | 12/9/2008 70-75 ft BGS | 12/9/2008 75-80 ft BGS | 12/10/2008 80-85 ft BGS | 12/10/2008 85-90 ft BGS | 12/10/2008 90-95 ft BGS | 12/10/2008 95-100 ft BGS
c-DCE | 13 | 12 | 9.8 | 9.9 | 28 J | 24 | 130 | 150
TCE | 2.7 | 1.7 | 2.1 | 2.5 | 3.5 | 1.6 | 6.9 | 8.9
VC | 30 | 29 | 16 | 15 | 27 J | 28 | 27
VAS-15B | 12/13/2017 100-110 ft BGS | 12/13/2017 110-120 ft BGS | 12/14/2017 120-130 ft BGS | 12/14/2017 130-140 ft BGS | 12/15/2017 140-150 ft BGS
c-DCE | 47 | 120 | 16 | 6.8 | 0.78 J
VC | 31 | 70 | 27 | 27 | 15
MW-220 | 1/6/2010 81-86 ft BGS | 4/15/2010 81-86 ft BGS | 6/23/2015 81-86 ft BGS
Ben: ene | 31 | 59 | 38
c-DCE | 78 | 86 | 40
VC | 18 | 41 | 33
VAS-26 | 11/5/2009 61-66 ft BGS | 11/5/2009 66-71 ft BGS | 11/5/2009 71-76 ft BGS | 11/6/2009 76-81 ft BGS | 11/6/2009 81-86 ft BGS | 11/6/2009 86-91 ft BGS | 11/6/2009 91-96 ft BGS | 11/6/2009 96-101 ft BGS | 11/6/2009 101-106 ft BGS | 11/8/2009 106-116 ft BGS | 11/8/2009 116-126 ft BGS | 11/9/2009 126-136 ft BGS | 11/9/2009 136-146 ft BGS | 11/9/2009 146-156 ft BGS | 11/10/2009 156-166 ft BGS | 11/10/2009 166-176 ft BGS | 11/10/2009 176-186 ft BGS | 11/11/2009 186-196 ft BGS
Ben: ene | 50 U | 12 U | 17 U | 220 | 240 | 67/70 | 64 | 14 | 15 | 51 | 250 | 360 | 27 | 3.1 J | 2.5 U/3.3 U | 1.0 J | 0.69 J | 1.0
c-DCE | 50 U | 23 | 25 | 290 | 340 | 130/140 | 140 | 13 | 16 | 2.5 U | 31 | 120 | 12 | 1.8 J | 2.5 U/3.3 U | 1.0 J | 0.88 J | 0.34 J
ETB: | 710 | 81 | 110 | 260 | 210 | 110/110 | 72 | 27 | 19 | 2.5 U | 10 U | 20 U | 6.2 U | 4.0 U | 2.5 U/3.3 U | 2.0 U | 1.7 U | 0.30 J
PB: | 75 | 17 | 23 | 54 | 42 | 17/17 | 13 | 4.8 | 3.7 | 2.5 U | 10 U | 20 U | 6.2 U | 4.0 U | 2.5 U/3.3 U | 2.0 U | 1.7 U | 1.0 U
VC | 50 U | 14 | 12 J | 77 | 83 | 96/100 | 110 | 42 | 58 | 2.5 U | 66 | 260 | 140 | 87 | 65/63 | 44 | 35 | 34 J
VAS-35 | 12/19/2017 35-40 ft BGS | 12/18/2017 40-45 ft BGS | 12/19/2017 45-50 ft BGS | 12/19/2017 50-40 ft BGS | 12/19/2017 70-80 ft BGS | 12/20/2017 80-90 ft BGS | 12/20/2017 90-100 ft BGS | 12/21/2017 100-110 ft BGS | 12/21/2017 110-120 ft BGS | 1/3/2018 120-130 ft BGS | 1/3/2018 130-140 ft BGS | 1/4/2018 140-150 ft BGS
Ben: ene | 0.28 U | 0.28 U | 1.1 U/1.1 U | 140 U | 3.3 | 36 | 14 J | 35 | 26 | 1.3 | 0.41 J | 3.6 J/3.5 U | 3.1 U
c-DCE | 0.59 J | 0.46 J | 1.3 U/1.2 U | 150 U | 12 | 3.0 U | 6.0 U | 1.5 U | 3.0 U | 0.30 U | 0.83 J | 72/66 | 6.6 J
ETB: | 0.26 U | 0.26 U | 1.0 U/1.0 U | 1600 | 21 | 2.6 U | 5.2 U | 1.3 U | 2.6 U | 0.26 U | 0.26 U | 3.3 U/3.3 U | 2.9 U
VC | 0.45 U | 0.45 U | 1.8 U/1.8 U | 230 U | 6.7 | 4.5 U | 9.0 U | 2.3 U | 4.5 U | 0.45 U | 2.4 | 190/170 | 140
MW-210A | 12/22/2009 80-85 ft BGS | 4/14/2010 80-85 ft BGS | 5/15/2015 80-85 ft BGS | 10/3/2017 80-90 ft BGS
VC | 55 J | 54 J | 32 | 24
MW-213-VAS | 6/8/2009 57-62 ft BGS | 6/8/2009 62-67 ft BGS | 6/8/2009 67-72 ft BGS | 6/8/2009 72-77 ft BGS | 6/8/2009 77-82 ft BGS | 6/8/2009 82-87 ft BGS | 6/9/2009 87-92 ft BGS | 6/9/2009 92-97 ft BGS | 6/9/2009 97-102 ft BGS | 6/9/2009 102-107 ft BGS | 6/9/2009 107-112 ft BGS | 6/9/2009 112-117 ft BGS | 6/9/2009 117-122 ft BGS | 6/9/2009 122-127 ft BGS | 6/10/2009 127-132 ft BGS | 6/10/2009 132-137 ft BGS
VC | 1.0 U | 1.0 U | 3.8 | 3.7 | 4.3 | 4.6/4.6 | 4.2 | 4.3 | 11 | 17 | 2.3/2.2 | 2.2 | 0.45 J | 0.44 J | 4.4 | 4.7
VAS-36 | 10/8/2018 60-70 ft BGS | 10/8/2018 70-80 ft BGS | 10/9/2018 80-90 ft BGS | 10/9/2018 90-100 ft BGS | 10/10/2018 100-110 ft BGS | 10/10/2018 110-120 ft BGS | 10/11/2018 120-130 ft BGS | 10/11/2018 130-140 ft BGS | 10/11/2018 140-150 ft BGS
VC | 0.20 U/0.20 U | 3.1 | 8.2 | 27 | 39 | 13/13 | 3.7 | 1.5 | 1.3
MW-2158 | 7/24/2009 47-52 ft BGS | 1/5/2010 47-52 ft BGS | 5/13/2015 47-52 ft BGS
VC | 6.1/6.2 | 5.9 | 5.4
MW-210B | 12/23/2009 97-102 ft BGS | 4/14/2010 97-102 ft BGS | 5/15/2015 97-102 ft BGS | 10/3/2017 97-102 ft BGS
Ben: ene | 1100 | 880 | 390 | 4.0
VAS-37 | 9/19/2018 35-40 ft BGS | 9/19/2018 40-45 ft BGS | 9/19/2018 45-50 ft BGS | 9/20/2018 50-60 ft BGS | 9/20/2018 60-70 ft BGS | 9/21/2018 70-80 ft BGS | 9/24/2018 80-90 ft BGS | 9/24/2018 90-100 ft BGS
VC | 0.55 J | 0.20 U | 2.6 | 2.8/2.6 | 2.3 | 3.2 | 2.5 | 1.7
VAS-21B | 6/2/2009 87-92 ft BGS | 6/2/2009 92-97 ft BGS | 6/3/2009 97-102 ft BGS | 6/3/2009 102-107 ft BGS | 6/3/2009 107-112 ft BGS | 6/3/2009 112-117 ft BGS | 6/4/2009 117-122 ft BGS | 6/4/2009 122-127 ft BGS | 6/4/2009 127-132 ft BGS | 6/4/2009 132-137 ft BGS | 6/4/2009 137-142 ft BGS | 6/4/2009 142-147 ft BGS | 6/4/2009 147-152 ft BGS | 6/5/2009 147-152 ft BGS | 6/5/2009 152-157 ft BGS | 6/5/2009 157-162 ft BGS | 6/5/2009 162-167 ft BGS | 6/5/2009 167-172 ft BGS | 6/6/2009 172-177 ft BGS | 6/6/2009 177-182 ft BGS | 6/6/2009 182-187 ft BGS | 6/6/2009 187-192 ft BGS | 6/6/2009 192-197 ft BGS
Ben: ene | 40 | 95 | 580/550 | 540 | 4.8 | 3.3 | 1.3 U | 1.1 U | 1.9 U | 1.6 U | 1.4 U | 1.7 U | 1.5 J/1.5 J | 1.2 J | 0.78 J | 0.76 J | 0.95 J | 1.3 J | 1.7 U | 1.7 U | 1.0 U | 1.0 U
VC | 5.0 | 5.2 | 20 U/20 U | 20 U | 1.0 U | 1.0 U | 6.7 U | 5.5 U | 15 | 19 | 46 | 60 | 48/47 | 51 | 39 | 38 | 42 | 42 | 45 | 45 | 30 | 29
VAS-17 | 12/1/2008 50-55 ft BGS | 12/1/2008 55-60 ft BGS | 12/2/2008 60-65 ft BGS | 12/2/2008 65-70 ft BGS | 12/2/2008 70-75 ft BGS | 12/2/2008 75-80 ft BGS | 12/3/2008 80-85 ft BGS | 12/3/2008 85-90 ft BGS | 12/4/2008 90-95 ft BGS | 12/4/2008 95-100 ft BGS
VC | 0.95 J | 1.0 | 1.8 | 1.9 | 2.4 | 2.5 | 3.0 | 2.9 | 3.7 | 3.8
VAS-21 | 10/29/2008 44-49 ft BGS | 10/30/2008 49-54 ft BGS | 10/30/2008 54-59 ft BGS | 10/30/2008 59-64 ft BGS | 10/31/2008 64-69 ft BGS | 10/31/2008 69-74 ft BGS | 11/3/2008 74-79 ft BGS | 11/3/2008 79-84 ft BGS | 11/4/2008 84-89 ft BGS | 11/4/2008 89-94 ft BGS | 11/4/2008 94-99 ft BGS
Ben: ene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.0 | 11 | 3.7 | 1.4 U | 1.0 U | 1.7 | 300
VC | 1.4 | 1.8 | 0.76 J | 1.8 | 7.1 | 37 | 12 | 35 | 38 | 0.32 J | 10 U
VAS-19 | 12/15/2008 37-42 ft BGS | 12/15/2008 42-47 ft BGS | 12/16/2008 47-52 ft BGS | 12/16/2008 52-57 ft BGS | 12/16/2008 57-62 ft BGS | 12/16/2008 62-67 ft BGS | 12/16/2008 67-72 ft BGS | 12/16/2008 72-77 ft BGS | 12/16/2008 77-82 ft BGS | 12/16/2008 82-87 ft BGS | 12/16/2008 87-92 ft BGS | 12/16/2008 92-97 ft BGS
1,1-DCA | 0.22 J | 0.22 J | 5.0 UB/7.0 | 6.7 U | 1.5 J | 1.4 J | 1.8 | 2.1 | 3.0 | 2.3 | 1.2 | 0.93 J
VC | 40 | 40 | 140/140 | 150 | 88 | 65 J | 28 | 24 | 12 | 12 | 12 | 11
MW-209A | 7/22/2009 52-57 ft BGS | 1/5/2010 52-57 ft BGS | 5/13/2015 52-57 ft BGS | 10/17/2018 52-57 ft BGS
VC | 19 | 11 | 9.3 | 3.8
VAS-22c | 9/25/2018 60-70 ft BGS | 9/26/2018 70-80 ft BGS | 9/26/2018 80-90 ft BGS | 9/27/2018 90-100 ft BGS | 9/27/2018 100-110 ft BGS | 9/27/2018 110-120 ft BGS | 10/2/2018 120-130 ft BGS | 10/2/2018 130-140 ft BGS | 10/3/2018 140-150 ft BGS
VC | 6.3 | 3.4 | 4.1 | 2.7/3.2 | 6.1 | 2.0 | 4.0 | 6.5 | 5.5
VAS-25 | 12/7/2008 55-60 ft BGS | 12/7/2008 60-65 ft BGS | 12/7/2008 65-70 ft BGS | 12/7/2008 70-75 ft BGS | 12/7/2008 75-80 ft BGS | 12/7/2008 80-85 ft BGS | 12/7/2008 85-90 ft BGS | 12/8/2008 90-95 ft BGS | 12/8/2008 95-100 ft BGS
VC | 1.0 U | 1.0 U | 1.0 U | 0.22 J | 0.22 J | 0.30 J | 0.24 J | 6.5 | 8.8
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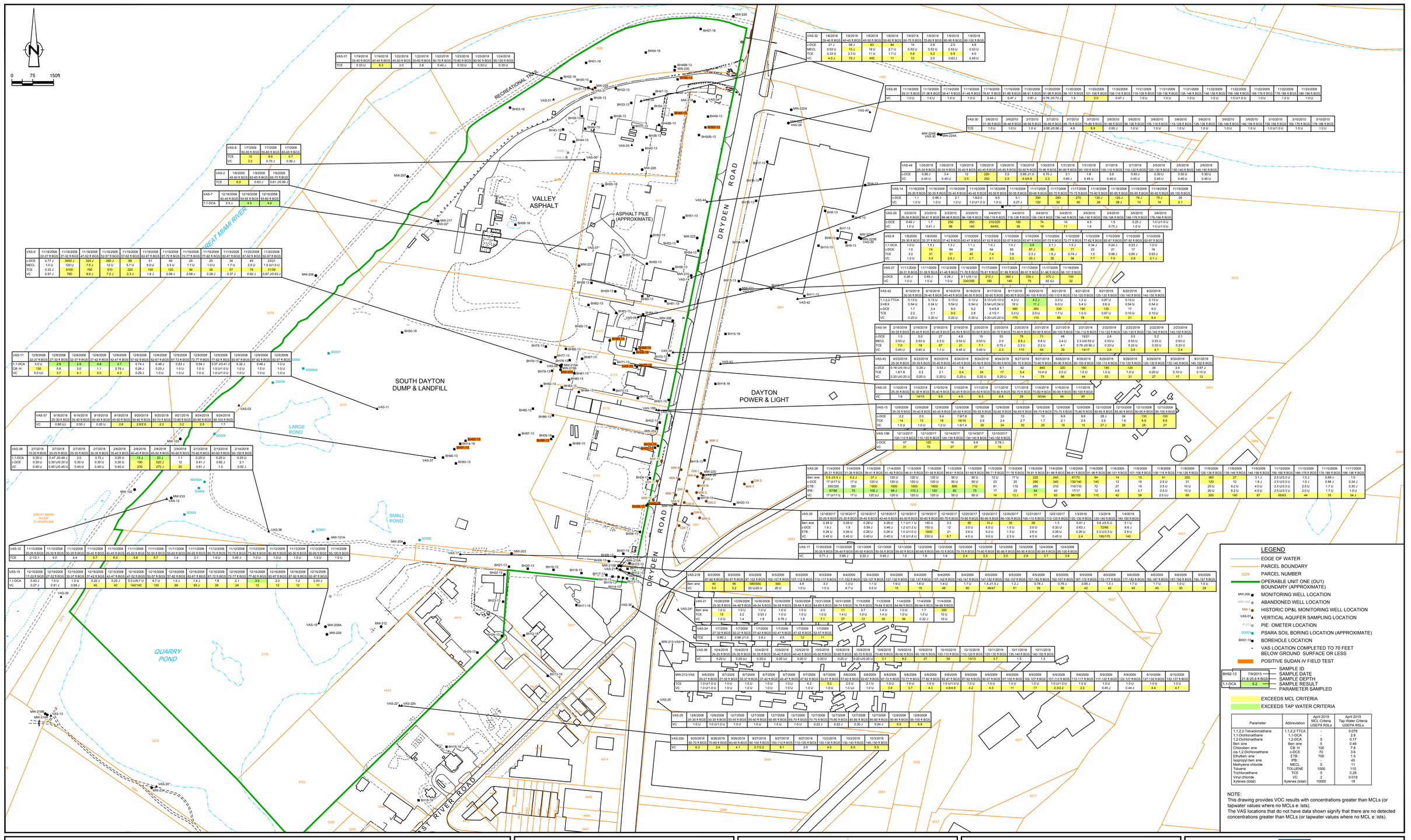
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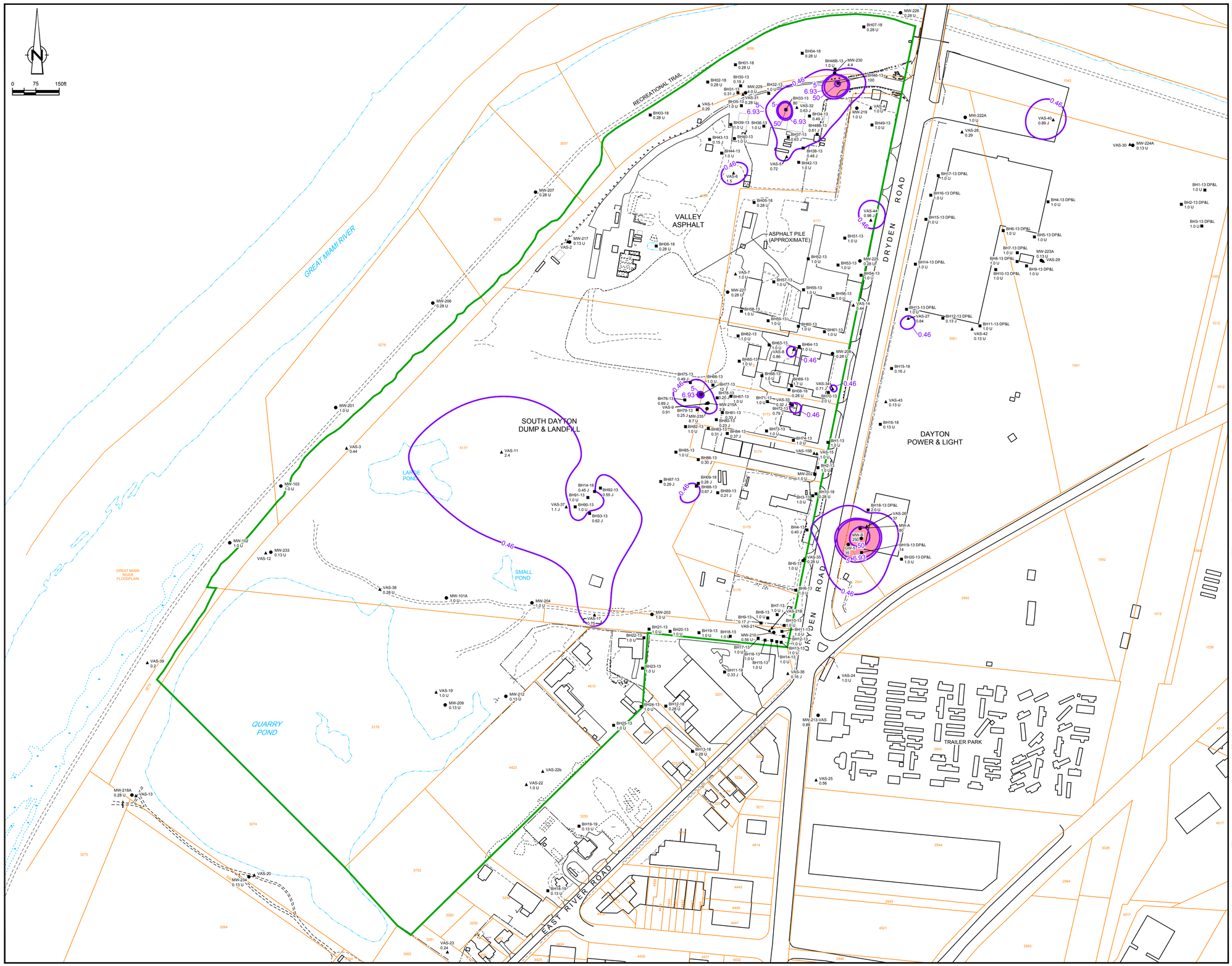
150ft
RECREATIONAL TRAIL
GREAT MIAMI RIVER
VALLEY ASPHALT
ASPHALT PILE (APPROXIMATE)
DRYDEN ROAD
SOUTH DAYTON DUMP & LANDFILL
DAYTON POWER & LIGHT
LARGE POND
SMALL POND
QUARRY POND
GREAT MIAMI RIVER FLOODPLAIN
ST RIVER ROAD
VAS-32 | 1/8/2018 | 1/8/2018 | 1/8/2018 | 1/8/2018 | 1/8/2018 | 1/9/2018 | 1/9/2018 | 1/9/2018
35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS
c-DCE | 21 J | 58 J | 83 | 84 | 19 | 2.8 | 2.0 | 4.8
MECL | 0.53 U | 15 J | 18 U | 2.7 U | 0.53 U | 0.53 U | 0.53 U | 0.53 U
TCE | 0.33 U | 3.3 U | 11 U | 17 U | 5.8 | 5.2 | 6.8 | 4.5
VC | 4.0 J | 75 J | 400 | 11 | 10 | 2.0 | 0.63 J | 0.45 U
VAS-31 | 1/19/2018 | 1/19/2018 | 1/22/2018 | 1/22/2018 | 1/22/2018 | 1/23/2018 | 1/23/2018 | 1/24/2018
35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS
TCE | 0.33 U | 8.3 | 3.0 | 2.8 | 0.42 J | 0.33 U | 0.33 U | 0.33 U
VAS-6 | 1/7/2009 | 1/7/2009 | 1/7/2009
50-55 ft BGS | 55-60 ft BGS | 60-65 ft BGS
TCE | 10 | 8.9 | 5.7
VC | 2.2 | 0.70 J | 0.36 J
VAS-2 | 1/8/2009 | 1/9/2009 | 1/9/2009
45-50 ft BGS | 60-65 ft BGS | 65-70 ft BGS
TCE | 6.0 | 0.83 J | 0.61 J0.59 J
VAS-7 | 12/19/2008 | 12/19/2008 | 12/19/2008
40-45 ft BGS | 50-55 ft BGS | 55-60 ft BGS
1,1-DCA | 2.5 J | 4.3 | 4.2
VAS-9 | 11/18/2008 | 11/18/2008 | 11/18/2008 | 11/18/2008 | 11/19/2008 | 11/19/2008 | 11/19/2008 | 11/19/2008 | 11/19/2008 | 11/20/2008 | 11/20/2008
22-27 ft BGS | 27-32 ft BGS | 37-42 ft BGS | 42-52 ft BGS | 52-57 ft BGS | 57-62 ft BGS | 62-67 ft BGS | 67-72 ft BGS | 72-77 ft BGS | 77-82 ft BGS | 82-87 ft BGS | 87-92 ft BGS | 92-97 ft BGS
c-DCE | 0.77 J | 3900 J | 320 J | 260 J | 66 | 51 | 45 | 23 | 25 | 30 | 45 | 2321
MECL | 1.0 U | 120 U | 7.5 J | 12 U | 5.7 U | 5.0 U | 3.3 U | 1.7 U | 1.0 U | 1.7 U | 2.5 U | 1.0 U/1.0 U
TCE | 0.33 J | 5100 | 790 | 610 | 220 | 150 | 56 | 38 | 57 | 76 | 110 | 3126
VC | 0.97 J | 780 | 84 J | 7.2 J | 2.3 J | 1.6 J | 0.99 J | 0.58 J | 0.28 J | 0.37 J | 0.92 J | 0.67 J0.63 J
VAS-11 | 12/8/2008 | 12/8/2008 | 12/8/2008 | 12/8/2008 | 12/8/2008 | 12/8/2008 | 12/8/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008
22-27 ft BGS | 27-32 ft BGS | 32-37 ft BGS | 37-42 ft BGS | 42-47 ft BGS | 47-52 ft BGS | 52-62 ft BGS | 62-67 ft BGS | 67-72 ft BGS | 72-77 ft BGS | 77-82 ft BGS | 82-87 ft BGS | 87-92 ft BGS | 92-97 ft BGS
1,1-DCA | 5.0 U | 2.8 | 2.8 | 4.8 | 0.74 J | 0.48 J | 0.53 U | 0.54 J | 0.37 J0.41 J | 0.32 J | 0.48 J | 1.4 J
CB:H | 130 | 5.8 | 3.0 | 1.1 | 0.76 J | 0.26 J | 0.23 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U
VC | 5.0 U | 3.7 | 4.1 | 5.0 | 4.3 | 0.29 J | 1.0 U | 1.0 U | 1.0 U/1.0 U | 1.0 U | 1.0 U | 1.0 U
VAS-37 | 9/18/2018 | 9/19/2018 | 9/19/2018 | 9/19/2018 | 9/20/2018 | 9/20/2018 | 9/21/2018 | 9/24/2018 | 9/24/2018
25-30 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS
VC | 0.80 U | 0.55 J | 0.20 U | 2.6 | 2.8/2.6 | 2.3 | 3.2 | 2.5 | 1.7
VAS-38 | 2/7/2018 | 2/7/2018 | 2/7/2018 | 2/7/2018 | 2/8/2018 | 2/8/2018 | 2/8/2018 | 2/9/2018 | 2/13/2018 | 2/13/2018 | 2/14/2018
15-20 ft BGS | 20-25 ft BGS | 25-30 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS
1,1-DCA | 0.25 U | 0.47 J0.48 J | 2.0 | 0.72 J | 0.25 U | 13 J | 20 | 0.78 J | 0.25 U | 0.25 U | 0.25 U
c-DCE | 0.30 U | 0.30 U/0.30 U | 0.30 U | 0.30 U | 0.30 U | 190 | 520 J | 12 | 0.41 J | 0.62 J | 0.52 J
VC | 0.45 U | 0.45 U/0.45 U | 0.45 U | 0.30 U | 0.45 U | 230 | 270 J | 20 | 0.81 J | 1.5 | 1.2
VAS-12 | 11/10/2008 | 11/10/2008 | 11/10/2008 | 11/10/2008 | 11/11/2008 | 11/11/2008 | 11/11/2008 | 11/11/2008 | 11/12/2008 | 11/12/2008 | 11/12/2008 | 11/13/2008 | 11/13/2008 | 11/14/2008
25-26 ft BGS | 25-26 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-55 ft BGS | 55-60 ft BGS | 60-65 ft BGS | 65-70 ft BGS | 70-75 ft BGS | 75-80 ft BGS | 80-85 ft BGS | 85-90 ft BGS | 90-95 ft BGS | 95-100 ft BGS
TCE | 2.1/2.1 | 4.0 | 4.4 | 5.7 | 6.0 | 5.6 | 5.7 | 1.4 | 2.1 | 1.0 U | 0.48 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U
VAS-19 | 12/15/2008 | 12/15/2008 | 12/15/2008 | 12/15/2008 | 12/15/2008 | 12/16/2008 | 12/16/2008 | 12/16/2008 | 12/16/2008 | 12/16/2008 | 12/16/2008 | 12/16/2008 | 12/16/2008 | 12/16/2008
17-22 ft BGS | 22-27 ft BGS | 27-32 ft BGS | 32-37 ft BGS | 37-42 ft BGS | 42-47 ft BGS | 47-52 ft BGS | 52-57 ft BGS | 57-62 ft BGS | 62-67 ft BGS | 67-72 ft BGS | 72-77 ft BGS | 77-82 ft BGS | 82-87 ft BGS | 87-92 ft BGS | 92-97 ft BGS
1,1-DCA | 0.43 J | 1.0 U | 1.0 U | 0.22 J | 0.22 J | 5.0 U/6.7 U | 6.7 U | 1.5 J | 1.4 J | 1.8 | 2.1 | 3.0 | 2.3 | 1.2 | 0.93 J
VC | 0.27 J | 0.51 J | 0.66 J | 40 | 40 | 140/140 | 150 | 88 | 69 J | 28 | 24 | 12 | 12 | 12 | 11
VAS-44 | 1/25/2018 | 1/26/2018 | 1/29/2018 | 1/29/2018 | 1/29/2018 | 1/30/2018 | 1/30/2018 | 1/31/2018 | 1/31/2018 | 2/1/2018 | 2/1/2018 | 2/5/2018 | 2/5/2018 | 2/6/2018
25-30 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS | 100-110 ft BGS | 110-120 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
c-DCE | 0.89 J | 3.4 | 12 | 220 | 3.5 | 0.95 J/1.0 | 0.75 J | 3.1 | 1.8 | 3.6 | 0.63 J | 0.30 U | 0.30 U | 0.30 U
VC | 0.45 U | 0.45 U | 2.5 | 250 | 2.9 | 0.58 J | 2.3 | 0.60 J | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 0.45 U
VAS-14 | 11/16/2008 | 11/16/2008 | 11/16/2008 | 11/16/2008 | 11/16/2008 | 11/16/2008 | 11/17/2008 | 11/17/2008 | 11/17/2008 | 11/18/2008 | 11/18/2008 | 11/18/2008 | 11/18/2008
25-30 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-55 ft BGS | 55-60 ft BGS | 65-70 ft BGS | 70-75 ft BGS | 75-80 ft BGS | 80-85 ft BGS | 85-90 ft BGS | 90-95 ft BGS | 95-100 ft BGS
c-DCE | 1.1 | 0.96 J | 2.1 | 1.8/2.0 | 9.9 | 5.1 | 390 | 290 | 270 | 130 J | 120 J | 74 J | 75 J | 28
VC | 1.0 U | 0.45 U | 1.0 U | 1.0 U/1.0 U | 1.0 U | 0.27 J | 120 | 50 | 50 | 28 J | 13 | 14 | 2.1
VAS-20 | 3/2/2010 | 3/3/2010 | 3/3/2010 | 3/3/2010 | 3/3/2010 | 3/4/2010 | 3/4/2010 | 3/4/2010 | 3/5/2010 | 3/5/2010 | 3/5/2010 | 3/6/2010
36-38 ft BGS | 56-61 ft BGS | 56-96 ft BGS | 96-106 ft BGS | 106-116 ft BGS | 118-136 ft BGS | 136-154 ft BGS | 154-144 ft BGS | 146-156 ft BGS | 156-166 ft BGS | 166-176 ft BGS | 176-186 ft BGS
c-DCE | 0.49 J | 1.7 | 250 | 350 | 210/220 | 160 | 74 | 19 | 4.3 | 1.5 | 0.25 J | 1.0 U/1.0 U
VC | 1.0 U | 0.41 J | 98 | 140 | 64/53 | 38 | 19 | 11 | 1.9 | 0.75 J | 1.0 U | 1.0 U/1.0 U
VAS-8 | 1/8/2009 | 1/8/2009 | 1/10/2009 | 1/10/2009 | 1/10/2009 | 1/10/2009 | 1/10/2009 | 1/10/2009 | 1/10/2009 | 1/10/2009 | 1/10/2009
25-30 ft BGS | 30-32 ft BGS | 37-42 ft BGS | 42-47 ft BGS | 47-52 ft BGS | 52-57 ft BGS | 62-67 ft BGS | 67-72 ft BGS | 72-77 ft BGS | 77-82 ft BGS | 82-87 ft BGS | 87-92 ft BGS | 92-97 ft BGS
1,1-DCA | 1.0 U | 1.5 J | 1.2 J | 1.1 J | 1.0 J | 1.0 J | 3.6 | 2.1 J | 1.5 J | 0.34 J | 0.24 J | 0.23 J | 1.0 U
c-DCE | 1.5 | 74 | 64 | 59 | 64 | 65 | 87 J | 85 | 71 | 23 | 21 | 17 | 16
TCE | 3.2 | 51 | 51 | 42 | 7.4 | 3.8 | 2.3 J | 1.6 J | 0.74 J | 1.0 | 0.98 J | 0.65 J | 0.63 J
VC | 1.0 U | 1.0 U | 2.8 J | 2.7 | 3.1 | 3.0 | 20 J | 36 | 7.7 | 7.0 | 2.8 | 2.1 J
VAS-27 | 11/11/2009 | 11/11/2009 | 11/12/2009 | 11/16/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 | 11/17/2009 | 11/18/2009
26-31 ft BGS | 31-36 ft BGS | 31-36 ft BGS | 41-46 ft BGS | 71-76 ft BGS | 76-81 ft BGS | 81-86 ft BGS | 86-91 ft BGS | 91-96 ft BGS | 96-101 ft BGS
c-DCE | 0.26 J | 0.65 J | 0.38 J | 9.1 U/9.1 U | 210 J | 360 J | 330 J | 470 J | 150 | 32
VC | 1.0 U | 1.0 U | 1.0 U | 230/250 | 180 | 140 | 75 | 82 UJ | 32
VAS-42 | 8/15/2018 | 8/16/2018 | 8/16/2018 | 8/16/2018 | 8/17/2018 | 8/17/2018 | 8/20/2018 | 8/21/2018 | 8/21/2018 | 8/21/2018 | 8/22/2018 | 8/22/2018
30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 90-100 ft BGS | 100-110 ft BGS | 110-120 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
1,1,2,2-TTCA | 0.13 U | 0.13 U | 0.13 U | 0.13 U | 0.13 U/0.13 U | 4.3 U | 4.2 J | 2.2 U | 1.3 U | 0.87 U | 0.13 U | 0.13 U
2-HEX | 0.54 U | 0.54 U | 0.54 U | 0.54 U | 0.54 U/0.54 U | 18 U | 11 J | 9.0 U | 5.4 U | 3.6 U | 0.54 U | 0.54 U
c-DCE | 1.7 | 3.4 | 8.0 | 5.2 | 5.4/5.8 | 480 | 360 | 330 | 190 | 130 | 17 | 6.0
TCE | 2.2 | 3.1 | 9.0 | 2.8 | 2.1/2.1 | 3.3 U | 2.0 U | 1.7 U | 1.0 U | 0.87 U | 0.10 U | 0.10 U
VC | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U/0.20 U | 170 | 110 | 89 | 78 | 110 | 21 | 6.4
VAS-34 | 2/16/2018 | 2/16/2018 | 2/19/2018 | 2/19/2018 | 2/20/2018 | 2/20/2018 | 2/21/2018 | 2/21/2018 | 2/21/2018 | 2/22/2018 | 2/22/2018 | 2/23/2018
30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS | 100-110 ft BGS | 110-120 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
c-DCE | 1.0 | 5.0 | 27 | 4.8 | 15 | 53 | 78 | 71 | 48 | 19/21 | 2.6 | 3.0 | 5.2 | 2.1
MECL | 0.53 U | 0.53 U | 2.3 U | 0.53 U | 0.53 U | 2.0 | 3.8 J | 5.8 U | 2.4 U | 2.3 U/3.5 U | 0.53 U | 0.53 U | 0.53 U | 0.53 U
TCE | 7.0 | 18 | 57 | 21 | 7.1 | 0.72 J | 3.3 U | 2.2 U | 4.1 | 0.79 J/0.90 J | 0.33 U | 0.33 U | 0.33 U | 0.33 U
VC | 0.45 U | 0.45 U | 1.1 U | 0.45 U | 0.45 U | 110 | 64 | 39 | 14/17 | 2.8 | 3.6 | 4.1 | 2.4 | 2.4
VAS-43 | 8/23/2018 | 8/23/2018 | 8/23/2018 | 8/24/2018 | 8/24/2018 | 8/24/2018 | 8/27/2018 | 8/27/2018 | 8/28/2018 | 8/28/2018 | 8/29/2018 | 8/29/2018 | 8/29/2018 | 8/30/2018 | 8/31/2018
25-30 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS | 100-110 ft BGS | 110-120 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
c-DCE | 0.16 U/0.16 U | 0.29 J | 0.53 J | 1.6 | 5.1 | 6.1 | 42 | 640 | 320 | 190 | 110 | 38 | 3.4 | 0.97 U
TCE | 1.6/1.6 | 2.2 | 2.1 | 5.4 | 24 | 17 | 5.4 | 10.4 U | 2.0 U | 1.0 U | 1.0 U | 0.20 U | 0.10 U | 0.10 U
VC | 0.20 U/0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 1.4 | 73 | 56 | 44 | 53 | 31 | 27 | 17 | 12
VAS-33 | 1/10/2018 | 1/10/2018 | 1/10/2018 | 1/10/2018 | 1/11/2018 | 1/11/2018 | 1/11/2018 | 1/16/2018 | 1/16/2018 | 1/17/2018
25-30 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS
VC | 1.6 | 14/15 | 9.5 | 4.5 | 6.3 | 6.8 | 29 | 50/44 | 44 | 49
VAS-15 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/9/2008 | 12/10/2008 | 12/10/2008 | 12/10/2008 | 12/10/2008
30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-55 ft BGS | 55-60 ft BGS | 60-65 ft BGS | 65-70 ft BGS | 70-75 ft BGS | 75-80 ft BGS | 80-85 ft BGS | 85-90 ft BGS | 90-95 ft BGS | 95-100 ft BGS
c-DCE | 2.2 | 2.0 | 5.4 | 7.9/7.9 | 30 | 33 | 13 | 12 | 9.8 | 9.9 | 39 J | 24 | 130 | 150
TCE | 14 | 13 | 18 | 16/16 | 2.9 | 2.4 | 2.7 | 1.7 | 2.1 | 2.5 | 3.5 | 1.6 | 6.9 | 8.9
VC | 1.0 U | 1.0 U | 1.0 U | 1.5/1.4 | 29 | 24 | 30 | 29 | 16 | 15 | 27 J | 28 | 28 | 27
VAS-15B | 12/13/2017 | 12/13/2017 | 12/14/2017 | 12/14/2017 | 12/15/2017
100-110 ft BGS | 110-120 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
c-DCE | 47 | 120 | 16 | 6.8 | 0.78 J
VC | 31 | 70 | 27 | 27 | 18
VAS-26 | 11/4/2009 | 11/4/2009 | 11/4/2009 | 11/5/2009 | 11/5/2009 | 11/5/2009 | 11/5/2009 | 11/5/2009 | 11/6/2009 | 11/6/2009 | 11/6/2009 | 11/6/2009 | 11/6/2009 | 11/8/2009 | 11/8/2009 | 11/9/2009 | 11/9/2009 | 11/9/2009 | 11/10/2009 | 11/10/2009 | 11/10/2009 | 11/11/2009
26-31 ft BGS | 31-36 ft BGS | 36-41 ft BGS | 41-46 ft BGS | 46-51 ft BGS | 51-56 ft BGS | 56-61 ft BGS | 61-66 ft BGS | 66-71 ft BGS | 71-76 ft BGS | 76-81 ft BGS | 81-86 ft BGS | 86-91 ft BGS | 91-96 ft BGS | 96-101 ft BGS | 101-106 ft BGS | 106-116 ft BGS | 116-126 ft BGS | 126-136 ft BGS | 136-146 ft BGS | 146-156 ft BGS | 156-166 ft BGS
Ben: ene | 5.9 J/5.3 J | 6.2 J | 37 J | 120 U | 120 U | 50 U | 50 U | 12 J | 17 U | 220 | 240 | 67/70 | 64 | 14 | 15 | 51 | 250 | 300 | 27 | 3.1 J | 2.5 U/3.3 U
c-DCE | 17 U/17 U | 17 U | 120 U | 120 U | 50 U | 50 U | 23 | 25 | 290 | 340 | 150/140 | 140 | 13 | 16 | 2.5 U | 31 | 120 | 12 | 1.8 J | 2.5 U/3.3 U
cTB: | 330/320 | 350 | 1900 | 1600 | 1600 | 890 | 710 | 81 | 110 | 260 | 210 | 110/110 | 72 | 27 | 19 | 2.5 U | 10 U | 20 U | 6.2 U | 4.0 U | 2.5 U/3.3 U
tPS: | 67/66 | 70 | 100 J | 98 J | 110 J | 120 | 82 | 75 | 17 | 23 | 54 | 42 | 17/17 | 12 | 4.8 | 3.7 | 2.5 U | 10 U | 20 U | 6.2 U | 4.0 U
VC | 17 U/17 U | 17 U | 120 U | 120 U | 120 U | 120 U | 50 U | 50 U | 14 | 12 J | 77 | 83 | 90/100 | 110 | 42 | 56 | 2.5 U | 66 | 260 | 140 | 87
VAS-35 | 12/18/2017 | 12/18/2017 | 12/18/2017 | 12/18/2017 | 12/19/2017 | 12/19/2017 | 12/19/2017 | 12/20/2017 | 12/20/2017 | 12/20/2017 | 12/21/2017 | 12/21/2017 | 1/3/2018 | 1/3/2018 | 1/4/2018
25-26 ft BGS | 26-30 ft BGS | 30-35 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS | 110-118 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
Ben: ene | 0.28 U | 0.28 U | 0.28 U | 0.28 U | 1.1 U/1.1 U | 140 U | 3.3 | 36 | 14 J | 35 | 26 | 1.3 | 0.41 J | 3.6 J/3.5 U | 3.1 U
c-DCE | 1.8 J | 1.9 | 0.59 J | 0.46 J | 1.2 U/1.2 U | 150 U | 12 | 3.0 U | 6.0 U | 1.5 U | 3.0 U | 0.30 U | 0.63 J | 72/66 | 6.6 J
ETB: | 0.26 U | 0.26 U | 0.26 U | 0.26 U | 1.0 U/1.0 U | 1600 | 21 | 2.6 U | 5.2 U | 1.3 U | 2.6 U | 0.26 U | 0.26 U | 3.3 U/3.3 U | 2.9 U
VC | 0.45 U | 0.45 U | 0.45 U | 0.45 U | 1.8 U/1.8 U | 230 U | 6.7 | 4.5 U | 9.0 U | 2.3 U | 4.5 U | 0.45 U | 2.4 | 190/170 | 140
VAS-17 | 11/20/2008 | 11/20/2008 | 12/1/2008 | 12/1/2008 | 12/1/2008 | 12/2/2008 | 12/2/2008 | 12/2/2008 | 12/3/2008 | 12/3/2008 | 12/4/2008 | 12/4/2008
30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-55 ft BGS | 55-60 ft BGS | 60-65 ft BGS | 65-70 ft BGS | 70-75 ft BGS | 75-80 ft BGS | 80-85 ft BGS | 85-90 ft BGS | 90-95 ft BGS | 95-100 ft BGS
VC | 0.71 J | 0.85 J | 0.22 J | 0.95 J | 1.0 | 1.8 | 1.9 | 2.4 | 2.5 | 3.0 | 2.9 | 3.7 | 3.8
VAS-21B | 6/2/2009 | 6/2/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/3/2009 | 6/4/2009 | 6/4/2009 | 6/4/2009 | 6/4/2009 | 6/4/2009 | 6/4/2009 | 6/5/2009 | 6/5/2009 | 6/5/2009 | 6/5/2009 | 6/5/2009 | 6/5/2009 | 6/6/2009 | 6/6/2009 | 6/6/2009 | 6/6/2009
87-92 ft BGS | 92-97 ft BGS | 97-102 ft BGS | 102-107 ft BGS | 107-112 ft BGS | 112-117 ft BGS | 117-122 ft BGS | 122-127 ft BGS | 127-132 ft BGS | 132-137 ft BGS | 137-142 ft BGS | 142-147 ft BGS | 147-152 ft BGS | 152-157 ft BGS | 157-162 ft BGS | 162-167 ft BGS | 167-172 ft BGS | 172-177 ft BGS | 177-182 ft BGS | 182-187 ft BGS | 187-192 ft BGS | 192-197 ft BGS
Ben: ene | 40 | 95 | 380/530 | 540 | 4.8 | 3.3 | 1.3 U | 1.1 U | 1.9 U | 1.0 U | 1.4 U | 1.7 U | 1.5 J/1.5 J | 1.3 J | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U
VC | 5.0 | 5.2 | 20 U/20 U | 20 U | 1.0 U | 6.7 U | 5.5 U | 15 | 19 | 46 | 60 | 48/47 | 51 | 39 | 38 | 42 | 42 | 45 | 45 | 50 | 29
VAS-21 | 10/28/2008 | 10/29/2008 | 10/30/2008 | 10/30/2008 | 10/30/2008 | 10/31/2008 | 10/31/2008 | 11/3/2008 | 11/3/2008 | 11/4/2008 | 11/4/2008
25-30 ft BGS | 30-35 ft BGS | 44-49 ft BGS | 49-54 ft BGS | 54-59 ft BGS | 59-64 ft BGS | 64-69 ft BGS | 69-74 ft BGS | 74-79 ft BGS | 79-84 ft BGS | 84-89 ft BGS | 89-94 ft BGS | 94-99 ft BGS
Ben: ene | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.0 | 15 | 3.7 | 1.4 U | 1.0 U | 1.7 | 300
TCE | 15 | 2.2 | 0.53 J | 1.0 U | 1.0 U | 1.0 U | 1.4 U | 1.0 U | 1.4 U | 1.0 U | 1.0 U | 10 U
VC | 1.0 U | 1.4 | 1.8 | 0.76 J | 1.8 | 7.1 | 37 | 12 | 35 | 36 | 0.32 J | 10 U
VAS-24 | 1/7/2009 | 1/7/2009 | 1/7/2009 | 1/7/2009 | 1/7/2009 | 1/7/2009
27-32 ft BGS | 32-37 ft BGS | 37-42 ft BGS | 42-47 ft BGS | 47-52 ft BGS | 52-57 ft BGS
TCE | 0.80 J | 0.96 J/1.0 | 3.8 J | 4.5 | 12 | 11
VAS-36 | 10/4/2018 | 10/4/2018 | 10/4/2018 | 10/5/2018 | 10/5/2018 | 10/5/2018 | 10/8/2018 | 10/8/2018 | 10/9/2018 | 10/9/2018 | 10/9/2018 | 10/10/2018 | 10/10/2018 | 10/11/2018 | 10/11/2018 | 10/11/2018
25-26 ft BGS | 26-30 ft BGS | 30-35 ft BGS | 35-40 ft BGS | 40-45 ft BGS | 45-50 ft BGS | 50-60 ft BGS | 60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS | 100-110 ft BGS | 110-120 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
VC | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U | 0.20 U/0.20 U | 3.1 | 8.2 | 27 | 39 | 13/13 | 3.7 | 1.5 | 1.3
MW-213-VAS | 6/6/2009 | 6/7/2009 | 6/7/2009 | 6/7/2009 | 6/7/2009 | 6/7/2009 | 6/8/2009 | 6/8/2009 | 6/8/2009 | 6/8/2009 | 6/8/2009 | 6/9/2009 | 6/9/2009 | 6/9/2009 | 6/9/2009 | 6/9/2009 | 6/9/2009 | 6/9/2009 | 6/9/2009 | 6/10/2009 | 6/10/2009
20-27 ft BGS | 27-32 ft BGS | 32-37 ft BGS | 37-42 ft BGS | 42-47 ft BGS | 47-52 ft BGS | 52-57 ft BGS | 57-62 ft BGS | 62-67 ft BGS | 67-72 ft BGS | 72-77 ft BGS | 77-82 ft BGS | 82-87 ft BGS | 87-92 ft BGS | 92-97 ft BGS | 97-102 ft BGS | 102-107 ft BGS | 107-112 ft BGS | 112-117 ft BGS | 117-122 ft BGS | 122-127 ft BGS | 127-132 ft BGS | 132-137 ft BGS
TCE | 1.0 U/1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 4.2 | 5.2 | 2.0 U | 2.1 | 1.0 U | 1.0 U | 1.0 U/1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U/1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U
VC | 1.0 U/1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 4.2 | 5.2 | 2.0 U | 2.1 | 1.0 U | 3.8 | 3.7 | 4.3 | 4.6/4.6 | 4.2 | 4.3 | 11 | 17 | 2.3/2.2 | 2.2 | 0.45 J | 0.44 J | 4.4 | 4.7
VAS-25 | 12/6/2008 | 12/6/2008 | 12/7/2008 | 12/7/2008 | 12/7/2008 | 12/7/2008 | 12/7/2008 | 12/7/2008 | 12/7/2008 | 12/8/2008 | 12/8/2008
25-30 ft BGS | 30-35 ft BGS | 50-55 ft BGS | 55-60 ft BGS | 60-65 ft BGS | 65-70 ft BGS | 70-75 ft BGS | 75-80 ft BGS | 80-85 ft BGS | 85-90 ft BGS | 90-95 ft BGS | 95-100 ft BGS
VC | 1.0 U | 1.0 U/1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.22 J | 0.22 J | 0.30 J | 0.24 J | 6.5 | 6.8
VAS-22b | 9/25/2018 | 9/26/2018 | 9/26/2018 | 9/27/2018 | 9/27/2018 | 9/27/2018 | 10/2/2018 | 10/2/2018 | 10/3/2018
60-70 ft BGS | 70-80 ft BGS | 80-90 ft BGS | 90-100 ft BGS | 100-110 ft BGS | 110-120 ft BGS | 120-130 ft BGS | 130-140 ft BGS | 140-150 ft BGS
VC | 6.3 | 3.4 | 4.1 | 2.7/3.2 | 8.1 | 2.0 | 4.0 | 6.5 | 5.5
MW-226 | BH07-18 | BH04-18 | BH01-18 | BH46B-13 | MW-230 | BH47-13 | BH45-13 | BH48B-13 | BH49-13 | BH50-13 | BH02-18 | BH03-18 | BH30-13 | MW-220 | MW-231 | BH31-13 | BH32-13 | BH33-13 | BH34-13 | BH35-13 | BH36-13 | BH37-13 | BH38-13 | BH39-13 | BH40-13 | BH41-13 | BH42-13 | BH43-13 | BH44-13 | MW-228 | BH05-18 | BH06-18 | MW-227 | BH07-13 | BH55-13 | BH56-13 | BH57-13 | BH58-13 | BH59-13 | BH60-13 | BH61-13 | BH62-13 | BH63-13 | BH64-13 | MW-208 | BH65-13 | BH66-13 | BH67-13 | BH68-13 | BH69-13 | BH70-13 | BH71-13 | BH72-13 | BH73-13 | BH74-13 | BH75-13 | BH76-13 | BH77-13 | BH78-13 | BH79-13 | BH80-13 | BH81-13 | BH82-13 | BH83-13 | BH84-13 | BH85-13 | BH86-13 | BH87-13 | BH88-13 | BH89-13 | BH90-13 | BH91-13 | BH92-13 | BH93-13 | BH94-13 | BH95-13 | BH96-13 | BH97-13 | BH98-13 | BH99-13 | BH100-13 | BH101-13 | BH102-13 | BH103-13 | BH104-13 | BH105-13 | BH106-13 | BH107-13 | BH108-13 | BH109-13 | BH110-13 | BH111-13 | BH112-13 | BH113-13 | BH114-13 | BH115-13 | BH116-13 | BH117-13 | BH118-13 | BH119-13 | BH120-13 | BH121-13 | BH122-13 | BH123-13 | BH124-13 | BH125-13 | BH126-13 | BH127-13 | BH128-13 | BH129-13 | BH130-13 | BH131-13 | BH132-13 | BH133-13 | BH134-13 | BH135-13 | BH136-13 | BH137-13 | BH138-13 | BH139-13 | BH140-13 | BH141-13 | BH142-13 | BH143-13 | BH144-13 | BH145-13 | BH146-13 | BH147-13 | BH148-13 | BH149-13 | BH150-13 | BH151-13 | BH152-13 | BH153-13 | BH154-13 | BH155-13 | BH156-13 | BH157-13 | BH158-13 | BH159-13 | BH160-13 | BH161-13 | BH162-13 | BH163-13 | BH164-13 | BH165-13 | BH166-13 | BH167-13 | BH168-13 | BH169-13 | BH170-13 | BH171-13 | BH172-13 | BH173-13 | BH174-13 | BH175-13 | BH176-13 | BH177-13 | BH178-13 | BH179-13 | BH180-13 | BH181-13 | BH182-13 | BH183-13 | BH184-13 | BH185-13 | BH186-13 | BH187-13 | BH188-13 | BH189-13 | BH190-13 | BH191-13 | BH192-13 | BH193-13 | BH194-13 | BH195-13 | BH196-13 | BH197-13 | BH198-13 | BH199-13 | BH200-13 | BH201-13 | BH202-13 | BH203-13 | BH204-13 | BH205-13 | BH206-13 | BH207-13 | BH208-13 | BH209-13 | BH210-13 | BH211-13 | BH212-13 | BH213-13 | BH214-13 | BH215-13 | BH216-13 | BH217-13 | BH218-13 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-1 | MW-2 | GW-1 | GW-2 | GW-3 | GW-4 | GW-5 | GW-6 | GW-7 | GW-8 | MW-201 | MW-202 | MW-203 | MW-204 | MW-205 | MW-206 | MW-207 | MW-208 | MW-209 | MW-209A | MW-210 | MW-211 | MW-212 | MW-213-VAS | MW-214 | MW-215 | MW-216 | MW-217 | MW-218 | MW-219 | MW-220 | MW-221 | MW-222 | MW-223 | MW-224 | MW-225 | MW-226 | MW-227 | MW-228 | MW-229 | MW-230 | MW-231 | MW-232 | MW-233 | MW-234 | MW-101A | MW-102 | MW-103 | MW-104 | MW-105 | MW-106 | MW-107 | MW-108 | MW-109 | MW-110 | MW-111 | MW-112 | MW-113 | MW-114 | MW-115 | MW-116 | MW-117 | MW-118 | MW-119 | MW-120 | MW-121 | MW-122 | MW-123 | MW-124 | MW-125 | MW-126 | MW-127 | MW-128 | MW-129 | MW-130 | MW-131 | MW-132 | MW-133 | MW-134 | MW-135 | MW-136 | MW-137 | MW-138



N⁰	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- ● MONITORING WELL LOCATION
- ▲ VERTICAL AQUIFER SAMPLING LOCATION
- ■ BOREHOLE LOCATION
- 5 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL (5 µg/L)
- EXCEEDS INDUSTRIAL INDOOR AIR RISK SCREENING VALUE (6.93 µg/L)

CONCENTRATION (µg/L)	CRITERIA
0.46	USEPA TAPWATER
5	USEPA MCL
6.93	INDUSTRIAL INDOOR AIR RISK

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

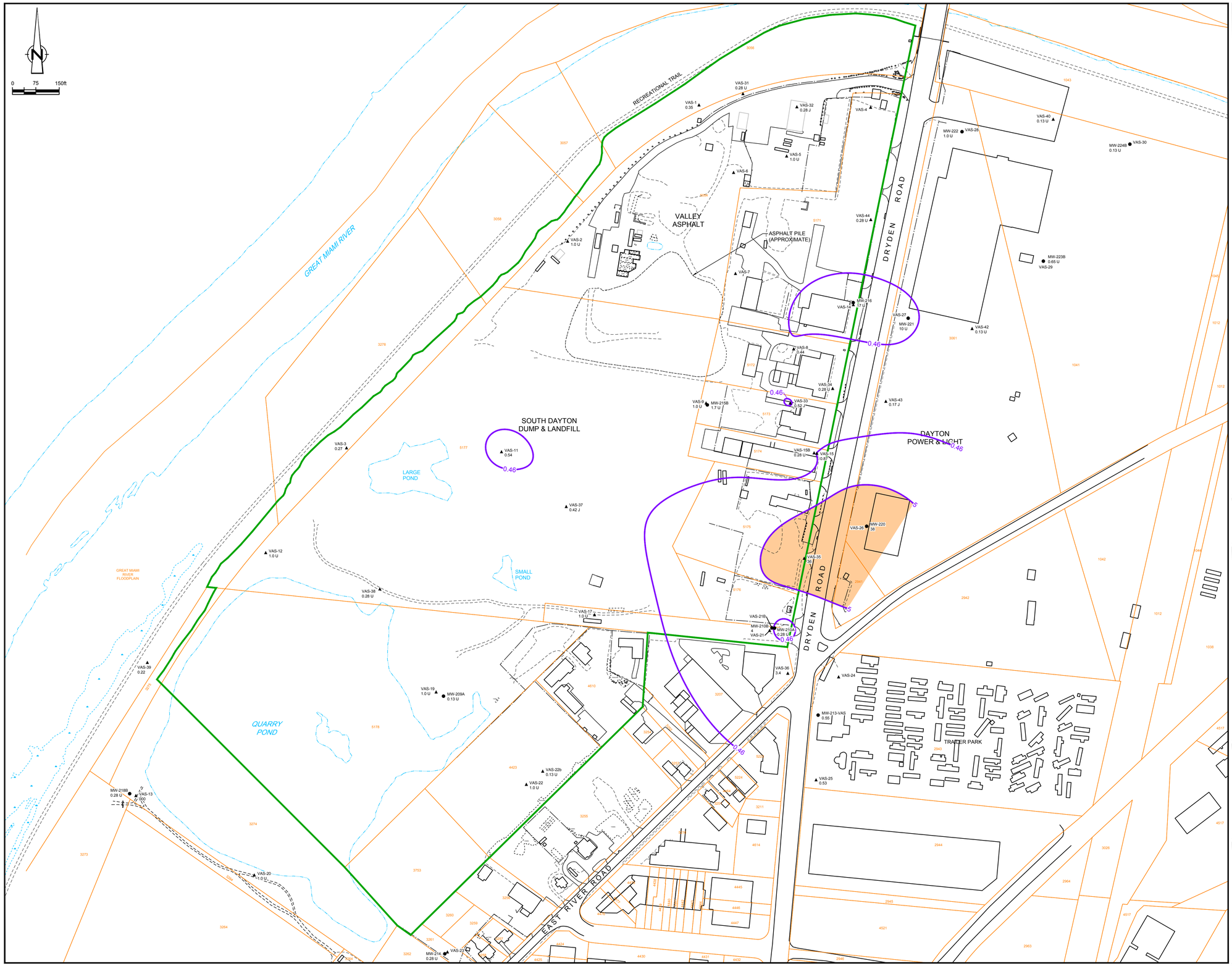
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

BEN□ENE CONCENTRATION MAP
UPPER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project N⁰: 38443-360	Report N⁰: 035	Drawing N⁰: figure 5.4

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA011.dwg Plot Date: SEP 30, 2019



NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- ● MONITORING WELL LOCATION
- ▲ VERTICAL AQUIFER SAMPLING LOCATION
- 5 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL (5 µg/L)

CONCENTRATION (µg/L)	CRITERIA
0.46	USEPA TAPWATER
5	USEPA MCL

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

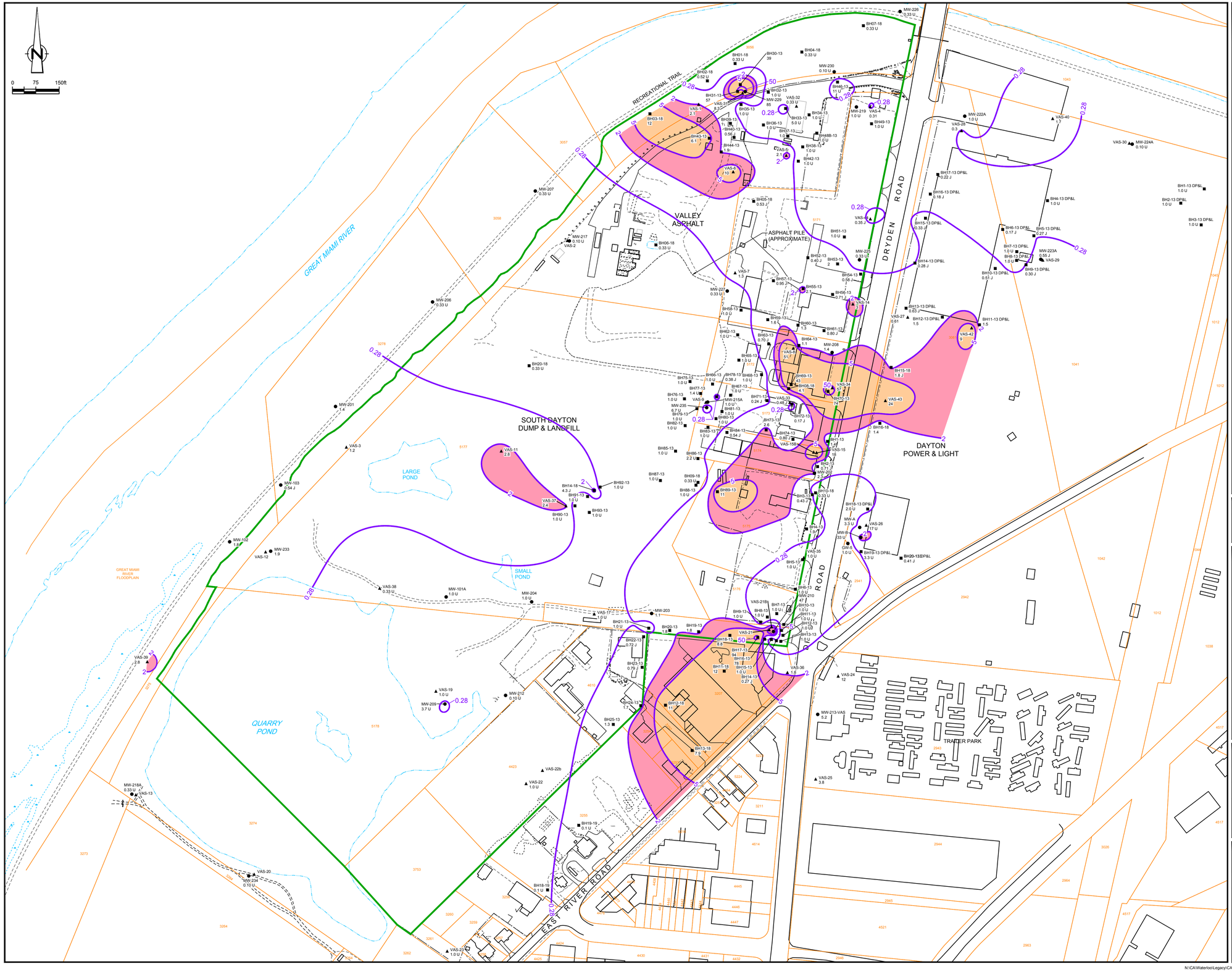
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

BEN ENE PRELIMINARY SITE WIDE
LOWER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project NO: 38443-360	Report NO: 035	Drawing NO: figure 5.5

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA012.dwg Plot Date: SEP 30, 2019



NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- MONITORING WELL LOCATION
- VERTICAL AQUIFER SAMPLING LOCATION
- BOREHOLE LOCATION
- 5 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL (5 µg/L)
- EXCEEDS INDUSTRIAL INDOOR AIR RISK SCREENING VALUE (2 µg/L)

CONCENTRATION (µg/L)	CRITERIA
0.28	USEPA TAPWATER
5	USEPA MCL
2	INDUSTRIAL INDOOR AIR RISK

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

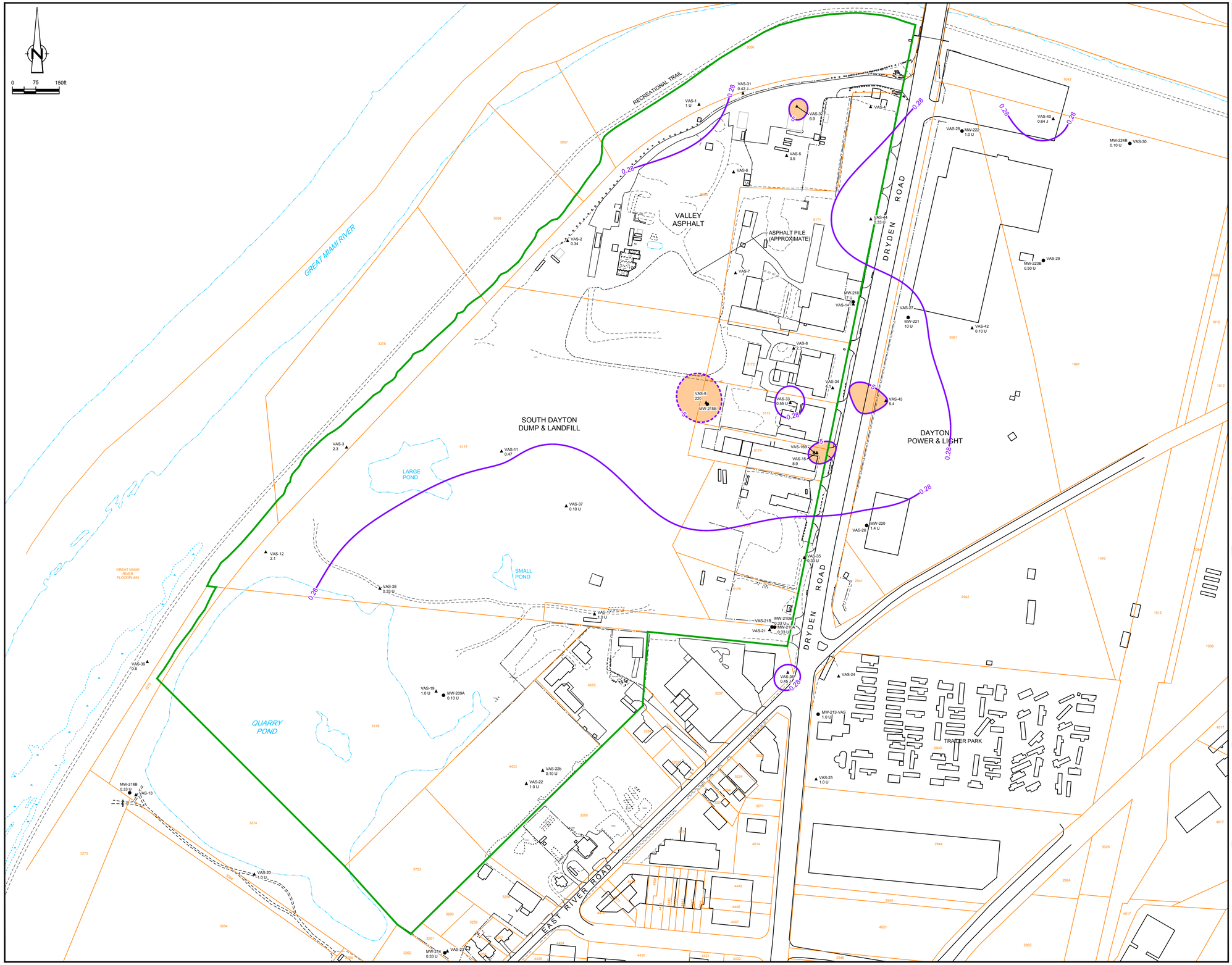
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

TCE CONCENTRATION MAP
UPPER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project NO: 38443-360	Report NO: 035	Drawing NO: figure 5.6

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA009.dwg Plot Date: SEP 30, 2019



NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- ● MONITORING WELL LOCATION
- ▲ VERTICAL AQUIFER SAMPLING LOCATION
- 5 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL (5 µg/L)

CONCENTRATION (µg/L)	CRITERIA
0.28	USEPA TAPWATER
5	USEPA MCL

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

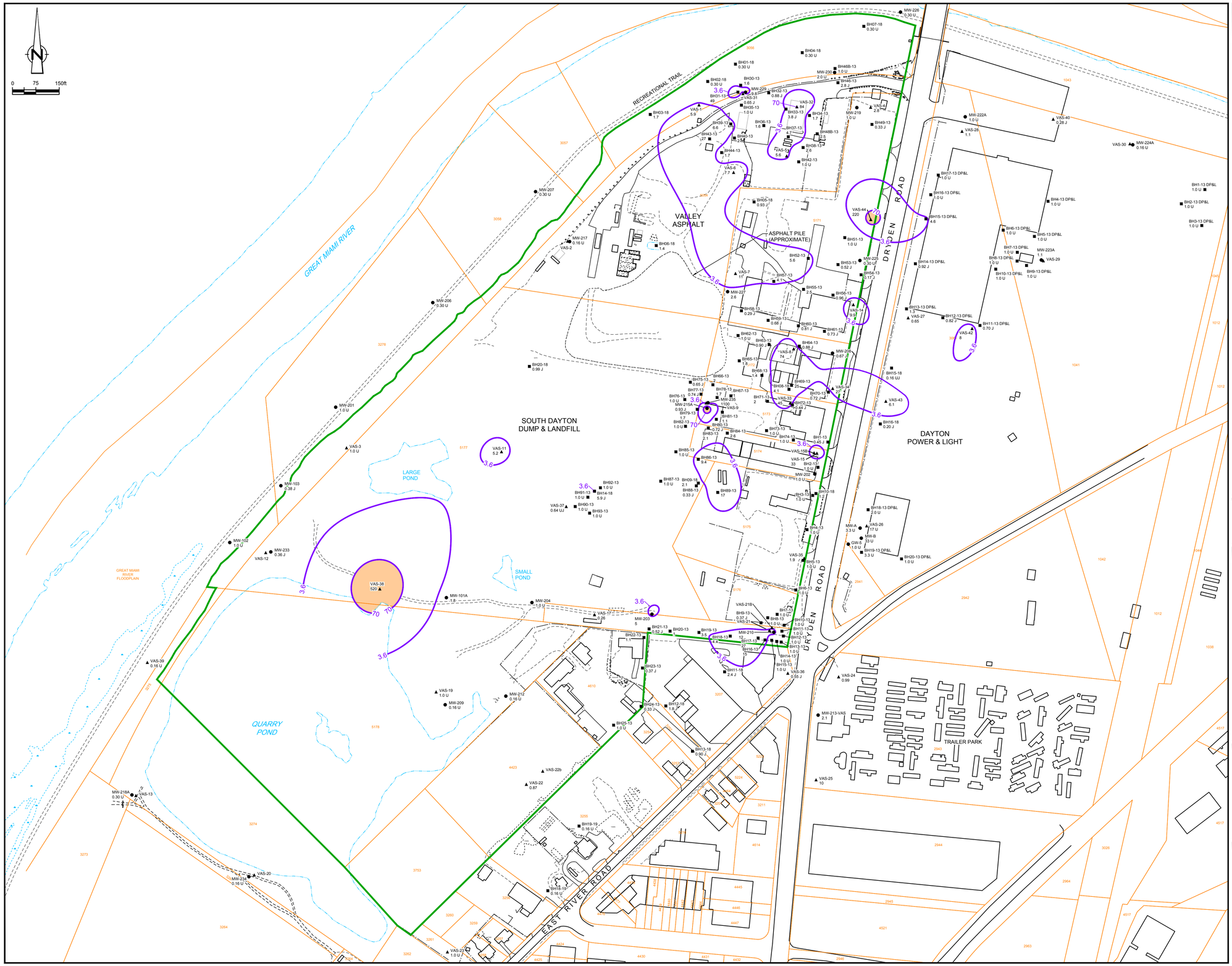
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

TCE CONCENTRATION MAP
LOWER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project NO: 38443-360	Report NO: 035	Drawing NO: figure 5.7

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA010.dwg Plot Date: SEP 30, 2019



NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- ● MONITORING WELL LOCATION
- ▲ VERTICAL AQUIFER SAMPLING LOCATION
- ■ BOREHOLE LOCATION
- 70 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL (70 µg/L)

CONCENTRATION (µg/L)	CRITERIA
3.6	USEPA TAPWATER
70	USEPA MCL

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

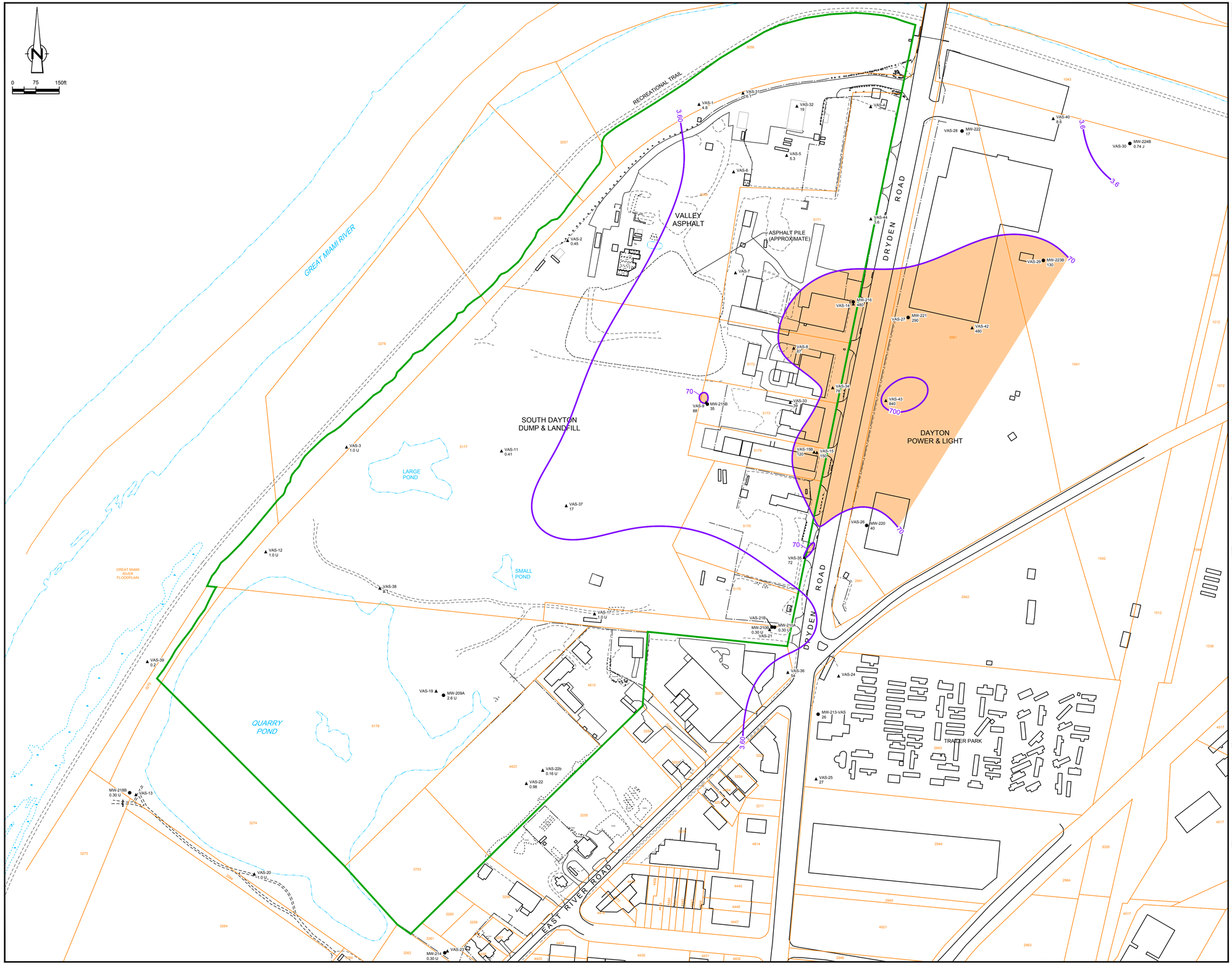
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

CIS-1,2-DCE CONCENTRATION MAP UPPER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project NO: 38443-360	Report NO: 035	Drawing NO: figure 5.8

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA013.dwg Plot Date: SEP 30, 2019



N⁰	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- ● MONITORING WELL LOCATION
- ▲ VERTICAL AQUIFER SAMPLING LOCATION
- 70 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL (70 µg/L)

CONCENTRATION (µg/L)	CRITERIA
3.6	USEPA TAPWATER
70	USEPA MCL

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

CIS-1,2-DCE CONCENTRATION MAP LOWER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project N⁰: 38443-360	Report N⁰: 035	Drawing N⁰: figure 5.9

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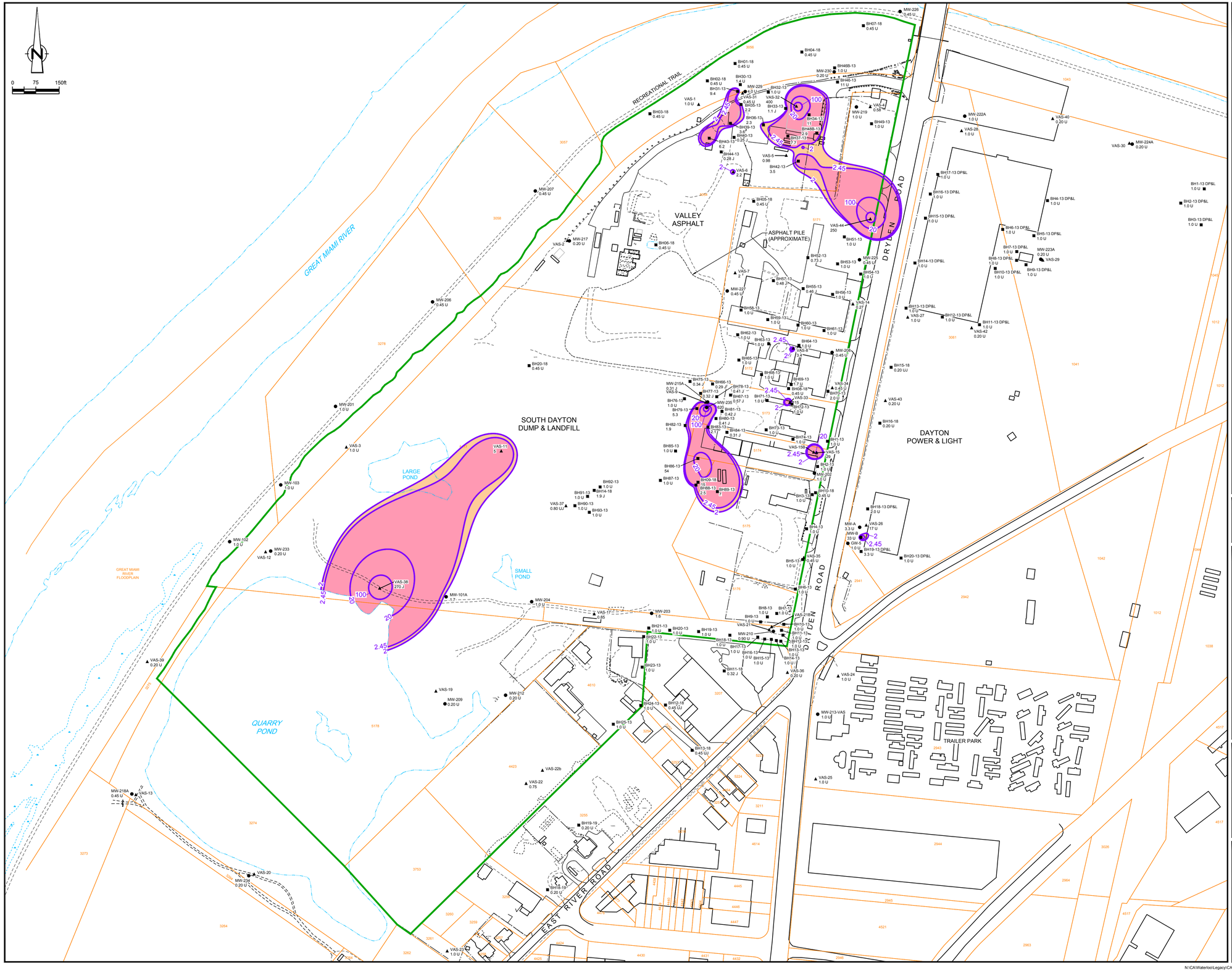

NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- ● MONITORING WELL LOCATION
- ▲ VERTICAL AQUIFER SAMPLING LOCATION
- ■ BOREHOLE LOCATION
- 2 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL (2 µg/L)
- EXCEEDS INDUSTRIAL INDOOR AIR RISK SCREENING VALUE (2.45 µg/L)

CONCENTRATION (µg/L)	CRITERIA
0.019	USEPA TAPWATER
2	USEPA MCL
2.45	INDUSTRIAL INDOOR AIR RISK

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

VINYL CHLORIDE CONCENTRATION MAP UPPER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project N°: 38443-360	Report N°: 035	Drawing N°: figure 5.10

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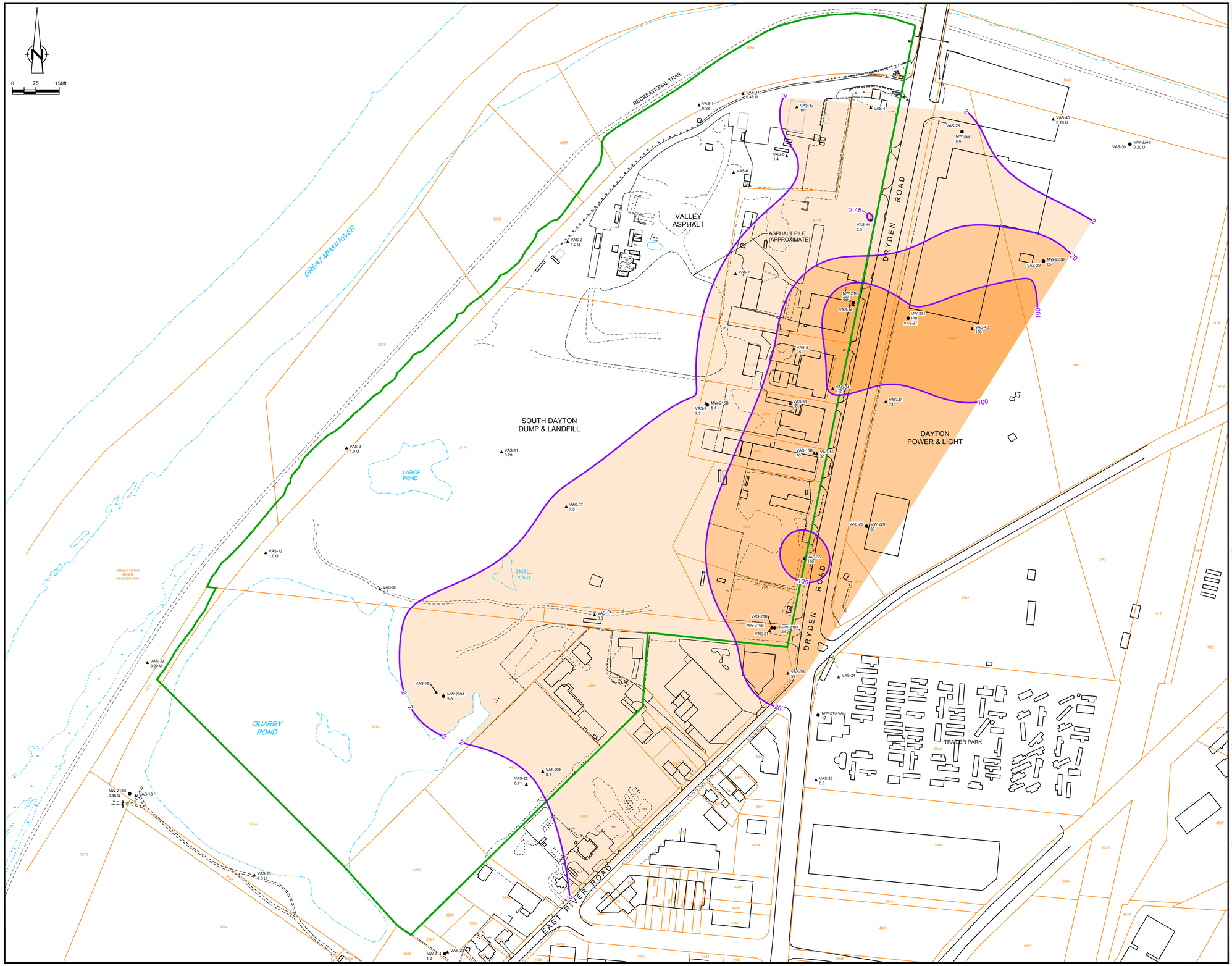


NO	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- ● MONITORING WELL LOCATION
- ▲ VERTICAL AQUIFER SAMPLING LOCATION
- 2 CONCENTRATION CONTOURS (µg/L)
- 94 CONCENTRATION (µg/L)
- J ESTIMATED
- U NOT DETECTED AT THE ASSOCIATED REPORTING LIMIT
- EXCEEDS MAXIMUM CONTAMINANT LEVEL >2 AND <20 µg/L)
- EXCEEDS MAXIMUM CONTAMINANT LEVEL >20 AND <100 µg/L)
- EXCEEDS MAXIMUM CONTAMINANT LEVEL >100 µg/L)

CONCENTRATION (µg/L)	CRITERIA
0.019	USEPA TAPWATER
2	USEPA MCL

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

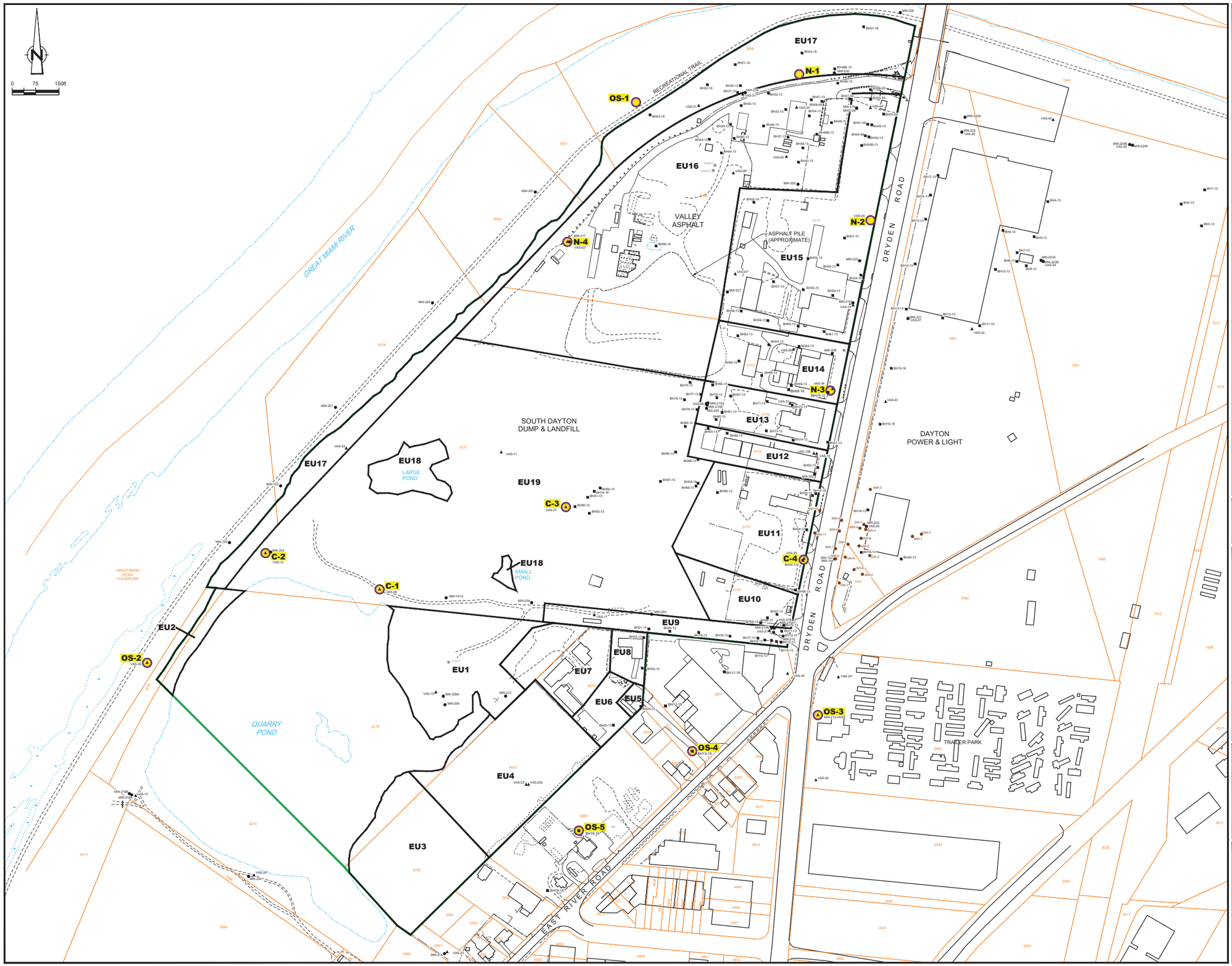
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

VINYL CHLORIDE CONCENTRATION MAP LOWER AQUIFER

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project NO: 38443-360	Report NO: 035	Drawing NO: figure 5.11

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GN\38443-360(035)GN-WA016.dwg Plot Date: SEP 30, 2019



No.	Revision	Date	Initial

LEGEND

- EDGE OF WATER
- PARCEL BOUNDARY
- 3224 PARCEL NUMBER
- OPERABLE UNIT ONE (OU1) BOUNDARY (APPROXIMATE)
- EXPOSURE UNIT
- MW-206 MONITORING WELL LOCATION
- MW-102 ABANDONED WELL LOCATION
- MW-1 HISTORIC DP&L MONITORING WELL LOCATION
- BH01-13 BOREHOLE LOCATION
- VAS-01 VERTICAL AQUIFER SAMPLING LOCATION
- P-21 PIEZOMETER LOCATION
- VAS LOCATION COMPLETED TO 70 FEET BELOW GROUND SURFACE OR LESS
- PROPOSED WELL LOCATION
  N - NORTHERN AREA
  C - CENTRAL AREA
  S - SOUTHERN AREA
  OS - OUTSIDE OU1

NOTE:
This drawing shows locations where a soil sample was submitted for chemical analysis.

SCALE VERIFICATION

THIS BAR MEASURES 1" ON ORIGINAL. ADJUST SCALE ACCORDINGLY.

Approved

DRAWING STATUS

Status	Date	Initial

SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

PROPOSED MONITORING WELL LOCATIONS

GHD

Source Reference:			
Project Manager:	Reviewed By:	Date: SEPTEMBER 2019	
Scale: 1:150	Project No: 38443-360	Report No: 035	Drawing No: figure 6.1

N:\CA\Waterloo\Legacy\CAD\drawings\38000s\38443\38443-REPORTS\38443-360(035)\38443-360(035)GIN\38443-360(035)GIN-WA018.dwg Plot Date: SEP 30, 2019

Table 2.1

Groundwater Elevation Data (2017 to 2018)
South Dayton Dump Landfill
Moraine, Ohio

Location	Coordinates[1]		Reference	September 2017		March 2018		June 2018		October 2018		December 2018	
	Easting	Northing	Top of Riser ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF	Groundwater Elevation ft AMSL
GW-1	1485691.87	633281.09	735.23	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GW-2	1485705.16	633197.13	735.36	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GW-3	1485870.44	633265.99	735.58	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
GW-5	1485681.66	633137.26	735.55	n/a	n/a	n/a	n/a	23.61	711.94	24.77	710.78	n/a	n/a
GW-6	1485626.42	633192.35	734.42	n/a	n/a	n/a	n/a	23.51	710.91	24.16	710.26	n/a	n/a
GW-7	1485607.50	633109.42	735.07	n/a	n/a	n/a	n/a	24.09	710.98	25.3	709.77	n/a	n/a
GW-8	1485654.66	633152.28	734.92	n/a	n/a	n/a	n/a	24.03	710.89	25.25	709.67	n/a	n/a
MW-101A	1484347.13	633062.05	725.00	16.68	708.32	13.96	711.04	14.80	710.20	15.61	709.39	13.68	711.32
MW-102	1483652.72	633238.74	717.63	9.64	707.99	7.09	710.54	7.51	710.12	8.31	709.32	6.10	711.53
MW-103	1483816.63	633420.79	716.50	8.46	708.04	5.88	710.62	6.28	710.22	7.15	709.35	4.83	711.67
MW-104	1485593.26	633186.27	n/a	19.3	708.95	n/a	n/a	17.33	n/a	18.57	709.73	n/a	n/a
MW-201	1483992.29	633672.43	715.25	7.41	707.84	4.87	710.38	5.16	710.09	6.13	709.12	3.74	711.51
MW-202	1485528.31	633458.42	733.08	24.39	708.69	21.64	711.44	22.26	710.82	23.49	709.59	21.55	711.53
MW-203	1485006.23	633009.04	730.11	21.34	708.77	18.68	711.43	19.34	710.77	20.56	709.55	18.75	711.36
MW-204	1484621.37	633046.28	722.69	13.89	708.80	11.34	711.35	12.06	710.63	13.16	709.53	11.36	711.33
MW-206	1484303.39	634007.63	716.08	7.74	708.34	5.14	710.94	5.41	710.67	6.43	709.65	4.04	712.04
MW-207	1484633.10	634363.27	716.33	7.79	708.54	5.21	711.12	5.42	710.91	6.64	709.69	4.20	712.13
MW-208	1485584.91	633845.40	733.87	27.65	706.17	22.39	711.48	22.88	710.99	24.12	709.75	22.02	711.85
MW-209	1484343.34	632718.83	714.26	5.73	708.53	3.38	710.88	4.03	710.23	5.16	709.10	3.21	711.05
MW-209A	1484337.98	632746.34	714.64	6.09	708.55	3.79	710.85	4.40	710.24	5.56	709.08	3.67	710.97
MW-210	1485396.75	632951.11	732.50	26.10	706.40	20.97	711.53	21.64	710.86	22.86	709.64	21.00	711.50
MW-210A	1485399.45	632964.36	733.54	25.10	708.44	22.47	711.07	23.15	710.39	24.32	709.22	22.50	711.04
MW-210B	1485390.92	632965.07	733.65	25.19	708.46	22.52	711.13	23.21	710.44	24.39	709.26	22.52	711.13
MW-212	1484537.84	632746.38	728.83	20.4	708.43	17.95	710.88	18.58	710.25	19.67	709.16	17.88	710.95
MW-214	1484342.04	631920.50	723.96	n/a	n/a	13.23	710.73	13.80	710.16	14.70	709.26	13.17	710.79
MW-215A	1485186.15	633686.53	734.63	25.85	708.78	23.16	711.47	23.71	710.92	n/a	n/a	22.96	711.67
MW-215B	1485183.69	633679.69	734.69	26.07	708.62	23.37	711.32	24.07	710.62	25.47	709.22	23.28	711.41
MW-216	1485650.98	634007.80	732.08	23.63	708.45	20.79	711.29	21.56	710.52	22.86	709.22	20.88	711.20
MW-217	1484742.27	634203.23	736.65	n/a	n/a	n/a	n/a	25.77	710.88	27.00	709.65	24.66	n/a
MW-218A	1483339.09	632429.81	722.70	14.85	707.85	12.46	710.24	12.79	709.91	13.57	709.13	11.42	711.28
MW-218B	1483331.81	632433.77	722.97	14.53	708.44	12.61	710.36	13.14	709.83	14.09	708.88	12.38	710.59
MW-219	1485662.99	634632.62	735.34	26.80	708.54	24.04	711.30	24.27	711.07	25.57	709.77	23.28	712.06
MW-220	1485694.49	633290.82	735.40	26.26	709.14	24.04	711.36	n/a	n/a	25.57	709.83	n/a	n/a
MW-221	1485827.65	633957.63	735.84	27.46	708.38	24.04	711.80	25.39	710.45	26.78	709.06	24.77	711.07
MW-222	1486000.22	634555.40	736.26	28.05	708.21	24.04	712.22	25.85	710.41	27.41	708.85	23.28	712.98
MW-222A	1486010.55	634603.03	735.42	26.57	708.85	24.04	711.38	24.22	711.20	25.71	709.71	25.09	710.33
MW-223A	1486254.37	634144.16	735.38	26.36	709.02	24.04	711.34	24.18	711.20	25.56	709.82	23.49	711.89
MW-223B	1486261.00	634140.45	735.04	n/a	n/a	24.04	711.00	n/a	n/a	25.96	709.08	23.87	711.17
MW-224A	1486547.57	634513.42	735.60	26.64	708.96	24.04	711.56	24.39	711.21	25.94	709.66	24.36	711.24
MW-224B	1486538.41	634515.45	735.48	27.31	708.17	24.04	711.44	25.00	710.48	26.58	708.90	24.25	711.23
MW-225	1485672.90	634142.60	731.14	22.35	708.79	19.68	711.46	20.03	711.11	21.31	709.83	19.27	711.87
MW-226	1485803.06	634938.64	721.09	12.50	708.59	10.09	711.00	10.10	710.99	11.6	709.49	9.05	712.04
MW-227	1485248.78	634042.62	739.10	30.30	708.80	27.67	711.43	28.13	710.97	29.31	709.79	27.09	712.01
MW-228	1485475.11	634388.19	738.57	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MW-229	1485306.20	634681.80	736.68	28.14	708.54	25.61	711.07	25.73	710.95	27.32	709.36	24.66	712.02
MW-230	1485592.00	634745.30	737.22	n/a	n/a	26.08	711.14	26.17	711.05	27.57	709.65	25.15	712.07
MW-233	1483784.00	633208.70	730.08	n/a	n/a	19.37	710.71	19.9	710.18	20.8	709.28	18.50	711.58
MW-234	1483714.22	632168.22	724.07	n/a	n/a	n/a	n/a	n/a	n/a	14.65	709.42	12.75	711.32
MW-235	1485182.31	633669.45	734.25	n/a	n/a	n/a	n/a	n/a	n/a	24.39	709.86	22.23	712.02
P-211	1484355.17	632855.28	715.72	n/a	n/a	3.75	711.97	4.96	710.76	5.38	710.34	3.89	711.83

Table 2.1

Groundwater Elevation Data (2017 to 2018)
South Dayton Dump Landfill
Moraine, Ohio

Location	Coordinates[1]		Reference	September 2017		March 2018		June 2018		October 2018		December 2018	
	Easting	Northing	Top of Riser ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF*	Groundwater Elevation ft AMSL	Depth to Water ft BREF	Groundwater Elevation ft AMSL
SG-1 (Small Pond)	n/a	n/a	709.36	n/a	n/a	2.75	712.113	1.08	710.44	n/a	n/a	2.35	711.71
SG-2 (Large Pond)	n/a	n/a	708.72	n/a	n/a	<3.380	n/a	15" below 3.380	n/a	n/a	n/a	3.20	711.92
SG-3 (Quarry Pond North)	n/a	n/a	705.46	n/a	n/a	5.48	710.94	4.68	710.14	n/a	n/a	6.08	711.54
SG-4 (Quarry Pond SW)	n/a	n/a	708.59	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
MW-1	1485842.09	633258.84	735.13	n/a	n/a	n/a	n/a	24.00	711.13	25.26	709.87	n/a	n/a
MW-2	1485670.65	633228.08	735.15	n/a	n/a	n/a	n/a	24.07	711.08	25.16	709.99	n/a	n/a
MW-3	1485707.04	633409.40	736.03	n/a	n/a	n/a	n/a	24.16	711.87	25.37	710.66	n/a	n/a
MW-4	1485692.08	633281.02	735.37	n/a	n/a	n/a	n/a	24.34	711.03	25.57	709.80	n/a	n/a
MW-5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	24.51	n/a	25.67	n/a	n/a	n/a
MW-A	1485673.56	633284.93	735.12	n/a	n/a	n/a	n/a	24.07	711.05	25.21	709.91	n/a	n/a
MW-B	1485677.26	633252.64	735.43	n/a	n/a	n/a	n/a	24.49	710.94	25.65	709.78	n/a	n/a
Dryden Road Bridge**	1485899.34	635057.85	747.80	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	36.50	711.30
Culvert**	1484110.84	634679.71	724.60	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	12.55	712.05

Notes:

[1] - North American Datum of 1983 (NAD83), U.S. Survey feet
ft BREF - feet below reference
ft AMSL - feet above mean sea level
* Reference point is Top Of Riser at each monitoring well
* Reference point is Top of Staff Gauge at the Large, Small and Quarry Pond
** Completion Depth

Table 4.1

Summary of Detected Parameters
Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Volatiles							
1,1,1-Trichloroethane	ug/L	200	800	349	32	0.22	15
1,1-Dichloroethane	ug/L	-	2.8	349	111	0.18	39
1,1-Dichloroethene	ug/L	7	28	280	6	0.24	1.1
1,2,4-Trichlorobenzene	ug/L	70	0.4	280	1	1.2	1.2
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	0.00033	278	1	0.0096	0.0096
1,2-Dichlorobenzene	ug/L	600	30	280	18	0.13	1.8
1,2-Dichloroethane	ug/L	5	0.17	349	4	2	34
1,2-Dichloroethene (total)	ug/L	-	-	71	25	2	480
1,2-Dichloropropane	ug/L	5	0.82	280	2	0.54	0.62
1,3-Dichlorobenzene	ug/L	-	-	280	2	0.31	0.44
1,4-Dichlorobenzene	ug/L	75	0.48	280	19	0.16	5.6
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	560	280	23	0.57	19
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	630	280	4	0.34	21
Acetone	ug/L	-	1400	349	30	1.1	30
Benzene	ug/L	5	0.46	349	71	0.15	100
Bromodichloromethane	ug/L	80	0.13	280	5	0.34	1.3
Bromoform	ug/L	80	3.3	349	1	0.6	0.6
Carbon disulfide	ug/L	-	81	280	8	0.17	1.2
Chlorobenzene	ug/L	100	7.8	349	74	0.2	130
Chloroethane	ug/L	-	2100	348	16	0.52	9.4
Chloroform (Trichloromethane)	ug/L	80	0.22	280	23	0.22	3.1
Chloromethane (Methyl chloride)	ug/L	-	19	280	1	0.34	0.34
cis-1,2-Dichloroethene	ug/L	70	3.6	278	194	0.17	3900
Cyclohexane	ug/L	-	1300	278	74	0.12	6.9
Dibromochloromethane	ug/L	80	0.87	280	5	0.28	0.76
Dichlorodifluoromethane (CFC-12)	ug/L	-	20	278	1	0.36	0.36
Ethylbenzene	ug/L	700	1.5	280	47	0.2	100
Isopropyl benzene	ug/L	-	45	278	19	0.17	36
m&p-Xylenes	ug/L	-	-	63	6	0.15	12
Methyl acetate	ug/L	-	2000	278	1	0.38	0.38
Methyl cyclohexane	ug/L	-	-	278	21	0.17	40
Methyl tert butyl ether (MTBE)	ug/L	-	14	278	20	0.19	2
Methylene chloride	ug/L	5	11	349	15	0.7	51
o-Xylene	ug/L	-	19	63	4	0.25	6.6
Styrene	ug/L	100	120	349	4	0.13	0.78
Tetrachloroethene	ug/L	5	4.1	349	18	0.29	4.6
Toluene	ug/L	1000	110	349	164	0.13	270
trans-1,2-Dichloroethene	ug/L	100	36	278	46	0.19	4.3
Trichloroethene	ug/L	5	0.28	349	161	0.17	5100
Vinyl chloride	ug/L	2	0.019	349	130	0.22	760
Xylenes (total)	ug/L	10000	19	349	44	0.26	190
Semi-Volatiles							
2-Methylnaphthalene	ug/L	-	3.6	88	10	0.13	56
4-Methylphenol	ug/L	-	190	59	2	1.5	1.7
Acenaphthene	ug/L	-	53	88	5	0.21	10
Anthracene	ug/L	-	180	88	4	0.21	1.3
Benzo(a)anthracene	ug/L	-	0.03	88	4	0.21	1.3
Benzo(a)pyrene	ug/L	0.2	0.025	88	5	0.56	1.1
Benzo(b)fluoranthene	ug/L	-	0.25	88	5	0.17	1.2
Benzo(g,h,i)perylene	ug/L	-	-	88	3	0.29	0.9
Benzo(k)fluoranthene	ug/L	-	2.5	88	3	0.29	0.45
Biphenyl (1,1-Biphenyl)	ug/L	-	0.083	86	2	0.41	1.2
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6	5.6	88	11	0.85	160
Butyl benzylphthalate (BBP)	ug/L	-	16	88	1	1.1	1.1
Caprolactam	ug/L	-	990	85	10	0.34	20
Carbazole	ug/L	-	-	86	3	0.7	3.3
Chrysene	ug/L	-	25	88	4	0.2	1.7
Dibenz(a,h)anthracene	ug/L	-	0.025	88	1	0.3	0.3
Dibenzofuran	ug/L	-	0.79	88	4	0.24	3.2
Diethyl phthalate	ug/L	-	1500	88	4	0.68	1.3

Table 4.1

Summary of Detected Parameters
Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Di-n-butylphthalate (DBP)	ug/L	-	90	88	4	0.76	3.5
Di-n-octyl phthalate (DnOP)	ug/L	-	20	88	1	1	1
Fluoranthene	ug/L	-	80	88	9	0.19	5.2
Fluorene	ug/L	-	29	88	5	0.29	2.2
Indeno(1,2,3-cd)pyrene	ug/L	-	0.25	88	4	0.24	0.88
Naphthalene	ug/L	-	0.17	187	18	0.19	17
Phenanthrene	ug/L	-	-	88	10	0.14	5.9
Phenol	ug/L	-	580	88	1	130	130
Pyrene	ug/L	-	12	88	7	0.24	3.9
Metals							
Aluminum	ug/L	-	2000	88	67	39	62000
Aluminum (dissolved)	ug/L	-	2000	92	22	34	8700
Antimony	ug/L	6	0.78	88	27	0.22	23
Antimony (dissolved)	ug/L	6	0.78	92	12	0.73	3.3
Arsenic	ug/L	10	0.052	177	157	0.56	3200
Arsenic (dissolved)	ug/L	10	0.052	98	61	0.66	230
Barium	ug/L	2000	380	101	93	97	5000
Barium (dissolved)	ug/L	2000	380	92	92	85	5200
Beryllium	ug/L	4	2.5	88	26	0.31	4.3
Beryllium (dissolved)	ug/L	4	2.5	92	5	0.32	0.86
Cadmium	ug/L	5	0.92	101	22	0.22	14
Cadmium (dissolved)	ug/L	5	0.92	92	7	0.21	0.49
Calcium	ug/L	-	-	88	88	19000	1400000
Calcium (dissolved)	ug/L	-	-	92	92	16000	280000
Chromium	ug/L	100	-	101	50	1	610
Chromium (dissolved)	ug/L	100	-	92	14	1.1	22
Cobalt	ug/L	-	0.6	88	66	0.3	72
Cobalt (dissolved)	ug/L	-	0.6	92	65	0.19	33
Copper	ug/L	1300	80	88	51	1.7	1900
Copper (dissolved)	ug/L	1300	80	92	33	1.8	39
Iron	ug/L	-	1400	88	83	56	390000
Iron (dissolved)	ug/L	-	1400	104	95	64	28000
Lead	ug/L	15	15	177	132	0.34	1940
Lead (dissolved)	ug/L	15	15	98	21	0.2	20
Magnesium	ug/L	-	-	88	88	4330	450000
Magnesium (dissolved)	ug/L	-	-	92	92	5900	110000
Manganese	ug/L	-	43	88	87	2.5	15000
Manganese (dissolved)	ug/L	-	43	92	90	0.65	2400
Manganese 2+	ug/L	-	-	11	8	119	1241
Mercury	ug/L	2	0.063	93	4	0.24	0.56
Nickel	ug/L	-	39	88	62	1.5	300
Nickel (dissolved)	ug/L	-	39	92	58	1.5	28
Potassium	ug/L	-	-	88	87	1300	114000
Potassium (dissolved)	ug/L	-	-	92	91	1100	65000
Selenium	ug/L	50	10	93	38	1	25.3
Selenium (dissolved)	ug/L	50	10	92	28	1.1	26.3
Silver	ug/L	-	9.4	93	16	0.06	4.1
Silver (dissolved)	ug/L	-	9.4	92	4	0.054	0.072
Sodium	ug/L	-	-	88	88	11000	500000
Sodium (dissolved)	ug/L	-	-	92	92	12000	530000
Thallium	ug/L	2	0.02	88	26	0.2	4.4
Thallium (dissolved)	ug/L	2	0.02	92	14	0.21	6.7
Vanadium	ug/L	-	8.6	88	38	0.83	160
Vanadium (dissolved)	ug/L	-	8.6	92	11	0.92	20
Zinc	ug/L	-	600	88	47	10	5500
Zinc (dissolved)	ug/L	-	600	92	41	34	4400
PCBs							
Aroclor-1242 (PCB-1242)	ug/L	-	0.0078	76	2	0.063	0.19

Table 4.1

Summary of Detected Parameters
Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Aroclor-1254 (PCB-1254)	ug/L	-	0.0078	76	3	0.051	0.3
Aroclor-1260 (PCB-1260)	ug/L	-	0.0078	76	2	0.16	0.19
Pesticides							
4,4'-DDE	ug/L	-	0.046	49	2	0.017	0.023
alpha-BHC	ug/L	-	0.0072	49	1	0.034	0.034
beta-BHC	ug/L	-	0.025	49	3	0.011	0.049
delta-BHC	ug/L	-	-	49	3	0.013	0.02
Endosulfan I	ug/L	-	-	49	1	0.032	0.032
Heptachlor	ug/L	0.4	0.0014	49	2	0.0082	0.051
Gases							
Ethane	ug/L	-	-	25	19	0.31	5600
Ethene	ug/L	-	-	24	4	0.58	4000
Methane	ug/L	-	-	33	32	0.5	5700
Herbicides							
Petroleum Products							
General Chemistry							
Alkalinity, total (as CaCO3)	ug/L	-	-	24	24	270000	800000
Ammonia-N	ug/L	-	-	12	9	300	5400
Chloride	ug/L	-	-	87	87	11000	350000
Cyanide (total)	ug/L	200	0.15	38	10	7.4	580
Dissolved organic carbon (DOC)	ug/L	-	-	12	12	2000	17000
Hardness	ug/L	-	-	11	11	291000	673000
Nitrate (as N)	ug/L	10000	3200	87	39	20	19000
Nitrite (as N)	ug/L	1000	200	75	13	17	140
Sulfate	ug/L	-	-	87	82	1300	250000
Total organic carbon (TOC)	ug/L	-	-	12	11	2000	11000

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

D - Result was obtained from the analysis of a dilution.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.

R - Rejected.

U - Non-detect at associated value.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Table 4.2

Summary of Detected Parameters
Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Volatiles							
1,1,1-Trichloroethane	ug/L	200	800	212	6	0.24	0.95
1,1-Dichloroethane	ug/L	-	2.8	212	51	0.17	3.5
1,1-Dichloroethene	ug/L	7	28	212	11	0.26	2.5
1,2-Dichloroethane	ug/L	5	0.17	212	3	0.25	1.2
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	560	212	7	0.66	9.4
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	630	212	6	0.57	2
Acetone	ug/L	-	1400	212	1	4.1	4.1
Benzene	ug/L	5	0.46	212	39	0.23	1100
Bromodichloromethane	ug/L	80	0.13	212	4	0.5	1.1
Carbon disulfide	ug/L	-	81	212	7	0.29	0.85
Chlorobenzene	ug/L	100	7.8	212	3	0.23	0.36
Chloroethane	ug/L	-	2100	211	5	0.36	1.4
Chloroform (Trichloromethane)	ug/L	80	0.22	212	18	0.13	1.8
cis-1,2-Dichloroethene	ug/L	70	3.6	212	124	0.21	650
Cyclohexane	ug/L	-	1300	212	61	0.12	1.7
Dibromochloromethane	ug/L	80	0.87	212	2	0.57	0.85
Ethylbenzene	ug/L	700	1.5	212	3	0.13	0.27
m&p-Xylenes	ug/L	-	-	61	2	0.18	0.41
Methyl cyclohexane	ug/L	-	-	212	4	0.65	1.9
Methyl tert butyl ether (MTBE)	ug/L	-	14	212	10	0.11	0.49
Methylene chloride	ug/L	5	11	212	3	2	9.8
Styrene	ug/L	100	120	212	1	0.9	0.9
Tetrachloroethene	ug/L	5	4.1	212	7	0.19	0.96
Toluene	ug/L	1000	110	212	119	0.17	8.1
trans-1,2-Dichloroethene	ug/L	100	36	212	36	0.21	5.9
Trichloroethene	ug/L	5	0.28	212	49	0.31	220
Vinyl chloride	ug/L	2	0.019	212	147	0.28	350
Xylenes (total)	ug/L	10000	19	212	5	0.18	0.84
Semi-Volatiles							
2-Methylnaphthalene	ug/L	-	3.6	44	1	0.26	0.26
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6	5.6	46	5	0.95	3
Butyl benzylphthalate (BBP)	ug/L	-	16	44	2	0.95	1
Caprolactam	ug/L	-	990	43	1	0.35	0.35
Phenol	ug/L	-	580	44	2	7.6	12
Metals							
Aluminum	ug/L	-	2000	72	60	34	120000
Aluminum (dissolved)	ug/L	-	2000	66	12	34	10000
Antimony	ug/L	6	0.78	72	23	0.22	6
Antimony (dissolved)	ug/L	6	0.78	66	10	0.63	1.5
Arsenic	ug/L	10	0.052	207	204	0.55	1030
Arsenic (dissolved)	ug/L	10	0.052	98	90	0.55	38
Barium	ug/L	2000	380	72	70	84	2200
Barium (dissolved)	ug/L	2000	380	66	64	73	737
Beryllium	ug/L	4	2.5	72	12	0.36	5.4
Beryllium (dissolved)	ug/L	4	2.5	66	6	0.31	1.6
Cadmium	ug/L	5	0.92	72	14	0.22	4.1
Cadmium (dissolved)	ug/L	5	0.92	66	4	0.25	0.41
Calcium	ug/L	-	-	72	70	59000	1800000
Calcium (dissolved)	ug/L	-	-	66	64	49000	230000
Chromium	ug/L	100	-	72	38	0.99	300
Chromium (dissolved)	ug/L	100	-	66	7	1.1	25
Cobalt	ug/L	-	0.6	72	58	0.2	100
Cobalt (dissolved)	ug/L	-	0.6	66	46	0.2	8.7
Copper	ug/L	1300	80	72	31	1.7	370
Copper (dissolved)	ug/L	1300	80	66	12	1.7	31
Iron	ug/L	-	1400	72	72	480	300000
Iron (dissolved)	ug/L	-	1400	66	66	320	25000
Lead	ug/L	15	15	207	172	0.21	320

Table 4.2

Summary of Detected Parameters
Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Lead (dissolved)	ug/L	15	15	98	18	0.18	17
Magnesium	ug/L	-	-	72	68	32000	440000
Magnesium (dissolved)	ug/L	-	-	66	62	31000	91000
Manganese	ug/L	-	43	72	72	37	7500
Manganese (dissolved)	ug/L	-	43	66	66	35	1200
Manganese 2+	ug/L	-	-	8	6	38	566
Mercury	ug/L	2	0.063	72	5	0.13	0.24
Mercury (dissolved)	ug/L	2	0.063	66	2	0.19	0.24
Nickel	ug/L	-	39	72	42	1.6	310
Nickel (dissolved)	ug/L	-	39	66	15	1.5	26
Potassium	ug/L	-	-	72	68	3500	33000
Potassium (dissolved)	ug/L	-	-	66	62	3600	23000
Selenium	ug/L	50	10	72	8	1	14
Selenium (dissolved)	ug/L	50	10	66	4	0.99	1.3
Silver	ug/L	-	9.4	72	7	0.074	0.88
Silver (dissolved)	ug/L	-	9.4	66	1	0.072	0.072
Sodium	ug/L	-	-	72	68	32000	110000
Sodium (dissolved)	ug/L	-	-	66	62	32000	110000
Thallium	ug/L	2	0.02	72	10	0.2	3
Thallium (dissolved)	ug/L	2	0.02	66	4	0.2	0.63
Vanadium	ug/L	-	8.6	72	24	0.98	260
Vanadium (dissolved)	ug/L	-	8.6	66	5	0.9	21
Zinc	ug/L	-	600	72	57	86	2700
Zinc (dissolved)	ug/L	-	600	66	57	72	2600
PCBs							
Aroclor-1254 (PCB-1254)	ug/L	-	0.0078	15	2	0.046	1.3
Pesticides							
alpha-BHC	ug/L	-	0.0072	15	2	0.0087	0.04
beta-BHC	ug/L	-	0.025	15	1	0.0099	0.0099
Gases							
Ethane	ug/L	-	-	11	11	0.37	13
Ethene	ug/L	-	-	11	5	0.26	4.7
Methane	ug/L	-	-	11	11	19	23000
Herbicides							
General Chemistry							
Alkalinity, total (as CaCO3)	ug/L	-	-	11	11	290000	414000
Chloride	ug/L	-	-	72	70	42000	190000
Dissolved organic carbon (DOC)	ug/L	-	-	11	10	1000	5000
Hardness	ug/L	-	-	8	8	344000	451000
Nitrate (as N)	ug/L	10000	3200	72	22	14	420
Sulfate	ug/L	-	-	72	69	200	104000

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4.3

Summary of Detected Parameters
Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Volatiles							
1,1,1-Trichloroethane	µg/L	200	800	213	51	0.23	14
1,1,2,2-Tetrachloroethane	µg/L	-	0.076	213	1	1	1
1,1-Dichloroethane	µg/L	-	2.8	213	28	0.18	1
1,1-Dichloroethene	µg/L	7	28	168	10	0.2	0.53
1,2,4-Trichlorobenzene	µg/L	70	0.4	168	1	0.34	0.34
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.05	0.0075	165	1	0.036	0.036
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	168	5	1.2	14
2-Hexanone	µg/L	-	3.8	168	1	0.85	0.85
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	630	168	1	0.76	0.76
Acetone	µg/L	-	1400	213	8	1.4	53
Benzene	µg/L	5	0.46	213	43	0.13	2600
Bromodichloromethane	µg/L	80	0.13	168	4	0.3	0.39
Carbon disulfide	µg/L	-	81	168	2	0.42	0.45
Chloroethane	µg/L	-	2100	213	1	22	22
Chloroform (Trichloromethane)	µg/L	80	0.22	168	35	0.17	6.6
Chloromethane (Methyl chloride)	µg/L	-	19	168	1	0.44	0.44
cis-1,2-Dichloroethene	µg/L	70	3.6	165	37	0.2	10
Cyclohexane	µg/L	-	1300	165	62	0.12	620
Ethylbenzene	µg/L	700	1.5	168	48	0.11	2500
Isopropyl benzene	µg/L	-	45	165	30	0.36	120
m&p-Xylenes	µg/L	-	-	52	9	0.11	0.27
Methyl cyclohexane	µg/L	-	-	165	33	0.35	220
Methylene chloride	µg/L	5	11	213	6	0.5	6
o-Xylene	µg/L	-	19	52	2	0.13	0.14
Tetrachloroethene	µg/L	5	4.1	213	27	0.15	1.6
Toluene	µg/L	1000	110	213	107	0.13	3600
trans-1,2-Dichloroethene	µg/L	100	36	165	15	0.21	1.7
Trichloroethene	µg/L	5	0.28	213	94	0.17	24
Vinyl chloride	µg/L	2	0.019	213	1	0.32	0.32
Xylenes (total)	µg/L	10000	19	213	47	0.15	13000
Semi-Volatiles							
2,4-Dimethylphenol	µg/L	-	36	77	2	2.1	7
2-Methylnaphthalene	µg/L	-	3.6	77	8	2.2	190
4-Methylphenol	µg/L	-	190	40	1	6.3	6.3
Acenaphthene	µg/L	-	53	77	9	0.26	3
Acenaphthylene	µg/L	-	-	77	3	0.15	0.7
Anthracene	µg/L	-	180	77	2	0.25	1.1
Benzo(a)anthracene	µg/L	-	0.03	77	2	0.14	0.24
Benzo(a)pyrene	µg/L	0.2	0.025	77	1	0.36	0.36
Benzo(b)fluoranthene	µg/L	-	0.25	77	1	0.42	0.42
Benzo(g,h,i)perylene	µg/L	-	-	77	1	0.31	0.31
Benzo(k)fluoranthene	µg/L	-	2.5	77	1	0.16	0.16
Biphenyl (1,1-Biphenyl)	µg/L	-	0.083	74	1	1.6	1.6
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	5.6	77	13	0.85	4.1
Caprolactam	µg/L	-	990	74	3	0.27	9.6
Carbazole	µg/L	-	-	74	1	0.27	0.27

Table 4.3

Summary of Detected Parameters
Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Semi-Volatiles (cont'd)							
Chrysene	µg/L	-	25	77	2	0.14	0.22
Dibenzofuran	µg/L	-	0.79	77	4	0.5	2.9
Di-n-octyl phthalate (DnOP)	µg/L	-	20	77	1	3	3
Fluoranthene	µg/L	-	80	77	2	0.22	0.45
Fluorene	µg/L	-	29	77	5	0.14	5.4
Indeno(1,2,3-cd)pyrene	µg/L	-	0.25	77	1	0.32	0.32
Naphthalene	µg/L	-	0.17	77	11	0.13	250
Phenanthrene	µg/L	-	-	77	7	0.23	4
Pyrene	µg/L	-	12	77	2	0.24	0.37
Metals							
Aluminum	µg/L	-	2000	98	63	36	170000
Aluminum (dissolved)	µg/L	-	2000	59	12	35	35000
Antimony	µg/L	6	0.78	98	21	0.23	5.7
Antimony (dissolved)	µg/L	6	0.78	59	10	0.23	1.9
Arsenic	µg/L	10	0.052	162	123	0.51	860
Arsenic (dissolved)	µg/L	10	0.052	82	48	0.48	240
Barium	µg/L	2000	380	108	99	69	21000
Barium (dissolved)	µg/L	2000	380	59	59	73	8300
Beryllium	µg/L	4	2.5	98	18	0.31	12
Beryllium (dissolved)	µg/L	4	2.5	59	8	0.35	3
Cadmium	µg/L	5	0.92	108	14	0.21	4.4
Cadmium (dissolved)	µg/L	5	0.92	59	6	0.22	0.78
Calcium	µg/L	-	-	98	98	42000	3000000
Calcium (dissolved)	µg/L	-	-	59	59	41000	450000
Chromium	µg/L	100	-	108	41	1.6	510
Chromium (dissolved)	µg/L	100	-	59	5	3	93
Cobalt	µg/L	-	0.6	98	49	0.2	190
Cobalt (dissolved)	µg/L	-	0.6	59	40	0.2	32
Copper	µg/L	1300	80	98	41	1.9	420
Copper (dissolved)	µg/L	1300	80	59	12	1.7	66
Iron	µg/L	-	1400	98	84	62	500000
Iron (dissolved)	µg/L	-	1400	67	44	48	65000
Lead	µg/L	15	15	162	103	0.22	330
Lead (dissolved)	µg/L	15	15	82	22	0.33	53
Magnesium	µg/L	-	-	98	98	20300	1100000
Magnesium (dissolved)	µg/L	-	-	59	59	19000	160000
Manganese	µg/L	-	43	98	97	5.7	8800
Manganese (dissolved)	µg/L	-	43	59	57	5.6	1600
Manganese 2+	µg/L	-	-	18	11	28	3076
Mercury	µg/L	2	0.063	103	9	0.14	0.39
Nickel	µg/L	-	39	98	67	1.1	480
Nickel (dissolved)	µg/L	-	39	59	33	1.5	78
Potassium	µg/L	-	-	98	98	2020	52000
Potassium (dissolved)	µg/L	-	-	59	59	1960	15000
Selenium	µg/L	50	10	103	66	1.1	60

Table 4.3

Summary of Detected Parameters
Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Metals (cont'd)							
Selenium (dissolved)	µg/L	50	10	59	43	1.5	60
Silver	µg/L	-	9.4	103	13	0.058	2
Silver (dissolved)	µg/L	-	9.4	59	5	0.059	0.44
Sodium	µg/L	-	-	98	98	11000	190000
Sodium (dissolved)	µg/L	-	-	59	59	12400	200000
Thallium	µg/L	2	0.02	98	19	0.22	5.4
Thallium (dissolved)	µg/L	2	0.02	59	7	0.21	1.5
Vanadium	µg/L	-	8.6	98	42	0.91	470
Vanadium (dissolved)	µg/L	-	8.6	59	10	0.82	84
Zinc	µg/L	-	600	98	47	5.4	6000
Zinc (dissolved)	µg/L	-	600	59	40	18	6600
PCBs							
Aroclor-1248 (PCB-1248)	µg/L	-	0.0078	64	1	0.39	0.39
Aroclor-1260 (PCB-1260)	µg/L	-	0.0078	64	1	0.082	0.082
Pesticides							
alpha-BHC	µg/L	-	0.0072	42	1	0.038	0.038
delta-BHC	µg/L	-	-	42	1	0.011	0.011
Dieldrin	µg/L	-	0.0018	42	1	0.013	0.013
gamma-BHC (lindane)	µg/L	0.2	0.042	42	1	0.016	0.016
Heptachlor	µg/L	0.4	0.0014	42	3	0.0085	0.0095
Gases							
Ethane	µg/L	-	-	26	4	1.4	3.4
Methane	µg/L	-	-	26	21	0.19	8200
General Chemistry							
Alkalinity, total (as CaCO3)	µg/L	-	-	26	26	194000	598000
Chloride	µg/L	-	-	77	77	19500	370000
Cyanide (total)	µg/L	200	0.15	25	1	9.2	9.2
Dissolved organic carbon (DOC)	µg/L	-	-	18	18	1000	8000
Hardness	µg/L	-	-	18	18	224000	599000
Nitrate (as N)	µg/L	10000	3200	77	62	93	13000
Nitrite (as N)	µg/L	1000	200	69	18	14	260
Sulfate	µg/L	-	-	77	74	1200	140000
Total organic carbon (TOC)	µg/L	-	-	8	5	1000	5000

Table 4.4

Summary of Detected Parameters
Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Volatiles							
1,1,1-Trichloroethane	µg/L	200	800	198	2	0.59	1.3
1,1,2,2-Tetrachloroethane	µg/L	-	0.076	198	1	4.2	4.2
1,1-Dichloroethane	µg/L	-	2.8	198	18	0.17	1.3
1,1-Dichloroethene	µg/L	7	28	198	2	0.88	1.1
1,2,4-Trichlorobenzene	µg/L	70	0.4	198	2	0.26	5.3
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.00033	198	1	0.011	0.011
1,2-Dichloroethane	µg/L	5	0.17	198	3	0.82	1.6
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	197	11	0.57	5.4
2-Hexanone	µg/L	-	3.8	198	1	11	11
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	630	198	1	13	13
Acetone	µg/L	-	1400	198	13	1.3	15
Benzene	µg/L	5	0.46	198	55	0.17	360
Bromodichloromethane	µg/L	80	0.13	198	12	0.18	2.3
Carbon disulfide	µg/L	-	81	198	8	0.34	1.2
Chloroform (Trichloromethane)	µg/L	80	0.22	198	50	0.17	5.2
Chloromethane (Methyl chloride)	µg/L	-	19	198	1	0.52	0.52
cis-1,2-Dichloroethene	µg/L	70	3.6	198	123	0.18	840
Cyclohexane	µg/L	-	1300	198	86	0.12	890
Dibromochloromethane	µg/L	80	0.87	198	5	0.46	1.2
Ethylbenzene	µg/L	700	1.5	198	22	0.11	1600
Isopropyl benzene	µg/L	-	45	198	15	1.3	75
m&p-Xylenes	µg/L	-	-	61	14	0.11	4800
Methyl cyclohexane	µg/L	-	-	198	20	0.58	190
Methyl tert butyl ether (MTBE)	µg/L	-	14	198	2	0.17	0.22
Methylene chloride	µg/L	5	11	198	1	9.1	9.1
o-Xylene	µg/L	-	19	61	2	1.1	1.7
Styrene	µg/L	100	120	198	2	0.53	0.54
Toluene	µg/L	1000	110	198	138	0.14	25
trans-1,2-Dichloroethene	µg/L	100	36	198	32	0.19	7
Trichloroethene	µg/L	5	0.28	198	14	0.14	6.9
Vinyl chloride	µg/L	2	0.019	198	115	0.22	260
Xylenes (total)	µg/L	10000	19	198	29	0.47	4800
Semi-Volatiles							
2,4-Dimethylphenol	µg/L	-	36	21	1	0.93	0.93
2-Methylnaphthalene	µg/L	-	3.6	21	2	1.5	110
Acenaphthene	µg/L	-	53	21	1	0.33	0.33
Acenaphthylene	µg/L	-	-	21	1	0.13	0.13
Biphenyl (1,1-Biphenyl)	µg/L	-	0.083	21	1	0.46	0.46
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	5.6	21	3	1	7.9
Dibenz(a,h)anthracene	µg/L	-	0.025	21	1	0.35	0.35
Diethyl phthalate	µg/L	-	1500	21	1	0.66	0.66
Fluoranthene	µg/L	-	80	21	1	0.19	0.19
Fluorene	µg/L	-	29	21	1	0.2	0.2
Indeno(1,2,3-cd)pyrene	µg/L	-	0.25	21	1	0.35	0.35
Naphthalene	µg/L	-	0.17	21	2	1.8	250
Phenanthrene	µg/L	-	-	21	1	0.15	0.15
Metals							
Aluminum	µg/L	-	2000	71	62	35	63000
Aluminum (dissolved)	µg/L	-	2000	66	15	55	16000
Antimony	µg/L	6	0.78	71	22	0.15	1.8
Antimony (dissolved)	µg/L	6	0.78	66	7	0.57	5.6
Arsenic	µg/L	10	0.052	176	176	0.97	221

Table 4.4

Summary of Detected Parameters
Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Metals (cont'd)							
Arsenic (dissolved)	µg/L	10	0.052	141	139	0.49	10.7
Barium	µg/L	2000	380	71	71	78	1200
Barium (dissolved)	µg/L	2000	380	66	66	65	1200
Beryllium	µg/L	4	2.5	71	22	0.32	3.4
Beryllium (dissolved)	µg/L	4	2.5	66	12	0.32	0.94
Cadmium	µg/L	5	0.92	71	15	0.21	1.3
Cadmium (dissolved)	µg/L	5	0.92	66	3	0.22	0.34
Calcium	µg/L	-	-	71	71	65000	480000
Calcium (dissolved)	µg/L	-	-	66	66	63000	160000
Chromium	µg/L	100	-	71	44	1.1	110
Chromium (dissolved)	µg/L	100	-	66	10	1.1	24
Cobalt	µg/L	-	0.6	71	55	0.19	39
Cobalt (dissolved)	µg/L	-	0.6	66	35	0.19	7.7
Copper	µg/L	1300	80	71	39	1.7	130
Copper (dissolved)	µg/L	1300	80	66	6	2.2	27
Iron	µg/L	-	1400	71	71	1800	91000
Iron (dissolved)	µg/L	-	1400	66	65	1100	21000
Lead	µg/L	15	15	176	154	0.28	392
Lead (dissolved)	µg/L	15	15	141	47	0.19	16
Magnesium	µg/L	-	-	71	71	30000	160000
Magnesium (dissolved)	µg/L	-	-	66	66	28000	55000
Manganese	µg/L	-	43	71	71	52	2800
Manganese (dissolved)	µg/L	-	43	66	66	44	760
Manganese 2+	µg/L	-	-	8	7	37	925
Nickel	µg/L	-	39	71	45	1.5	110
Nickel (dissolved)	µg/L	-	39	66	18	1.5	22
Potassium	µg/L	-	-	71	71	2680	24000
Potassium (dissolved)	µg/L	-	-	66	66	2560	18000
Selenium	µg/L	50	10	71	20	0.95	5.4
Selenium (dissolved)	µg/L	50	10	66	5	0.92	1.4
Silver	µg/L	-	9.4	71	14	0.056	23
Silver (dissolved)	µg/L	-	9.4	66	1	3.2	3.2
Sodium	µg/L	-	-	71	71	23800	84000
Sodium (dissolved)	µg/L	-	-	66	66	23500	83000
Thallium	µg/L	2	0.02	71	18	0.21	1.5
Thallium (dissolved)	µg/L	2	0.02	66	4	0.2	0.35
Vanadium	µg/L	-	8.6	71	39	0.68	130
Vanadium (dissolved)	µg/L	-	8.6	66	9	0.85	31
Zinc	µg/L	-	600	71	56	28.3	2300
Zinc (dissolved)	µg/L	-	600	66	55	110	2300
Pesticides							
Endosulfan I	µg/L	-	-	14	1	0.17	0.17
Gases							
Ethane	µg/L	-	-	11	7	0.28	4.8
Ethene	µg/L	-	-	11	6	0.26	4.1
Methane	µg/L	-	-	11	11	1.6	200
General Chemistry							
Alkalinity, total (as CaCO3)	µg/L	-	-	11	11	288000	454000
Chloride	µg/L	-	-	71	71	52000	180000
Dissolved organic carbon (DOC)	µg/L	-	-	11	11	1000	3000
Hardness	µg/L	-	-	11	11	369000	465000
Nitrate (as N)	µg/L	10000	3200	71	34	14	4600
Sulfate	µg/L	-	-	71	71	4200	109000

Table 5.1

Summary of Detected Parameters
Soil/Fill Samples
Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Risk-Based SSL a	MCL-Based SSL b	Samples	Detects	Detection Frequency	Min Detect	Max Detect
Volatiles								
1,1,1-Trichloroethane	µg/kg	280	70	74	2	2.7%	1	94[b]
1,4-Dichlorobenzene	µg/kg	0.46	72	64	1	1.6%	23[a]	23[a]
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	120	-	73	26	35.6%	2.5	38
Acetone	µg/kg	290	-	73	22	30.1%	13	250
Benzene	µg/kg	0.23	2.6	73	3	4.1%	0.33[a]	0.9[a]
Carbon disulfide	µg/kg	24	-	73	1	1.4%	2.8	2.8
cis-1,2-Dichloroethene	µg/kg	1.1	21	73	2	2.7%	0.47	5[a]
Cyclohexane	µg/kg	1300	-	74	6	8.1%	0.43	210
Ethylbenzene	µg/kg	1.7	780	71	4	5.6%	0.38	380[a]
Isopropyl benzene	µg/kg	74	-	71	1	1.4%	140[a]	140[a]
Methyl cyclohexane	µg/kg	-	-	74	9	12.2%	0.55	410
Methylene chloride	µg/kg	2.7	1.3	74	1	1.4%	500[ab]	500[ab]
Tetrachloroethene	µg/kg	1.8	2.3	71	6	8.5%	0.34	72[ab]
Toluene	µg/kg	76	690	71	10	14.1%	0.92	430[a]
Xylenes (total)	µg/kg	19	9900	71	5	7.0%	0.68	2800[a]
Semi-Volatiles								
2-Methylnaphthalene	µg/kg	19	-	75	58	77.3%	5.9	6300[a]
Acenaphthene	µg/kg	550	-	75	36	48.0%	4.4	54000[a]
Acenaphthylene	µg/kg	-	-	75	43	57.3%	4.5	1100
Acetophenone	µg/kg	58	-	75	7	9.3%	10	95[a]
Anthracene	µg/kg	5800	-	75	57	76.0%	4.2	120000[a]
Benzaldehyde	µg/kg	4.1	-	75	7	9.3%	16[a]	120[a]
Benzo(a)anthracene	µg/kg	11	-	75	67	89.3%	8	260000[a]
Benzo(a)pyrene	µg/kg	29	240	75	71	94.7%	5.1	270000[ab]
Benzo(b)fluoranthene	µg/kg	300	-	75	71	94.7%	8.5	330000[a]
Benzo(g,h,i)perylene	µg/kg	-	-	75	64	85.3%	6.3	120000
Benzo(k)fluoranthene	µg/kg	2900	-	75	54	72.0%	7.1	130000[a]
Biphenyl (1,1-Biphenyl)	µg/kg	0.87	-	75	11	14.7%	8.1[a]	260[a]
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	1400	75	20	26.7%	60	4700[ab]
Caprolactam	µg/kg	250	-	75	1	1.3%	320[a]	320[a]
Carbazole	µg/kg	-	-	75	29	38.7%	22	92000
Chrysene	µg/kg	9000	-	75	66	88.0%	8.3	250000[a]
Dibenz(a,h)anthracene	µg/kg	96	-	75	37	49.3%	6.2	39000[a]
Dibenzofuran	µg/kg	15	-	75	31	41.3%	14	30000[a]
Di-n-butylphthalate (DBP)	µg/kg	230	-	75	7	9.3%	25	250[a]
Fluoranthene	µg/kg	8900	-	75	73	97.3%	9.8	590000[a]
Fluorene	µg/kg	540	-	75	42	56.0%	3.8	62000[a]
Hexachlorobenzene	µg/kg	0.12	13	75	1	1.3%	36[ab]	36[ab]
Indeno(1,2,3-cd)pyrene	µg/kg	980	-	75	60	80.0%	5.4	120000[a]
Isophorone	µg/kg	26	-	75	1	1.3%	110[a]	110[a]
Naphthalene	µg/kg	0.54	-	75	54	72.0%	5.3[a]	18000[a]
Pentachlorophenol	µg/kg	0.057	1.4	75	1	1.3%	860[ab]	860[ab]
Phenanthrene	µg/kg	-	-	75	71	94.7%	4.4	480000
Phenol	µg/kg	330	-	75	4	5.3%	13	27
Pyrene	µg/kg	1300	-	75	73	97.3%	9.1	450000[a]
Metals								
Aluminum	mg/kg	3000	-	75	75	100.0%	1500	17000[a]
Antimony	mg/kg	0.035	0.27	75	64	85.3%	0.13[a]	12[ab]
Arsenic	mg/kg	0.0015	0.29	75	75	100.0%	0.74[ab]	59[ab]
Barium	mg/kg	16	82	75	75	100.0%	9.6	1000[ab]
Beryllium	mg/kg	1.9	3.2	75	75	100.0%	0.099	5.2[ab]

Table 5.1

Summary of Detected Parameters
Soil/Fill Samples
Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Risk-Based SSL a	MCL-Based SSL b	Samples	Detects	Detection Frequency	Min Detect	Max Detect
Metals (cont'd)								
Cadmium	mg/kg	0.069	0.38	75	72	96.0%	0.057	15[ab]
Calcium	mg/kg	-	-	75	75	100.0%	1900	410000
Chromium	mg/kg	-	180000	76	76	100.0%	2.9	280
Chromium III (trivalent)	mg/kg	4000000	-	68	68	100.0%	2.1	280
Chromium VI (hexavalent)	mg/kg	0.00067	-	68	28	41.2%	0.29[a]	7.5[a]
Cobalt	mg/kg	0.027	-	75	75	100.0%	0.77[a]	27[a]
Copper	mg/kg	2.8	46	75	75	100.0%	3.5[a]	960[ab]
Iron	mg/kg	35	-	75	75	100.0%	1200[a]	54000[a]
Lead	mg/kg	-	14	75	75	100.0%	1.7	1000[b]
Lead - coarse fraction	mg/kg	-	-	7	7	100.0%	17	100
Lead - fine fraction	mg/kg	-	-	8	8	100.0%	25	310
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	7	7	100.0%	18	110
Magnesium	mg/kg	-	-	75	75	100.0%	340	65000
Manganese	mg/kg	2.8	-	75	75	100.0%	31[a]	6000[a]
Mercury	mg/kg	0.0033	0.1	75	66	88.0%	0.022[a]	0.61[ab]
Nickel	mg/kg	2.6	-	75	75	100.0%	7.4[a]	700[a]
Potassium	mg/kg	-	-	75	75	100.0%	180	2200
Selenium	mg/kg	0.052	0.26	75	70	93.3%	0.15[a]	10[ab]
Silver	mg/kg	0.08	-	75	64	85.3%	0.021	1.9[a]
Sodium	mg/kg	-	-	75	63	84.0%	59	620
Thallium	mg/kg	0.0014	0.14	75	69	92.0%	0.063[a]	2.7[ab]
Vanadium	mg/kg	8.6	-	75	75	100.0%	5.2	170[a]
Zinc	mg/kg	37	-	75	75	100.0%	4.9	1600[a]
PCBs								
Aroclor-1242 (PCB-1242)	µg/kg	1.2	-	75	1	1.3%	980[a]	980[a]
Aroclor-1248 (PCB-1248)	µg/kg	1.2	-	75	3	4.0%	59[a]	400[a]
Aroclor-1254 (PCB-1254)	µg/kg	2	-	75	16	21.3%	27[a]	16000[a]
Aroclor-1260 (PCB-1260)	µg/kg	5.5	-	75	2	2.7%	24[a]	74[a]
Pesticides								
4,4'-DDD	µg/kg	1.5	-	75	6	8.0%	1.8[a]	14[a]
4,4'-DDE	µg/kg	11	-	75	5	6.7%	2.1	28[a]
4,4'-DDT	µg/kg	77	-	75	12	16.0%	1.2	4.6
alpha-Chlordane	µg/kg	-	-	75	8	10.7%	2.3	36
beta-BHC	µg/kg	0.15	-	75	2	2.7%	1.9[a]	4.5[a]
Dieldrin	µg/kg	0.071	-	75	1	1.3%	2[a]	2[a]
Endosulfan I	µg/kg	-	-	75	1	1.3%	2.1	2.1
Endosulfan II	µg/kg	-	-	75	2	2.7%	3.7	4.3
Endrin	µg/kg	9.2	81	75	1	1.3%	130[ab]	130[ab]
Endrin aldehyde	µg/kg	-	-	75	3	4.0%	1.8	2.1
Endrin ketone	µg/kg	-	-	75	3	4.0%	1.4	21
gamma-BHC (lindane)	µg/kg	0.24	1.2	75	1	1.3%	3.8[ab]	3.8[ab]
gamma-Chlordane	µg/kg	-	-	75	9	12.0%	1.9	30
Heptachlor epoxide	µg/kg	0.028	4.1	75	5	6.7%	2[a]	130[ab]
General Chemistry								
Cyanide (total)	mg/kg	0.0015	2	75	22	29.3%	0.13[a]	1.3[a]
Fraction organic carbon (FOC)	%	-	-	1	1		0.5	0.5
Total solids	%	-	-	6	6		73.2	94.1

Table 5.2

Summary of Detected Parameters
Soil/Fill Samples
Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Risk-Based SSL a	MCL-Based SSL b	Samples	Detects	Detection Frequency	Min Detect	Max Detect
Volatiles								
1,1,1-Trichloroethane	µg/kg	280	70	330	14	4.2%	0.54	1500[ab]
1,1,2-Trichloroethane	µg/kg	0.013	1.6	320	2	0.6%	8.3[ab]	45[ab]
1,1-Dichloroethane	µg/kg	0.78	-	330	33	10.0%	0.46	720[a]
1,1-Dichloroethene	µg/kg	10	2.5	328	6	1.8%	0.89	79[ab]
1,2,4-Trichlorobenzene	µg/kg	1.2	200	293	7	2.4%	0.98	210[ab]
1,2-Dichlorobenzene	µg/kg	30	580	294	9	3.1%	1.1	250[a]
1,2-Dichloroethane	µg/kg	0.048	1.4	328	3	0.9%	4.3[ab]	1200[ab]
1,2-Dichloroethene (total)	µg/kg	-	-	20	1	5.0%	200	200
1,2-Dichloropropane	µg/kg	0.27	1.7	328	1	0.3%	1800[ab]	1800[ab]
1,3-Dichlorobenzene	µg/kg	-	-	299	10	3.3%	0.89	180
1,4-Dichlorobenzene	µg/kg	0.46	72	297	20	6.7%	0.87[a]	12000[ab]
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	120	-	343	97	28.3%	1	1900[a]
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	140	-	332	19	5.7%	0.52	1000[a]
Acetone	µg/kg	290	-	337	47	13.9%	3	28000[a]
Benzene	µg/kg	0.23	2.6	330	63	19.1%	0.2	11000[ab]
Carbon disulfide	µg/kg	24	-	329	44	13.4%	0.34	150[a]
Carbon tetrachloride	µg/kg	0.18	1.9	328	1	0.3%	2.7[ab]	2.7[ab]
Chlorobenzene	µg/kg	5.3	68	322	49	15.2%	0.37	560000[ab]
Chloroethane	µg/kg	590	-	328	6	1.8%	1.4	91
Chloroform (Trichloromethane)	µg/kg	0.061	22	328	5	1.5%	0.25[a]	0.66[a]
cis-1,2-Dichloroethene	µg/kg	1.1	21	320	72	22.5%	0.3	98000[ab]
Cyclohexane	µg/kg	1300	-	319	36	11.3%	0.31	1400[a]
Ethylbenzene	µg/kg	1.7	780	323	75	23.2%	0.28	350000[ab]
Isopropyl benzene	µg/kg	74	-	312	57	18.3%	0.27	57000[a]
Methyl acetate	µg/kg	410	-	318	36	11.3%	1.6	2400[a]
Methyl cyclohexane	µg/kg	-	-	320	92	28.8%	0.25	53000
Methyl tert butyl ether (MTBE)	µg/kg	3.2	-	318	2	0.6%	0.62	2
Methylene chloride	µg/kg	2.7	1.3	332	38	11.4%	0.65	4000[ab]
Styrene	µg/kg	130	110	320	2	0.6%	0.9	16
Tetrachloroethene	µg/kg	1.8	2.3	336	60	17.9%	0.34	40000[ab]
Toluene	µg/kg	76	690	337	146	43.3%	0.23	95000[ab]
trans-1,2-Dichloroethene	µg/kg	11	31	319	20	6.3%	0.53	300[ab]
Trichloroethene	µg/kg	0.1	1.8	343	117	34.1%	0.37[a]	28000[ab]
Trichlorofluoromethane (CFC-11)	µg/kg	330	-	318	1	0.3%	79	79
Trifluorotrichloroethane (CFC-113)	µg/kg	2600	-	317	1	0.3%	21	21
Vinyl chloride	µg/kg	0.0065	0.69	329	30	9.1%	0.28[a]	1100[ab]
Xylenes (total)	µg/kg	19	9900	332	99	29.8%	0.7	3000000[ab]
Semi-Volatiles								
2,4-Dimethylphenol	µg/kg	42	-	234	5	2.1%	33	1400[a]
2-Chlorophenol	µg/kg	8.9	-	235	1	0.4%	50[a]	50[a]
2-Methylnaphthalene	µg/kg	19	-	245	189	77.1%	4.1	29000[a]
2-Methylphenol	µg/kg	75	-	235	9	3.8%	13	330[a]
3&4-Methylphenol	µg/kg	-	-	159	15	9.4%	28	23000
3,3'-Dichlorobenzidine	µg/kg	0.82	-	222	1	0.5%	890[a]	890[a]
Acenaphthene	µg/kg	550	-	245	109	44.5%	4.3	120000[a]
Acenaphthylene	µg/kg	-	-	235	101	43.0%	4	3100
Acetophenone	µg/kg	58	-	225	41	18.2%	14	3900[a]
Anthracene	µg/kg	5800	-	245	160	65.3%	4.3	200000[a]
Benzaldehyde	µg/kg	4.1	-	225	35	15.6%	15[a]	420[a]

Table 5.2

Summary of Detected Parameters
Soil/Fill Samples
Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Risk-Based SSL a	MCL-Based SSL b	Samples	Detects	Detection Frequency	Min Detect	Max Detect
Semi-Volatiles (cont'd)								
Benzo(a)anthracene	µg/kg	11	-	245	196	80.0%	5.3	390000[a]
Benzo(a)pyrene	µg/kg	29	240	245	188	76.7%	7.4	340000[ab]
Benzo(b)fluoranthene	µg/kg	300	-	245	204	83.3%	7.1	460000[a]
Benzo(g,h,i)perylene	µg/kg	-	-	245	182	74.3%	8.5	210000
Benzo(k)fluoranthene	µg/kg	2900	-	245	170	69.4%	7.6	170000[a]
Biphenyl (1,1-Biphenyl)	µg/kg	0.87	-	225	74	32.9%	4.4[a]	11000[a]
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	1400	246	95	38.6%	23	560000[ab]
Butyl benzylphthalate (BBP)	µg/kg	240	-	245	23	9.4%	25	45000[a]
Caprolactam	µg/kg	250	-	225	1	0.4%	44	44
Carbazole	µg/kg	-	-	235	62	26.4%	21	140000
Chrysene	µg/kg	9000	-	245	206	84.1%	8.1	350000[a]
Dibenz(a,h)anthracene	µg/kg	96	-	245	103	42.0%	8.3	66000[a]
Dibenzofuran	µg/kg	15	-	245	117	47.8%	10	71000[a]
Diethyl phthalate	µg/kg	610	-	235	17	7.2%	19	9700[a]
Dimethyl phthalate	µg/kg	-	-	235	2	0.9%	680	2000
Di-n-butylphthalate (DBP)	µg/kg	230	-	245	50	20.4%	18	6000[a]
Di-n-octyl phthalate (DnOP)	µg/kg	5700	-	235	1	0.4%	23	23
Fluoranthene	µg/kg	8900	-	245	221	90.2%	5.6	840000[a]
Fluorene	µg/kg	540	-	245	131	53.5%	3.8	150000[a]
Hexachlorobenzene	µg/kg	0.12	13	235	1	0.4%	350[ab]	350[ab]
Hexachlorobutadiene	µg/kg	0.27	-	235	1	0.4%	13[a]	13[a]
Indeno(1,2,3-cd)pyrene	µg/kg	980	-	245	171	69.8%	7.3	190000[a]
Isophorone	µg/kg	26	-	235	1	0.4%	44[a]	44[a]
Naphthalene	µg/kg	0.54	-	245	182	74.3%	5.6[a]	110000[a]
N-Nitrosodiphenylamine	µg/kg	67	-	245	3	1.2%	53	450[a]
Pentachlorophenol	µg/kg	0.057	1.4	234	1	0.4%	110[ab]	110[ab]
Phenanthrene	µg/kg	-	-	245	219	89.4%	7.9	690000
Phenol	µg/kg	330	-	235	27	11.5%	12	6600[a]
Pyrene	µg/kg	1300	-	245	222	90.6%	7	670000[a]
Metals								
Aluminum	mg/kg	3000	-	245	245	100.0%	840	21700[a]
Antimony	mg/kg	0.035	0.27	245	206	84.1%	0.12[a]	1400[ab]
Arsenic	mg/kg	0.0015	0.29	246	245	99.6%	1.5[ab]	120[ab]
Barium	mg/kg	16	82	245	245	100.0%	6.3	7810[ab]
Beryllium	mg/kg	1.9	3.2	245	232	94.7%	0.051	6.9[ab]
Cadmium	mg/kg	0.069	0.38	245	228	93.1%	0.057	64[ab]
Calcium	mg/kg	-	-	245	245	100.0%	580	217000
Chromium	mg/kg	-	180000	253	253	100.0%	2.4	1080
Chromium III (trivalent)	mg/kg	4000000	-	128	128	100.0%	5.1	370
Chromium VI (hexavalent)	mg/kg	0.00067	-	128	34	26.6%	0.3[a]	16[a]
Cobalt	mg/kg	0.027	-	245	244	99.6%	0.76[a]	317[a]
Copper	mg/kg	2.8	46	245	245	100.0%	6[a]	191000[ab]
Iron	mg/kg	35	-	245	245	100.0%	1860[a]	210000[a]
Lead	mg/kg	-	14	246	246	100.0%	2.5	26000[b]
Lead - coarse fraction	mg/kg	-	-	22	22	100.0%	18	47000
Lead - fine fraction	mg/kg	-	-	22	22	100.0%	26	28000
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	22	22	100.0%	19	43000
Magnesium	mg/kg	-	-	245	245	100.0%	290	97000
Manganese	mg/kg	2.8	-	245	245	100.0%	6.9[a]	2600[a]
Mercury	mg/kg	0.0033	0.1	245	196	80.0%	0.016[a]	6.1[ab]

Table 5.2

Summary of Detected Parameters
Soil/Fill Samples
Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Risk-Based SSL a	MCL-Based SSL b	Samples	Detects	Detection Frequency	Min Detect	Max Detect
Metals (cont'd)								
Nickel	mg/kg	2.6	-	245	245	100.0%	4[a]	860[a]
Potassium	mg/kg	-	-	245	241	98.4%	81	2600
Selenium	mg/kg	0.052	0.26	245	191	78.0%	0.14[a]	38[ab]
Silver	mg/kg	0.08	-	245	182	74.3%	0.018	28[a]
Sodium	mg/kg	-	-	245	190	77.6%	43.7	3110
Thallium	mg/kg	0.0014	0.14	245	189	77.1%	0.075[a]	4.5[ab]
Vanadium	mg/kg	8.6	-	245	245	100.0%	0.62	170[a]
Zinc	mg/kg	37	-	245	245	100.0%	7.7	21900[a]
PCBs								
Aroclor-1232 (PCB-1232)	µg/kg	0.08	-	250	1	0.4%	1100[a]	1100[a]
Aroclor-1242 (PCB-1242)	µg/kg	1.2	-	250	23	9.2%	44[a]	930000[a]
Aroclor-1248 (PCB-1248)	µg/kg	1.2	-	260	14	5.4%	59[a]	8600[a]
Aroclor-1254 (PCB-1254)	µg/kg	2	-	250	107	42.8%	19[a]	450000[a]
Aroclor-1260 (PCB-1260)	µg/kg	5.5	-	260	38	14.6%	23[a]	14000[a]
Pesticides								
4,4'-DDD	µg/kg	1.5	-	234	12	5.1%	2[a]	43[a]
4,4'-DDE	µg/kg	11	-	234	43	18.4%	0.44	280[a]
4,4'-DDT	µg/kg	77	-	234	34	14.5%	0.6	820[a]
alpha-BHC	µg/kg	0.042	-	234	3	1.3%	1.9[a]	13[a]
alpha-Chlordane	µg/kg	-	-	234	4	1.7%	1.7	13
beta-BHC	µg/kg	0.15	-	234	5	2.1%	2.2[a]	20[a]
delta-BHC	µg/kg	-	-	234	1	0.4%	130	130
Dieldrin	µg/kg	0.071	-	234	16	6.8%	3.3[a]	560[a]
Endosulfan I	µg/kg	-	-	234	1	0.4%	1.5	1.5
Endosulfan II	µg/kg	-	-	234	2	0.9%	4	22
Endosulfan sulfate	µg/kg	210	-	234	1	0.4%	1.7	1.7
Endrin	µg/kg	9.2	81	234	8	3.4%	1.4	140[ab]
Endrin aldehyde	µg/kg	-	-	234	20	8.5%	1.6	280
Endrin ketone	µg/kg	-	-	234	7	3.0%	1.1	96
gamma-BHC (lindane)	µg/kg	0.24	1.2	234	4	1.7%	0.42[a]	3400[ab]
gamma-Chlordane	µg/kg	-	-	234	17	7.3%	0.35	180
Heptachlor epoxide	µg/kg	0.028	4.1	234	9	3.8%	0.49[a]	75[ab]
Methoxychlor	µg/kg	200	2200	234	23	9.8%	0.94	20
Herbicides								
2,4,5-TP (Silvex)	µg/kg	6.1	28	85	1	1.2%	4.6	4.6
Petroleum Products								
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	1	1		1400000	1400000
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	1	1		410000	410000
Dioxin/Furans								
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	49	34	69.4%	1.3	2300
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	49	49	100.0%	4.9	9400
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	49	42	85.7%	0.8	1800
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	49	47	95.9%	2.7	1600
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	49	32	65.3%	0.083	240
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	41	83.7%	0.27	960
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	33	67.3%	0.11	48
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	41	83.7%	0.2	330
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	43	87.8%	0.2	810
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	2	4.1%	0.21	0.88

Table 5.2

Summary of Detected Parameters
Soil/Fill Samples
Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	Risk-Based SSL [a]	MCL-Based SSL [b]	Samples	Detects	Detection Frequency	Min Detect	Max Detect
Dioxin/Furans (cont'd)								
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	41	83.7%	0.35	510
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	49	36	73.5%	0.27	210
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	49	32	65.3%	0.26	430
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	38	77.6%	0.19	330
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	49	42	85.7%	0.15	440
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	49	43	87.8%	0.24	710
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.059	15	49	30	61.2%	**0.078[a]**	**180[ab]**
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	49	49	100.0%	1.4	2700
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	49	48	98.0%	3.8	3800
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	49	100.0%	1.3	3200
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	47	95.9%	1.6	8700
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	49	48	98.0%	2.4	4800
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	49	45	91.8%	0.53	270000
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	49	48	98.0%	3.5	8300
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	49	44	89.8%	0.45	7900
Asbestos								
Chrysotile asbestos	%	-	-	29	29		0.25	60
General Chemistry								
Cellulose	%	-	-	1	1		20	20
Cyanide (total)	mg/kg	0.0015	2	229	99	43.2%	**0.051[a]**	**120[ab]**
Fraction organic carbon (FOC)	%	-	-	12	12		0.2	11.2
Soot carbon	mg/kg	-	-	5	5		1300	67000
Total organic carbon (TOC)	mg/kg	-	-	5	5		5200	32000
Total solids	%	-	-	68	68		52.4	96.7

Table 5.3

Summary of Detected Parameters
Groundwater Samples - OU1 Upper Aquifer (Southern Area)
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL [a]	Tapwater [b]	# Samples	# Detects	Min	Max
Volatiles							
1,1,1-Trichloroethane	µg/L	200	800	37	1	0.67	0.67
1,1-Dichloroethane	µg/L	-	2.8	37	7	0.24	1.1
cis-1,2-Dichloroethene	µg/L	70	3.6	21	8	0.33	1.1
Cyclohexane	µg/L	-	1300	21	7	0.14	0.21
Methylene chloride	µg/L	5	11	37	3	5.4[a]	51[ab]
Toluene	µg/L	1000	110	37	13	0.15	7
Trichloroethene	µg/L	5	0.28	37	5	0.72[b]	2[b]
Vinyl chloride	µg/L	2	0.019	37	11	0.27[b]	1[b]
Semi-Volatiles							
Acenaphthene	µg/L	-	53	11	1	0.21	0.21
Anthracene	µg/L	-	180	11	1	0.21	0.21
Benzo(a)anthracene	µg/L	-	0.03	11	1	0.57[b]	0.57[b]
Benzo(a)pyrene	µg/L	0.2	0.025	11	1	1.1[ab]	1.1[ab]
Benzo(b)fluoranthene	µg/L	-	0.25	11	1	1.1[b]	1.1[b]
Benzo(g,h,i)perylene	µg/L	-	-	11	1	0.29	0.29
Benzo(k)fluoranthene	µg/L	-	2.5	11	1	0.33	0.33
Caprolactam	µg/L	-	990	11	2	3.7	11
Chrysene	µg/L	-	25	11	1	0.55	0.55
Fluoranthene	µg/L	-	80	11	1	1.1	1.1
Indeno(1,2,3-cd)pyrene	µg/L	-	0.25	11	1	0.24	0.24
Phenanthrene	µg/L	-	-	11	1	0.74	0.74
Pyrene	µg/L	-	12	11	1	0.91	0.91
Metals							
Aluminum	µg/L	-	2000	6	6	150	820
Aluminum (dissolved)	µg/L	-	2000	6	2	72	72
Arsenic	µg/L	10	0.052	16	15	1.1[b]	174[ab]
Arsenic (dissolved)	µg/L	10	0.052	7	5	1[b]	6.3[b]
Barium	µg/L	2000	380	8	7	136	630[b]
Barium (dissolved)	µg/L	2000	380	6	6	110	400[b]
Calcium	µg/L	-	-	6	6	22000	77000
Calcium (dissolved)	µg/L	-	-	6	6	23000	150000
Chromium	µg/L	100	-	8	4	1.3	65
Cobalt	µg/L	-	0.6	6	3	0.33	0.89[b]
Cobalt (dissolved)	µg/L	-	0.6	6	3	0.25	0.64[b]
Copper	µg/L	1300	80	6	1	1.8	1.8
Iron	µg/L	-	1400	6	6	640	2000[b]
Iron (dissolved)	µg/L	-	1400	8	8	150	3000[b]
Lead	µg/L	15	15	16	13	0.4	451[ab]
Magnesium	µg/L	-	-	6	6	5800	32400
Magnesium (dissolved)	µg/L	-	-	6	6	5900	53000
Manganese	µg/L	-	43	6	6	36	220[b]
Manganese (dissolved)	µg/L	-	43	6	6	34	440[b]
Manganese 2+	µg/L	-	-	1	1	260	260
Nickel	µg/L	-	39	6	3	2.3	3.2
Nickel (dissolved)	µg/L	-	39	6	5	1.5	7.4
Potassium	µg/L	-	-	6	6	6800	21000
Potassium (dissolved)	µg/L	-	-	6	6	6800	22000
Silver	µg/L	-	9.4	6	3	0.2	1.6
Silver (dissolved)	µg/L	-	9.4	6	2	0.064	0.072
Sodium	µg/L	-	-	6	6	40600	105000
Sodium (dissolved)	µg/L	-	-	6	6	43800	91000
Thallium (dissolved)	µg/L	2	0.02	6	2	5.1[ab]	5.5[ab]
Vanadium	µg/L	-	8.6	6	1	1.8	1.8
PCBs							
Pesticides							

Summary of Detected Parameters
Groundwater Samples - OU1 Upper Aquifer (Southern Area)
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL a	Tapwater b	# Samples	# Detects	Min	Max
Gases							
Ethane	µg/L	-	-	3	3	1	4
Methane	µg/L	-	-	5	5	280	1300
Herbicides							
General Chemistry							
Alkalinity, total (as CaCO3)	µg/L	-	-	3	3	270000	340000
Ammonia-N	µg/L	-	-	2	2	1000	1700
Chloride	µg/L	-	-	6	6	33000	96300
Dissolved organic carbon (DOC)	µg/L	-	-	1	1	4000	4000
Hardness	µg/L	-	-	1	1	291000	291000
Nitrate (as N)	µg/L	10000	3200	6	1	33	33
Sulfate	µg/L	-	-	6	6	21000	94500
Total organic carbon (TOC)	µg/L	-	-	2	2	4000	4000

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

D - Result was obtained from the analysis of a dilution.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.

R - Rejected.

U - Non-detect at associated value.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Table 5.4

Summary of Detected Parameters
Groundwater Samples - OU1 Upper Aquifer (Central Area and Northern Area)
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL [a]	Tapwater [b]	# Samples	# Detects	Min	Max
Volatiles							
1,1,1-Trichloroethane	µg/L	200	800	312	31	0.22	15
1,1-Dichloroethane	µg/L	-	2.8	312	104	0.18	39[b]
1,1-Dichloroethene	µg/L	7	28	259	6	0.24	1.1
1,2,4-Trichlorobenzene	µg/L	70	0.4	259	1	1.2[b]	1.2[b]
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.00033	257	1	0.0096[b]	0.0096[b]
1,2-Dichlorobenzene	µg/L	600	30	259	18	0.13	1.8
1,2-Dichloroethane	µg/L	5	0.17	312	4	2[b]	34[ab]
1,2-Dichloroethene (total)	µg/L	-	-	55	25	2	480
1,2-Dichloropropane	µg/L	5	0.82	259	2	0.54	0.62
1,3-Dichlorobenzene	µg/L	-	-	259	2	0.31	0.44
1,4-Dichlorobenzene	µg/L	75	0.48	259	19	0.16	5.6[b]
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	259	23	0.57	19
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	630	259	4	0.34	21
Acetone	µg/L	-	1400	312	30	1.1	30
Benzene	µg/L	5	0.46	312	71	0.15	100[ab]
Bromodichloromethane	µg/L	80	0.13	259	5	0.34[b]	1.3[b]
Bromoform	µg/L	80	3.3	312	1	0.6	0.6
Carbon disulfide	µg/L	-	81	259	8	0.17	1.2
Chlorobenzene	µg/L	100	7.8	312	74	0.2	130[ab]
Chloroethane	µg/L	-	2100	311	16	0.52	9.4
Chloroform (Trichloromethane)	µg/L	80	0.22	259	23	0.22	3.1[b]
Chloromethane (Methyl chloride)	µg/L	-	19	259	1	0.34	0.34
cis-1,2-Dichloroethene	µg/L	70	3.6	257	186	0.17	3900[ab]
Cyclohexane	µg/L	-	1300	257	67	0.12	6.9
Dibromochloromethane	µg/L	80	0.87	259	5	0.28	0.76
Dichlorodifluoromethane (CFC-12)	µg/L	-	20	257	1	0.36	0.36
Ethylbenzene	µg/L	700	1.5	259	47	0.2	100[b]
Isopropyl benzene	µg/L	-	45	257	19	0.17	36
m&p-Xylenes	µg/L	-	-	60	6	0.15	12
Methyl acetate	µg/L	-	2000	257	1	0.38	0.38
Methyl cyclohexane	µg/L	-	-	257	21	0.17	40
Methyl tert butyl ether (MTBE)	µg/L	-	14	257	20	0.19	2
Methylene chloride	µg/L	5	11	312	12	0.7	15[ab]
o-Xylene	µg/L	-	19	60	4	0.25	6.6
Styrene	µg/L	100	120	312	4	0.13	0.78
Tetrachloroethene	µg/L	5	4.1	312	18	0.29	4.6[b]
Toluene	µg/L	1000	110	312	151	0.13	270[b]
trans-1,2-Dichloroethene	µg/L	100	36	257	46	0.19	4.3
Trichloroethene	µg/L	5	0.28	312	156	0.17	5100[ab]
Vinyl chloride	µg/L	2	0.019	312	119	0.22[b]	760[ab]
Xylenes (total)	µg/L	10000	19	312	44	0.26	190[b]
Semi-Volatiles							
2-Methylnaphthalene	µg/L	-	3.6	77	10	0.13	56[b]
4-Methylphenol	µg/L	-	190	51	2	1.5	1.7
Acenaphthene	µg/L	-	53	77	4	0.44	10
Anthracene	µg/L	-	180	77	3	0.43	1.3
Benzo(a)anthracene	µg/L	-	0.03	77	3	0.21[b]	1.3[b]
Benzo(a)pyrene	µg/L	0.2	0.025	77	4	0.56[ab]	1[ab]
Benzo(b)fluoranthene	µg/L	-	0.25	77	4	0.17	1.2[b]
Benzo(g,h,i)perylene	µg/L	-	-	77	2	0.43	0.9
Benzo(k)fluoranthene	µg/L	-	2.5	77	2	0.29	0.45
Biphenyl (1,1-Biphenyl)	µg/L	-	0.083	75	2	0.41[b]	1.2[b]
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	5.6	77	11	0.85	160[ab]
Butyl benzylphthalate (BBP)	µg/L	-	16	77	1	1.1	1.1
Caprolactam	µg/L	-	990	74	8	0.34	20
Carbazole	µg/L	-	-	75	3	0.7	3.3

Summary of Detected Parameters
Groundwater Samples - OU1 Upper Aquifer (Central Area and Northern Area)
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL [a]	Tapwater [b]	# Samples	# Detects	Min	Max
Semi-Volatiles (cont'd)							
Chrysene	µg/L	-	25	77	3	0.2	1.7
Dibenz(a,h)anthracene	µg/L	-	0.025	77	1	0.3[b]	0.3[b]
Dibenzofuran	µg/L	-	0.79	77	4	0.24	3.2[b]
Diethyl phthalate	µg/L	-	1500	77	4	0.68	1.3
Di-n-butylphthalate (DBP)	µg/L	-	90	77	4	0.76	3.5
Di-n-octyl phthalate (DnOP)	µg/L	-	20	77	1	1	1
Fluoranthene	µg/L	-	80	77	8	0.19	5.2
Fluorene	µg/L	-	29	77	5	0.29	2.2
Indeno(1,2,3-cd)pyrene	µg/L	-	0.25	77	3	0.3[b]	0.88[b]
Naphthalene	µg/L	-	0.17	171	18	0.19[b]	17[b]
Phenanthrene	µg/L	-	-	77	9	0.14	5.9
Phenol	µg/L	-	580	77	1	130	130
Pyrene	µg/L	-	12	77	6	0.24	3.9
Metals							
Aluminum	µg/L	-	2000	82	61	39	62000[b]
Aluminum (dissolved)	µg/L	-	2000	86	20	34	8700[b]
Antimony	µg/L	6	0.78	82	27	0.22	23[ab]
Antimony (dissolved)	µg/L	6	0.78	86	12	0.73	3.3[b]
Arsenic	µg/L	10	0.052	161	142	0.56[b]	3200[ab]
Arsenic (dissolved)	µg/L	10	0.052	91	56	0.66[b]	230[ab]
Barium	µg/L	2000	380	93	86	97	5000[ab]
Barium (dissolved)	µg/L	2000	380	86	86	85	5200[ab]
Beryllium	µg/L	4	2.5	82	26	0.31	4.3[ab]
Beryllium (dissolved)	µg/L	4	2.5	86	5	0.32	0.86
Cadmium	µg/L	5	0.92	93	22	0.22	14[ab]
Cadmium (dissolved)	µg/L	5	0.92	86	7	0.21	0.49
Calcium	µg/L	-	-	82	82	19000	1400000
Calcium (dissolved)	µg/L	-	-	86	86	16000	280000
Chromium	µg/L	100	-	93	46	1	610[a]
Chromium (dissolved)	µg/L	100	-	86	14	1.1	22
Cobalt	µg/L	-	0.6	82	63	0.3	72[b]
Cobalt (dissolved)	µg/L	-	0.6	86	62	0.19	33[b]
Copper	µg/L	1300	80	82	50	1.7	1900[ab]
Copper (dissolved)	µg/L	1300	80	86	33	1.8	39
Iron	µg/L	-	1400	82	77	56	390000[b]
Iron (dissolved)	µg/L	-	1400	96	87	64	28000[b]
Lead	µg/L	15	15	161	119	0.34	1940[ab]
Lead (dissolved)	µg/L	15	15	91	21	0.2	20[ab]
Magnesium	µg/L	-	-	82	82	4330	450000
Magnesium (dissolved)	µg/L	-	-	86	86	18000	110000
Manganese	µg/L	-	43	82	81	2.5	15000[b]
Manganese (dissolved)	µg/L	-	43	86	84	0.65	2400[b]
Manganese 2+	µg/L	-	-	10	7	119	1241
Mercury	µg/L	2	0.063	87	4	0.24[b]	0.56[b]
Nickel	µg/L	-	39	82	59	1.5	300[b]
Nickel (dissolved)	µg/L	-	39	86	53	1.5	28
Potassium	µg/L	-	-	82	81	1300	114000
Potassium (dissolved)	µg/L	-	-	86	85	1100	65000
Selenium	µg/L	50	10	87	38	1	25.3[b]
Selenium (dissolved)	µg/L	50	10	86	28	1.1	26.3[b]
Silver	µg/L	-	9.4	87	13	0.06	4.1
Silver (dissolved)	µg/L	-	9.4	86	2	0.054	0.066
Sodium	µg/L	-	-	82	82	11000	500000
Sodium (dissolved)	µg/L	-	-	86	86	12000	530000
Thallium	µg/L	2	0.02	82	26	0.2[b]	4.4[ab]

Table 5.4

Summary of Detected Parameters
Groundwater Samples - OU1 Upper Aquifer (Central Area and Northern Area)
South Dayton Dump and Landfill Site
Moraine, Ohio

Parameters	Units	MCL [a]	Tapwater [b]	# Samples	# Detects	Min	Max
Metals (cont'd)							
Thallium (dissolved)	µg/L	2	0.02	86	12	0.21[b]	6.7[ab]
Vanadium	µg/L	-	8.6	82	37	0.83	160[b]
Vanadium (dissolved)	µg/L	-	8.6	86	11	0.92	20[b]
Zinc	µg/L	-	600	82	47	10	5500[b]
Zinc (dissolved)	µg/L	-	600	86	41	34	4400[b]
PCBs							
Aroclor-1242 (PCB-1242)	µg/L	-	0.0078	70	2	0.063[b]	0.19[b]
Aroclor-1254 (PCB-1254)	µg/L	-	0.0078	70	3	0.051[b]	0.3[b]
Aroclor-1260 (PCB-1260)	µg/L	-	0.0078	70	2	0.16[b]	0.19[b]
Pesticides							
4,4'-DDE	µg/L	-	0.046	43	2	0.017	0.023
alpha-BHC	µg/L	-	0.0072	43	1	0.034[b]	0.034[b]
beta-BHC	µg/L	-	0.025	43	3	0.011	0.049[b]
delta-BHC	µg/L	-	-	43	3	0.013	0.02
Endosulfan I	µg/L	-	-	43	1	0.032	0.032
Heptachlor	µg/L	0.4	0.0014	43	2	0.0082[b]	0.051[b]
Gases							
Ethane	µg/L	-	-	22	16	0.31	5600
Ethene	µg/L	-	-	21	4	0.58	4000
Methane	µg/L	-	-	28	27	0.5	5700
Herbicides							
Petroleum Products							
General Chemistry							
Alkalinity, total (as CaCO3)	µg/L	-	-	21	21	270000	800000
Ammonia-N	µg/L	-	-	10	7	300	5400
Chloride	µg/L	-	-	81	81	11000	350000
Cyanide (total)	µg/L	200	0.15	34	10	7.4[b]	580[ab]
Dissolved organic carbon (DOC)	µg/L	-	-	11	11	2000	17000
Hardness	µg/L	-	-	10	10	413000	673000
Nitrate (as N)	µg/L	10000	3200	81	38	20	19000[ab]
Nitrite (as N)	µg/L	1000	200	71	13	17	140
Sulfate	µg/L	-	-	81	76	1300	250000
Total organic carbon (TOC)	µg/L	-	-	10	9	2000	11000

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

D - Result was obtained from the analysis of a dilution.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.

J - Estimated concentration.

NJ - Tentatively identified compound, estimated concentration.

P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.

R - Rejected.

U - Non-detect at associated value.

UJ - Not detected; associated reporting limit is estimated.

- - Not applicable.

Appendices

Appendix A
Stratigraphic and Instrumentation Logs

Appendix A.1
Monitoring Wells

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-230
DATE COMPLETED: 25 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

NORTHING: 634745.25
EASTING: 1485591.75

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GROUND SURFACE	737.22						
0	TOPSOIL	736.80	CONCRETE					
2	SM-SILTY SAND (FILL), trace to with gravel, pieces of wire and glass, compact, fine grained, poorly graded, dark gray/black, moist							0
4			BENTONITE GROUT	1RS		50		
6								
8								0
10	- increase in glass content, with nails at 10.0ft BGS		2 PVC WELL CASING					
12								0
14				2RS		70		
16								
18								0
20	SM-SILTY SAND, compact, fine grained, poorly graded, brown, moist	717.22						
22			BENTONITE CHIPS					0
24				3RS		80		
26	ML-SILT, trace clay, compact, brown, moist	711.22						
28	SM-SILTY SAND, with gravel, compact, fine grained, poorly graded, brown, moist	709.22						0
30	SM/GW-SILTY SAND/GRAVEL, trace cobble, compact, fine to medium sand, medium to coarse well graded gravel, brown, wet	707.22	2 PVC WELL SCREEN					
32								0
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-230
DATE COMPLETED: 25 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36			SAND PACK	4RS		90		0
38			NATURAL COLLAPSE					
40	END OF BOREHOLE @ 40.0ft BGS	697.22						
42			WELL DETAILS Screened interval: 710.22 to 700.22ft BGS 27.00 to 37.00ft BGS Length: 10ft Diameter: 2in Slot Size: 0.01 Material: SCH. 40 PVC Seal: 717.22 to 712.22ft BGS 20.00 to 25.00ft BGS Material: BENTONITE CHIPS Sand Pack: 712.22 to 700.22ft BGS 25.00 to 37.00ft BGS Material: SAND					
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-233
DATE COMPLETED: 14 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOP OF RISER GROUND SURFACE	730.08 727.26						
0	SW-SAND (FILL), little fine gravel, loose, fine, medium and coarse grained, well graded, black, dry		CONCRETE					
4	ML-CLAYEY SILT (FILL), little fine to medium gravel, trace fine to coarse sand, slightly cohesive, dark brown, dry	723.26	BENTONITE GROUT	1RS		80		
8	SW-SAND (NATIVE), little fine to coarse gravel, trace cobble, loose, fine, medium and coarse grained, well graded, tan/light brown, dry	719.26	2 PVC WELL CASING					1
12			6 BOREHOLE					
16			BENTONITE SLURRY	2RS		50		2.4
20	GW-SANDY GRAVEL, loose, medium to coarse sand, fine to coarse grained, well graded, gray, wet	706.26						0.4
24	- wet at 25.0ft BGS		▽					
26			2 PVC WELL SCREEN	3RS		58		
30			SAND PACK					
32	END OF BOREHOLE @ 32.0ft BGS	695.26						
34								

WELL DETAILS
Screened interval:
705.26 to 695.26ft BGS
22.00 to 32.00ft BGS

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-233
DATE COMPLETED: 14 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
36			Length: 10ft Diameter: 2in Slot Size: 0.01 Material: PVC Seal: 712.26 to 707.26ft BGS 15.00 to 20.00ft BGS Material: BENTONITE SLURRY Sand Pack: 707.26 to 695.26ft BGS 20.00 to 32.00ft BGS Material: SAND					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-234
DATE COMPLETED: 21 August 2018
DRILLING METHOD: DUAL TUBE/4-1/4" HSA
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, dry	0.60	CONCRETE					
	ML-SANDY SILT, cohesive, dark brown, dry	1.50		1GP		40		0 / 0
2	CRUSHED ROCK/ROCK FLOUR, little coarse sand and fine gravel							
4			BENTONITE GROUT					
6				2GP		38		0 / 0
8								
10			2" PVC WELL CASING	3GP		55		0 / 0
12	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, brown, wet	12.00						
14	- wet at 14.0ft BGS			4GP NEG SUDAN IV		50		
			8" BOREHOLE					1.0 / 0
16								
18	- increase in silt content at 18.5ft BGS			5GP		40		
								0.5 / 0
20								
22				6GP		30		
								1.3 / 0
24								
26				7GP		43		
			2" PVC WELL SCREEN					0.7 / 0
28			SAND PACK					
30	GW-GRAVEL, trace coarse sand, loose, fine grained, well graded, wet	30.00		8GP		45		0 / 0
32								
34				9GP		100		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-234
DATE COMPLETED: 21 August 2018
DRILLING METHOD: DUAL TUBE/4-1/4" HSA
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	END OF BOREHOLE @ 36.0ft BGS	36.00	WELL DETAILS Screened interval: 25.00 to 35.00ft BGS Length: 10ft Diameter: 2in Slot Size: 0.010 Material: PVC Seal: 2.00 to 22.00ft BGS Material: BENTONITE CHIPS Sand Pack: 22.00 to 36.00ft BGS Material: SAND					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-235
DATE COMPLETED: 3 August 2018
DRILLING METHOD: DUAL TUBE/4-1/4" HSA
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	SW-SAND (FILL-foundry type sand), loose, fine to medium grained, well graded, black, dry		CONCRETE					
2				1GP		60		
4								0.9 / 0
6			BENTONITE GROUT	2GP		50		4.1 / 0
8	- crushed concrete fragments and light green slag pieces from 7.0 to 8.0ft BGS							
10			2" PVC WELL CASING	3GP		18		
12								1.2 / 0
14				4GP		33		
16	- crushed concrete pieces and powder at 15.5ft BGS	15.70	8" BOREHOLE					3.9 / 0
18	SM-SILT/SAND (FILL), pieces of glass, plastic, paper, slightly consolidated, well graded, dark gray, moist			5GP		30		0 / 0
20	CL-SILTY CLAY (FILL), dense, cohesive, dark brown, moist	19.70 20.00						
22	CRUSHED CONCRETE PIECES/POWDER (FILL)			6GP NEG SUDAN IV		60		0 / 0
24	SW/GW-SILTY SAND/GRAVEL (NATIVE), slightly consolidated, medium to coarse sand, fine gravel, well graded	23.30						
26				7GP		58		0 / 0
28	SW-SAND, loose, fine to medium grained, little coarse grained, well graded, brown, wet	27.50						
30	- 3" coarse to fine gravel at 29.5ft BGS SW-SAND, some fine gravel, loose, medium to coarse grained, well graded, dark gray, wet	29.70	2" PVC WELL SCREEN	8GP		88		0 / 0
32	GW-GRAVEL, little coarse sand, loose, well graded, dark gray/black, wet, odor	32.00 33.00	SAND PACK	SL POS SUDAN IV				74.5 / 0
34	CL-SILTY CLAY, little medium to coarse sand and fine gravel, soft, cohesive, gray, moist			9GP		100		

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: MW-235
DATE COMPLETED: 3 August 2018
DRILLING METHOD: DUAL TUBE/4-1/4" HSA
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38				10GP		100		0 / 0
40	END OF BOREHOLE @ 40.0ft BGS	40.00	WELL DETAILS Screened interval: 29.00 to 34.00ft BGS Length: 5ft Diameter: 2in Slot Size: 0.010 Material: PVC Seal: 2.00 to 26.00ft BGS Material: BENTONITE CHIPS Sand Pack: 26.00 to 40.00ft BGS Material: SAND					
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

Appendix A.2
Temporary Monitoring Well Borehole Locations

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH01-18
DATE COMPLETED: 8 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	ML-SILT (FILL), cohesive, dark brown, dry	
4	- increase in clay and silt content at 4.0ft BGS	
8	- trace fine sand at 8.0ft BGS	8.00
	SM-SILTY SAND (FILL), trace clay, fine grained, consolidated, well graded, dark brown, moist	
12	- trace fine gravel at 11.7ft BGS	
15	SW-SAND (FILL), loose, fine to medium grained, well graded, gray, dry	15.00
15.2	SM-SILTY SAND (FILL), trace clay, fine grained, consolidated, well graded, dark brown, moist	15.20
24	CL-SILTY CLAY (NATIVE), trace fine sand, cohesive, low plasticity, tan/light brown, moist	24.00
25.9	SW-SAND, trace silt, loose, fine to medium grained, well graded, light brown, wet	25.90
27.5	- increase in coarse sand and fine gravel at 26.7ft BGS	27.50
	GW/SW-GRAVEL/SAND, trace silt, fine gravel, loose, medium to coarse sand, well graded, tan/brown, wet	
32	END OF BOREHOLE @ 32.0ft BGS	32.00

TEMP MONITORING WELL

WELL CASING

BACKFILLED WITH BENTONITE CHIPS

STAINLESS STEEL WELL SCREEN

WELL DETAILS
Screened interval:
26.00 to 30.00ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		53		0.0 / NA
2GP		23		0.0 / NA
3GP		48		0.0 / NA
4GP 13.5-14.5' NEG SUDAN IV		78		0.0 / NA
5GP		100		0.0 / NA
6GP		100		0.0 / NA
7GP 25.5-26.5' NEG SUDAN IV		88		0.0 / NA
8GP				0.0 / NA

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

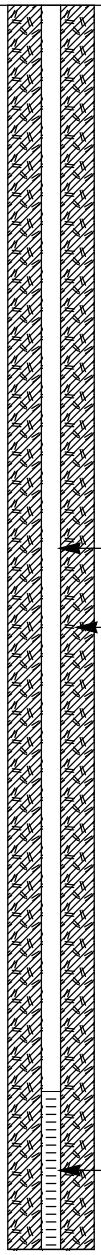
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH02-18
DATE COMPLETED: 7 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	ML-SILT (FILL), trace clay, trace fine sand, trace fine gravel, cohesive, dark brown, dry	
6	- wood fragment at 6.0ft BGS	
8	- wood fragment at 8.7ft BGS	
14		14.60
14	SW-SAND (FILL), loose, fine to medium grained, well graded, brown, dry	14.80
16	ML-SILT (FILL), little clay, cohesive, dark brown, moist	
24	CL-SILTY CLAY (NATIVE), cohesive, medium brown, moist	24.00
27	GW-GRAVEL, little medium to coarse sand, little silt and clay, fine grained, consolidated, brown/tan, wet	27.40
28	- wet at 27.7ft BGS	
32	END OF BOREHOLE @ 32.0ft BGS	32.00

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
27.50 to 31.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		65		0.0 / NA
2GP		70		0.0 / NA
3GP		35		0.0 / NA
4GP		68		0.0 / NA
5GP		93		0.0 / NA
6GP		100		0.0 / NA
7GP		65		0.0 / NA
27-28' NEG SUDAN IV				
8GP		25		0.0 / NA

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH03-18
DATE COMPLETED: 7 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	ML-SILT, trace fine to medium sand, slightly cohesive, brown, dry			1GP		60		0.0 / NA
2								
4								
6				2GP		53		0.0 / NA
8								
10				3GP		60		0.0 / NA
12	CL-CLAY, silt, cohesive	11.30						
14			WELL CASING	4GP		60		0.0 / NA
16			BACKFILLED WITH BENTONITE CHIPS					
18				5GP		80		0.0 / NA
20								
22	SM-SILTY SAND, trace clay, fine grained, trace coarse grained, consolidated, brown, wet	22.60	▽	6GP 22-23' NEG SUDAN IV		63		0.0 / NA
24	- trace fine gravel at 23.4ft BGS	24.20						
26	GW-GRAVEL, little medium to coarse sand, loose, fine grained			7GP		23		0.0 / NA
28			STAINLESS STEEL WELL SCREEN					
30		30.50						
32	END OF BOREHOLE @ 30.5ft BGS							
34								

WELL DETAILS
Screened interval:
26.50 to 30.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

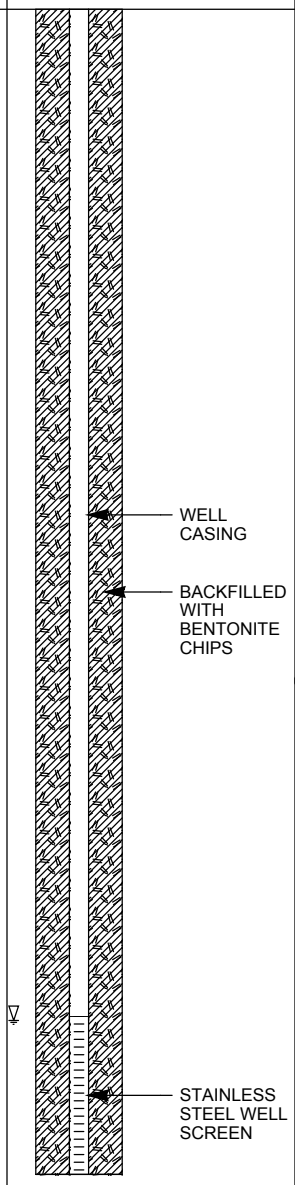
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH04-18
DATE COMPLETED: 8 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	TOPSOIL/GRASS	0.20
	ML-SILT (FILL), trace fine sand, cohesive, dark brown, dry	
2		
	- concrete pieces at 3.0ft BGS	
4		
6		
8		
10		
12		
14		14.20
	SW-SAND (FILL), loose, fine to medium grained, well graded	14.40
16	ML-SILT (FILL), trace fine sand, cohesive, dark brown, dry	
18	SM-SILTY SAND (NATIVE), fine grained, consolidated, well graded, brown, dry	18.00
20	SW-SILTY SAND, fine to medium grained, well graded, slightly consolidated, tan, moist	20.00
22		
24		
26	- wet at 25.6ft BGS	
28	GW/SW-GRAVEL/SAND, loose, fine gravel, medium to coarse sand, well graded, brown/tan, wet	27.20
30	- silty gravel from 30.5 to 31.5ft BGS	
32	END OF BOREHOLE @ 32.0ft BGS	32.00
34		

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
25.50 to 29.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		68		0.0 / 0.0
2GP		55		0.0 / 0.0
3GP		28		0.0 / 0.0
4GP		53		0.0 / 0.0
16-18' -071				
5GP		73		0.0 / 0.0
6GP		78		0.0 / 0.0
25-26' NEG SUDAN IV 7GP		73		0.0 / 0.0
8GP				0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

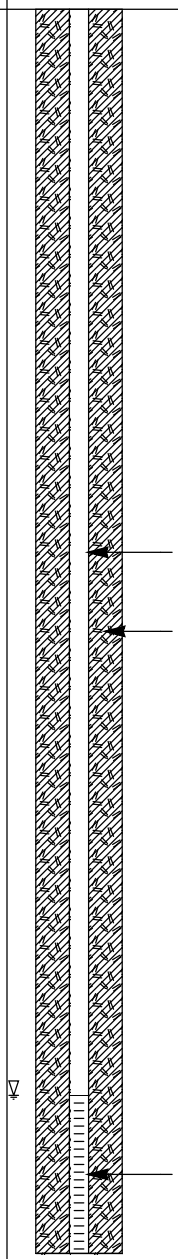
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH05-18
DATE COMPLETED: 10 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	SW-SAND (FILL), loose, fine to medium grained, well graded, black, dry	0.50
2	SW-SAND (FILL), little fine gravel, little silt, medium to coarse grained, well graded, slightly consolidated, gray, dry	
4	- 1 crushed brick at 4.0ft BGS	
6	- red clay crushed brick at 6.0ft BGS	
8	- red clay crushed brick at 7.7ft BGS - very little recovery from 8.0 to 12.0ft BGS	
10		
12		
14		
16		
18		
20	GW/SW-SILTY GRAVEL/SAND (NATIVE), loose, fine gravel, fine to coarse sand, well graded, tan, dry	20.20
22		
24		
26		
28	- wet at 27.5ft BGS	
30		
32	CL-CLAY (till), low plasticity, gray, dry END OF BOREHOLE @ 32.0ft BGS	31.50 32.00
34		

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
27.50 to 31.50ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		58		0.0 / 0.0
2GP		30		0.0 / 0.0
3GP		10		0.0 / 0.0
4GP		0		-- / --
5GP		48		0.0 / 0.0
6GP		60		0.0 / 0.0
7GP		60		0.0 / 0.0
27-28' NEG SUDAN IV				
8GP		48		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH06-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	ASPHALT	0.33						
2	SW-SAND (FILL), trace silt, trace fine gravel, loose, fine to coarse grained, well graded, dark gray/black, dry			1GP		78		0.0 / 0.0
4								
6	- loose, fine to medium grained from 5.0 to 5.7ft BGS			2GP		55		0.0 / 0.0
8								
10				3GP		58		0.0 / 0.0
12	- 1" thick iron staining at 11.7ft BGS - red clay brick fragments at 12.0ft BGS - crushed brick, white/peach at 13.0ft BGS							
14			WELL CASING	4GP		50		0.0 / 0.0
16			BACKFILLED WITH BENTONITE CHIPS					
18				5GP		40		0.0 / 0.0
20	CL-SILTY CLAY (FILL), cohesive, low to medium plasticity, black, moist	19.00						
22				6GP		63		0.0 / 0.0
24	SW-SAND (NATIVE), some fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry	24.00						
26	- silty from 25.0 to 26.0ft BGS			7GP		53		0.0 / 0.0
28	- wet at 28.0ft BGS - rock fragments at 29.0ft BGS		▽	27.5-28.5 NEG SUDAN IV				
30	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, brown, wet - iron stained silt at 31.0ft BGS	29.30	STAINLESS STEEL WELL SCREEN	8GP				0.0 / 0.0
32	END OF BOREHOLE @ 32.0ft BGS	32.00	WELL DETAILS Screened interval: 28.00 to 32.00ft BGS Length: 4ft					
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH06-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
36			Material: STAINLESS STEEL					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH07-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	TOPSOIL/GRASS	0.20
	ML-SILT (FILL), cohesive, brown, dry - increase in clay content at 1.8ft BGS	
6	SM-SILTY SAND (FILL), trace clay, fine grained, consolidated, well graded, brown, moist	6.00
20	CL-SILTY CLAY (NATIVE), trace fine sand, cohesive, black/medium brown, moist	20.80
26	SM-SILTY SAND, trace clay, fine grained, consolidated, well graded, brown, moist	26.40
		27.50
28	GC-CLAYEY/SILTY GRAVEL, little fine to coarse sand, fine grained, well graded, brown, wet	28.00
30	GW-GRAVEL, little medium to coarse sand, loose, fine to coarse grained, well graded, brown, wet	
32	END OF BOREHOLE @ 32.0ft BGS	32.00

TEMP MONITORING WELL

- WELL CASING
- BACKFILLED WITH BENTONITE CHIPS
- STAINLESS STEEL WELL SCREEN

WELL DETAILS
Screened interval:
28.00 to 32.00ft BGS
Length: 4ft

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		65		0.0 / 0.0
2GP		70		0.0 / 0.0
3GP		65		0.0 / 0.0
4GP		55		0.0 / 0.0
5GP		75		0.0 / 0.0
6GP		98		0.0 / 0.0
7GP		83		0.0 / 0.0
27-28' NEG SUDAN IV				
8GP		50		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH07-18
DATE COMPLETED: 9 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
36			Material: STAINLESS STEEL					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

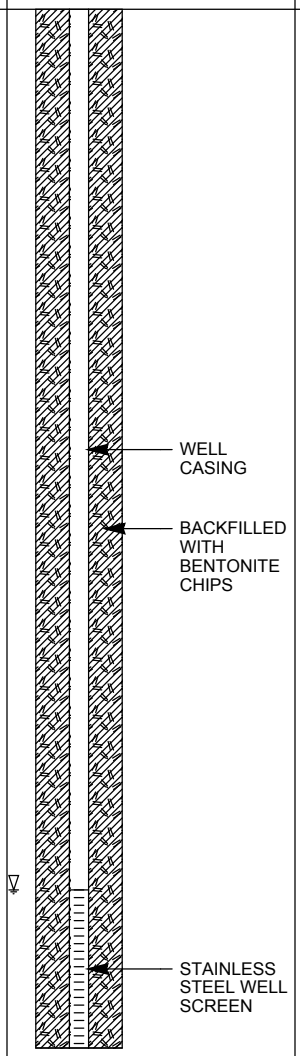
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH08-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	ASPHALT	0.25
2	SW-SAND (FILL), little fine gravel, glass, brick, slag, loose, fine to coarse grained, well graded, brown/dark gray, dry - crushed tan brick at 1.0ft BGS - silty sand, gray at 3.3ft BGS	
6	- crushed red clay brick at 6.0ft BGS	
8		8.50
10	SW/GW-SAND/GRAVEL (NATIVE), loose, fine to coarse sand, fine gravel, well graded, tan/brown, dry	
22	- wet at 22.3ft BGS	
24	- gray, wet, odor from 25.0 to 26.0ft BGS	
26	- dark brown staining at 27.0ft BGS	
28	END OF BOREHOLE @ 28.0ft BGS	28.00

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
22.30 to 26.30ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		65		0.0 / 0.0
2GP		35		0.0 / 0.0
3GP		63		0.0 / 0.0
4GP		70		0.0 / 0.0
5GP		53		0.0 / 0.0
6GP 22-23' NEG SUDAN IV		53		0.0 / 0.0
25-26' SLIGHT POS SUDAN IV 7GP		53		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH09-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), foundry type sand, slag, glass, loose, fine to medium grained, well graded, brown, dry			1GP		45		0.0 / 0.0
4	- gray/black at 3.5ft BGS - medium to coarse grained, slag at 4.5ft BGS							0.4
6				2GP		60		0.0 / 0.0
8	- slag, glass, foundry type sand, black at 6.8ft BGS							1.0
10				3GP		50		0.0 / 0.0
12	- increase in silt content at 11.0ft BGS		WELL CASING					
14	- perched water from 13.8 to 15.0ft BGS		BACKFILLED WITH BENTONITE CHIPS	4GP		75		0.0 / 0.0
16								
18	- rock fragments at 17.5ft BGS			5GP		50		0.0 / 0.0
20	- red clay brick fragments at 19.5ft BGS							
22	- wet at 21.3ft BGS		▽	21-22' NEG SUDAN IV 6GP		60		0.0 / 0.0
24			STAINLESS STEEL WELL SCREEN					
26				7GP		50		0.0 / 0.0
	SW-SAND (NATIVE), loose, fine to medium grained, well graded, dry	26.50	WELL DETAILS Screened interval: 21.50 to 25.50ft BGS Length: 4ft Material: STAINLESS STEEL					
28	END OF BOREHOLE @ 28.0ft BGS	28.00						
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH10-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	ASPHALT	0.25						
	GW/SW-SAND/GRAVEL (FILL), loose, fine gravel, fine to coarse sand, well graded			1GP		45		0.0 / 0.0
2		3.30						
	SW-SAND (FILL), trace silt, fine to coarse grained, slightly consolidated, gray, dry	4.00						
4	GM/SM-SILTY GRAVEL/SAND (FILL), consolidated, well graded, medium brown, dry			2GP		25		0.0 / 0.0
6								
8	SW/GW-SAND/GRAVEL (native), loose, fine to coarse sand, fine gravel, well graded, light brown, dry	8.00		3GP		63		0.0 / 0.0
10	- 2" seam medium to coarse sand, no gravel at 11.4ft BGS							
12				4GP		63		0.0 / 0.0
14								
16								
18				5GP		60		0.0 / 0.0
			WELL CASING	19-20 NEG SUDAN IV				
20	SW-SAND, loose, medium to coarse grained, well graded, brown, wet	19.50	▽					
			BACKFILLED WITH BENTONITE CHIPS	6GP		50		0.0 / 0.0
22								
24								
26				7GP		45		0.0 / 0.0
28								
30				8GP		60		0.0 / 0.0
32								
	CL-SILTY CLAY, cohesive, firm, low plasticity, gray, moist	32.70						
34	SW-SAND, some fine gravel, loose, medium to	34.30		9GP		100		0.0 / 0.0 1.4

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH10-18
DATE COMPLETED: 11 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	coarse grained, well graded, brown, wet							
38				10GP		70		0.0 / 0.0
		39.20						
40	SW-SAND, loose, fine to medium grained, well graded, gray/brown, wet	40.00	STAINLESS STEEL WELL SCREEN	39-41' POS SUDAN IV				5.1
42	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, black, wet, strong odor			11GP		70		0.0 / 0.0
44	END OF BOREHOLE @ 44.0ft BGS	44.00	WELL DETAILS Screened interval: 38.00 to 42.00ft BGS Length: 4ft Material: STAINLESS STEEL					
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH11-18
DATE COMPLETED: 31 July 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SILTY SAND (FILL), trace little fine gravel, slightly cohesive, medium to coarse grained, well graded dark gray/black, dry			1RS		48		0/0
4	- 6" red clay brick fragments, with slag and foundry type sand at 4.0ft BGS - crushed rock/concrete at 4.5ft BGS		TEMP WELLS ABANDONED AND BACKFILLED WITH BENTONITE GROUT					
6				2RS		33		0/0
8	ML-SANDY SILT (FILL), cohesive, dark brown, moist	7.90						
10	SW/GW-SAND/GRAVEL (NATIVE), loose, fine gravel, medium to coarse sand, well graded, tan/light brown, dry	9.70	4" BOREHOLE	3RS		50		0/0
12								
14				4RS		50		0/0
16								
18				5RS		100		0/0
20								
22				6RS		0		0/0
24			▽	NEG SUDAN IV				
26				7RS		63		0/0
28								
30				8RS		70		0/0
32	ML-CLAYEY SILT, trace fine, medium and coarse sand, cohesive, gray, dry	32.00	1/2" STAINLESS STEEL WELL SCREEN	9RS		60		0/0
34	- REFUSAL at 34.0ft BGS	34.50						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH11-18
DATE COMPLETED: 31 July 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SW-SAND, trace fine gravel, loose, fine to medium grained, well graded, brown/gray, wet			10RS		90		0/0
38				11RS		100		0/0
40				12RS		100		0/0
42			2" SCH. 40 PVC WELL SCREEN	13RS		100		0/0
44	CL-SILTY CLAY (TILL), little coarse sand to fine gravel, cohesive, gray, damp	43.50						
46	GW-CLAYEY GRAVEL, loose, fine to coarse grained, well graded, gray, wet	46.00		14RS		52		0/0
48								
50								
52				15RS		100		0/0
54								
56	END OF BOREHOLE @ 55.0ft BGS	55.00						
58								
60								
62								
64								
66								
68								

WELL DETAILS
Screened interval:
30.00 to 34.00ft BGS
Length: 4ft
Diameter: 0.5in
Slot Size: 0.010
Material: STAINLESS STEEL

Screened interval:
38.00 to 43.00ft BGS
Length: 5ft
Diameter: 2in
Slot Size: 0.010
Material: SCH 40 PVC

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH12-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	SW-SAND (FILL), little fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry							
2	SM-SILTY SAND (FILL), fine grained, slightly consolidated, well graded, dark gray, moist	1.60		1GP		58		0.0 / 0.0
4	SW-SAND (FILL), trace silt, loose, medium to coarse grained, well graded, tan/light brown, dry	4.20						
6				2GP		28		0.0 / 0.0
8	ML-SILT (FILL), cohesive, dark brown, moist	7.90						
		9.00						
10	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, little fine sand and silt, well graded, tan/light brown, dry			3GP		45		0.0 / 0.0
12								
14	SW-SAND (native), trace fine gravel, loose, medium to coarse grained, little fine sand and silt, well graded, tan/light brown, dry	14.00		4GP		53		0.0 / 0.0
16			WELL CASING					
18			BACKFILLED WITH BENTONITE CHIPS	5GP		45		0.0 / 0.0
20								
22	- wet at 22.0ft BGS		▽	6GP 21.5-22.5 NEG SUDAN IV		43		0.0 / 0.0
24								
26				7GP		48		0.0 / 0.0
28								
30								
32			STAINLESS STEEL WELL SCREEN					
34	- iron staining at 34.0ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH12-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE				
				NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
36	END OF BOREHOLE @ 36.0ft BGS	36.00	WELL DETAILS Screened interval: 30.50 to 34.50ft BGS Length: 4ft Material: STAINLESS STEEL					
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH13-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	TOPSOIL/SILT	0.25						
2	SW-SAND (FILL), trace fine gravel, loose, medium to coarse grained, well graded, tan/brown, dry			1GP		50		0.0 / 0.0
		3.10						
4	CL-CLAY (FILL), trace medium to coarse sand and silt, cohesive, dark brown, moist	4.00						
6	SW/GW-SAND/GRAVEL (native), loose, medium to coarse sand, fine gravel, well graded, tan/brown, dry			2GP		60		0.0 / 0.0
8	SM-SILTY SAND, fine to medium grained, slightly consolidated, well graded, brown, moist	8.00 8.50						
10	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, tan/brown, dry			3GP		58		0.0 / 0.0
12								
14				4GP		28		0.0 / 0.0
16			WELL CASING					
18	- wet at 18.5ft BGS		BACKFILLED WITH BENTONITE CHIPS	5GP 18-19' NEG SUDAN IV		55		0.0 / 0.0
20								
22				6GP		10		0.0 / 0.0
24								
26	- iron staining at 27.0ft BGS			7GP		30		0.0 / 0.0
28								
30				8GP				0.0 / 0.0
32	- gray at 31.8ft BGS		STAINLESS STEEL WELL SCREEN					
34				9GP				0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH13-18
DATE COMPLETED: 18 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36			WELL DETAILS Screened interval: 30.50 to 34.50ft BGS Length: 4ft Material: STAINLESS STEEL					
38				10GP				0.0 / 0.0
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14-18
DATE COMPLETED: 17 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	SW-SAND (FILL), foundry type sand, loose, fine, medium and coarse grained, well graded, gray, dry							
4	- rebar at 4.5ft BGS			1RS		55		
8	- concrete debris at 8.5ft BGS - iron rusted sand at 9.2ft BGS							
10								6.5/0
14	- rubber, metal, plastic, wood pieces at 14.0ft BGS - wet at 15.0ft BGS	15.00		2RS		60		3.6/0
16	SW-SAND (FILL), trace fine gravel, medium to coarse grained, little fine grained, well graded, dark gray, wet - little silt, fine to medium grained, slightly consolidated from 17.5 to 18.5ft BGS - pieces of slag at 19.0ft BGS - cobble at 19.5ft BGS		BACKFILLED WITH BENTONITE GROUT					
24				3RS		70		
26	SW/GW-SILTY SAND/GRAVEL (FILL), loose, medium to coarse sand, little fine gravel, well graded, dark brown/dark gray, wet - copper metal at 27.0ft BGS - thin steel metal, steel/metal debris at 28.0ft BGS - glass, wood, plastic at 28.5ft BGS	26.00						7.2/0
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14-18
DATE COMPLETED: 17 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36				4RS		95		
38	CL-CLAY (NATIVE), low plasticity, cohesive, brown/gray, dry	38.00		35-40' -171				5.7/0
40	END OF BOREHOLE @ 40.0ft BGS	40.00						
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (35-40' -171)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14A-18
DATE COMPLETED: 15 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
2	SW-SAND (FILL), loose, little fine sand, medium to coarse grained, little fine grained, well graded, dark gray/black, dry			1GP		53		0.0 / 0.0
4								
6	- concrete fragments at 5.0ft BGS			2GP		53		0.0 / 0.0
8	- no fine sand, little fine gravel, black at 8.0ft BGS							0.6
10	NO RECOVERY	10.00		3GP		48		0.0 / 0.0
12	SW-SAND (FILL), little fine gravel, medium to coarse grained, well graded, black, dry	12.00						
14				4GP		0		NA / NA
16	- wet at 15.7ft BGS		▽	15-16' NEG SUDAN IV				
18			WELL CASING	5GP		38		1.1 0.0 / 0.0
20	SW-SAND (FILL), loose, little fine sand, medium to coarse grained, little fine grained, well graded, dark gray/black, dry	18.70	BACKFILLED WITH BENTONITE CHIPS					
22	SW-SAND (FILL), little fine gravel, medium to coarse grained, well graded, black, dry	20.50		6GP		5		0.0 / 0.0
24								
26				7GP		8		0.0 / 0.0
28								
30	SM-SILTY SAND (FILL), fine grained, consolidated, well graded, black, wet	30.30		8GP		8		0.0 / 0.0
32	GW/SW-GRAVEL/SAND (NATIVE), little silt, fine gravel, medium to coarse sand, well graded, black/brown, wet	30.60						
34				9GP		55		0.0 / 0.0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH14A-18
DATE COMPLETED: 15 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38				10GP 38-40' NEG SUDAN IV		45		0.0 / 0.0
40	END OF BOREHOLE @ 40.0ft BGS	40.00	STAINLESS STEEL WELL SCREEN WELL DETAILS Screened interval: 35.50 to 39.50ft BGS Length: 4ft Material: STAINLESS STEEL					
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH15-18
DATE COMPLETED: 5 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	CONCRETE	0.50						
2	SW/GW-SAND/GRAVEL (FILL), roadbase, loose, fine, medium and coarse sand, fine gravel, well graded, tan/light brown, dry	1.70		1RS		100		3.3/0
	- 3-4" cobble at 2.0ft BGS							
4	GW-SILTY/SANDY GRAVEL (FILL), slightly consolidated, fine to medium sand, well graded, dark brown, moist	4.80						
	- 3-4" cobble at 3.0ft BGS							
6	- 3-4" cobble at 3.5ft BGS	6.00						
	- 4-5" cobble at 4.0ft BGS							
8	CL-SANDY CLAY (FILL), some fine to medium sand, trace fine gravel, cohesive, dark brown, moist			2RS		80		0.8/0
10	SM-SAND/SILT (FILL), foundry type sand, cohesive, fine to medium grained, gray							
	SW/GW-SILTY SAND/GRAVEL (NATIVE), loose, fine, medium and coarse sand, fine gravel, little coarse gravel, well graded, tan/brown, dry	11.00						
12				3RS		100		7.3/0
14			BACKFILLED WITH BENTONITE GROUT					
16								
18				4RS		100		2.5/0
20	- increase in silt content at 20.5ft BGS							6.9/0
22				5RS		100		
24	- iron staining from 24.0 to 25.0ft BGS							
26	- 4-5" cobble at 25.8ft BGS							
	- angular broken rock at 27.0ft BGS							
28	- 3-4" cobble at 27.6ft BGS	27.70	▽	6RS NEG SUDAN IV 25-30' -152/ 153		80		4.4/0
	GW-GRAVEL, little medium to coarse sand, loose, fine grained, brown, wet	29.30						
30	SM-CLAYEY SILT/SAND, trace fine gravel, cohesive, fine, medium and coarse grained, well graded, gray, wet	29.60						
		30.00						
32	SW-SAND, little silt, medium to coarse grained, well graded, gray, wet							
	END OF BOREHOLE @ 30.0ft BGS							
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH16-18
DATE COMPLETED: 4 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	CONCRETE	0.50						
2	SM/GW-SAND/SILT/GRAVEL (FILL), slightly consolidated, fine, medium and coarse sand, fine gravel, well graded, tan/light brown, dry	1.50		1RS		100		
	- medium gray/dark brown at 1.0ft BGS	3.00						
4	GC-CLAYEY GRAVEL (FILL), little fine to medium sand, cohesive, dense, fine grained, dark brown, moist	4.50						10.2/0
6	SW/GW-SILTY SAND/GRAVEL (FILL), slightly consolidated, fine, medium and coarse sand, fine gravel, well graded							
8	SW-SAND (FILL), foundry type sand, slag, loose to slightly consolidated, fine to medium grained, well graded, gray/brown, dry	8.50		2RS		70		3.4/0
10	SM-SILTY SAND (FILL), foundry type sand, slag, consolidated, well graded, gray, moist	9.70						
	CL-SILTY/SANDY CLAY (FILL), cohesive, dense, dark brown, moist	11.50						
12	SW/GW-SAND/GRAVEL (NATIVE), loose, fine, medium and coarse sand, fine gravel, well graded			3RS		100		3.1/0
14			BACKFILLED WITH BENTONITE GROUT					
16								
18				4RS		100		2.6/0
20	- 6" cobble at 19.5ft BGS							
	- 3-4" cobble at 21.0ft BGS							
22	- 4-5" cobble at 22.0ft BGS			5RS		100		2.1/0
24								
26			▽	NEG SUDAN IV				
28				6RS 25-30 -151		100		1.8/0
30	END OF BOREHOLE @ 30.0ft BGS	30.00						
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH18-19
DATE COMPLETED: 14 January 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	TOPSOIL	0.17						
	ML-SILT, trace clay, cohesive, dark brown, moist	1.08						
2	SW/GW-SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, well graded, dry			1GP		42		0 / 0
4								
6				2GP		54		0 / 0
8			WELL CASING					
10			BACKFILLED WITH BENTONITE CHIPS	3GP		58		0 / 0
12								
14	- wet at 14.5ft BGS			4GP 14-15' NEG SUDAN IV		50		0 / 0
16			STAINLESS STEEL WELL SCREEN	14.5-18.5				
18				5GP		54		0 / 0
20	END OF BOREHOLE @ 20.0ft BGS	20.00						
22			WELL DETAILS Screened interval: 14.50 to 18.50ft BGS Length: 4ft Material: STAINLESS STEEL					
24								
26								
28								
30								
32								
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

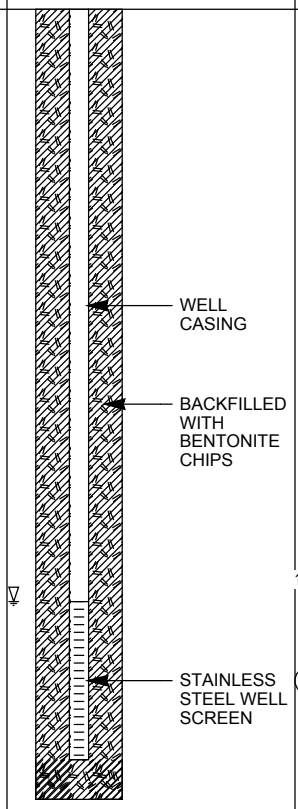
STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH19-19
DATE COMPLETED: 14 January 2019
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS
0	ML-SILT, trace clay, cohesive, dark brown, moist	0.75
2	SW/GW-SAND/GRAVEL, loose, fine to coarse sand, fine gravel, well graded, tan/brown, dry	
10	SW-SAND, little fine gravel, fine, medium and coarse grained, tan/brown, dry	10.00
14	GW-GRAVEL, some medium to coarse sand, trace silt, loose, fine grained, well graded - wet at 15.0ft BGS	13.70
20	END OF BOREHOLE @ 20.0ft BGS	20.00

TEMP MONITORING WELL



WELL DETAILS
Screened interval:
15.00 to 19.00ft BGS
Length: 4ft
Material: STAINLESS STEEL

SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
1GP		71		0 / 0
2GP		60		0 / 0
3GP		56		0 / 0
4GP 14.5-15.5' NEG SUDAN IV		52		0 / 0
15-19'				
5GP		60		0 / 0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS (oval)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: BH20-18
DATE COMPLETED: 14 May 2018
DRILLING METHOD: GEOPROBE
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	TEMP MONITORING WELL	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	SW-SAND (FILL), loose, fine, medium and coarse grained, well graded, black, dry							
2				1GP		63		0.0 / 0.0
4								
6	- increase in silt content at 6.0ft BGS			2GP		50		0.0 / 0.0
8								
10				3GP		40		0.0 / 0.0
12	- silty layers, white/iron stained/black from 11.0 to 12.0ft BGS							
14			WELL CASING	4GP		0		NA / NA
16			BACKFILLED WITH BENTONITE CHIPS					
18				5GP		15		0.0 / 0.0
20								
22				6GP		30		0.0 / 0.0
24								
26				7GP		30		0.0 / 0.0
28	GW/SW-GRAVEL/SAND (NATIVE), trace silt, loose, fine gravel, medium to coarse sand, trace fine sand, well graded, tan/brown, wet	27.30 ▽		27-28' NEG SUDAN IV				
30			STAINLESS STEEL WELL SCREEN	8GP		35		0.0 / 0.0
32	END OF BOREHOLE @ 32.0ft BGS	32.00	WELL DETAILS Screened interval: 27.30 to 31.30ft BGS Length: 4ft Material: STAINLESS STEEL					
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

Appendix A.3
Vertical Aquifer Sampling Locations

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-15B
DATE COMPLETED: 15 December 2017
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	NORTHING: 633524.93 EASTING: 1485526.07 GROUND SURFACE	731.17						
	SEE STRATIGRAPHY FROM VAS-15 (0.0 TO 100.0ft BGS)		ASPHALT SAND					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-15B
DATE COMPLETED: 15 December 2017
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38								
40								
42								
44								
46								
48								
50								
52								
54								
56								
58								
60								
62								
64								
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-15B
DATE COMPLETED: 15 December 2017
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72								
74								
76			BACKFILLED WITH BENTONITE GROUT					
78								
80								
82								
84								
86								
88								
90								
92								
94								
96								
98								
100	SW/GW-SAND/GRAVEL, with cobble, dense, medium to coarse grained, well graded, brown/gray, wet	631.17						0
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-15B
DATE COMPLETED: 15 December 2017
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				1RS-001		100		
108								0
110								
112								0
114				2RS-002		100		
116								
118								0
120								
122								0
124	GW-GRAVEL, with sand, with cobble, dense, medium to coarse grained, well graded, gray, wet	607.17		3RS-003		100		
126								
128								0
130								
132								0
134				4RS-004		100		
136								
138								0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-15B
DATE COMPLETED: 15 December 2017
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142								0
144								
146	SP-SAND, some gravel, trace cobble, compact, fine grained, poorly graded, gray, wet	586.17		5RS-005		100		
148								0
150	END OF BOREHOLE @ 150.0ft BGS	581.17						
152	Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (5RS-005)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-22B
DATE COMPLETED: 2 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	GP-GRAVEL (FILL), little coarse sand, loose, fine grained, well graded, dark brown, moist	1.00					
2	GM-SANDY/SILTY GRAVEL (FILL), slightly consolidated, fine to coarse grained, well graded, dark gray/dark brown, moist						
4			1RS		60		
6							
8							2.1/0
10							
12	CL-SILTY CLAY (FILL), some medium to coarse sand, little fine gravel, cohesive, gray, moist - 4-5" cobble at 13.2ft BGS	11.00					
14	GM-SANDY/SILTY GRAVEL (FILL), slightly consolidated, fine to coarse grained, well graded, dark gray/dark brown, moist	14.00	2RS		95		
16							
18	SW-SILTY SAND (FILL), trace fine gravel, slightly consolidated, medium to coarse grained, little fine grained, well graded, gray, moist	17.30					8.3/0
20							
22							
24	CL-SANDY/SILTY CLAY (FILL), some medium to coarse sand, cohesive, dark brown, moist	23.00					8.3/0
26	- broken concrete fragments/powder at 26.3ft BGS	26.00	3RS		70		
28	SM-SILT/SAND (FILL), trace fine gravel, slightly consolidated, fine to medium grained, well graded, tan/brown, dry	28.20					
30	CL-CLAY (TILL), trace coarse sand and fine gravel, cohesive, firm, gray, moist	30.00	NEG SUDAN IV				
32	GW-SILTY GRAVEL (NATIVE), little to some medium to coarse sand, loose, fine grained, well graded, brown, wet	31.30					
34	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, brown, wet	32.00					
	GW-SILTY GRAVEL, little to some medium to coarse sand, loose, fine grained, well graded,						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-22B
DATE COMPLETED: 2 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	brown, wet			4RS		100		
38	CL-CLAY, trace coarse sand/fine gravel, cohesive, low plasticity, gray	37.50						13.8/0
40								
42								
44	SW-SAND, some silt, loose, medium to coarse grained, well graded	44.00		5RS		100		
46								
48	SM-SILT/SAND, slightly consolidated, fine, medium and coarse grained, gray, wet	48.00						
		49.00						
50	GM-CLAYEY/SILTY GRAVEL, slightly consolidated, fine grained, gray, moist	50.00						5.6/0
52	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet							
54				6RS		100		
56								
58	CL-CLAY, trace fine gravel and coarse sand, low plasticity, cohesive, gray, moist	57.30						13.9/0
60	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	60.00						
62								
64				7RS (60-70) -183		100		
66								
68	CL-CLAY, trace fine gravel and coarse sand, low plasticity, cohesive, gray, moist	68.40						3.9/0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS (oval)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-22B
DATE COMPLETED: 2 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
72	GW-GRAVEL, little to some medium to coarse sand, loose, fine grained, well graded, gray, wet	70.00						
74	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet - 3-4 cobble at 75.0ft BGS	73.70	BACKFILLED WITH BENTONITE GROUT	8RS 70-80' -184		100		
76	GW/SW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	75.60						
78	- increase in silt content at 79.0ft BGS							0.8/0
80								
82								
84	- cobble at 84.0ft BGS							
86	GW-GRAVEL, little medium to coarse sand, little silt, loose, fine grained, well graded, gray, wet	84.50		9RS 80-90' -185		85		
	SW-SAND, little fine gravel, medium to coarse grained, well graded, gray, wet	86.00						3.5/0
88	GW/SW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	87.00						
90	- 4-5" cobble at 90.0ft BGS							
92								
94				10RS 90-100' -186/ 187		100		
96								
98								1.4/0
100								
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-22B
DATE COMPLETED: 2 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				11RS 100-110' -188		95		0.6/0
108								
		109.00						
110	SW-SAND, trace fine gravel, loose, fine to coarse grained, well graded, gray, wet	110.00						
	GW/SW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet							
112								
114								1.3/0
				12RS 110-120' -189		80		
116								
		117.00						
118	SW-SAND, trace fine gravel, loose, fine to coarse grained, well graded, gray, wet							
120								
122								
124								1.1/0
				13RS 120-130' -191		100		
126								
128								
130								
132								
134								
				14RS 130-140' -192		85		0/0
136	- 3-4" cobble at 137.0ft BGS							
138	- 3-4" cobble at 139.3ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-22B
DATE COMPLETED: 2 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142								
144								
	CL-CLAY, cohesive, dense, low to medium plasticity, gray, moist	144.50		15RS 140-150 -0193		80		
		145.50						
146	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet							
148								1.5/0
150	END OF BOREHOLE @ 150.0ft BGS	150.00						
152								
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-31
DATE COMPLETED: 24 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

NORTHING: 634676.05
EASTING: 1485298.05

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GROUND SURFACE	737.47					
0	GRASS	737.14					
	TOPSOIL	736.47					
2	SM-SILTY SAND (FILL), trace gravel, compact, fine grained, poorly graded, brown/black, moist						0
4							
	- with glass fragments, black, iron staining at 5.5ft BGS		1RS		80		
6							
8							0
	- no gravel, no glass fragments, no iron staining, dark gray at 9.0ft BGS						
10							
12							0
14			2RS		100		
16							
18							0.3
	SM-SILTY SAND, trace clay, trace gravel, compact, fine grained, poorly graded, slightly cemented, brown, moist	719.47					
20							
	ML-SILT, trace clay, trace shells, compact, brown, moist	716.47					
22							0
24							
	- with gravel, trace clay, slightly cemented, brown at 25.0ft BGS		3RS		100		
26							
28							0
30							
32							0
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-31
DATE COMPLETED: 24 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SW/GW-SAND/GRAVEL, with fine sand, with cobble and well rounded river rock, dense, medium to coarse grained, well graded, brown, wet	701.47	▽	4RS		100		
38				-ve				0
40								
42				5RS -044		100		0
44	- with silt at 45.0ft BGS							
46								
48				6RS -045		100		0
50			BACKFILLED WITH BENTONITE GROUT					
52								0
54								
56				7RS -046		100		
58								0
60	GP-GRAVEL, with sand, with river rock and cobble, dense, coarse grained, poorly graded, brown, wet	677.47						
62								0
64								
66				8RS -047		100		
68								0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-31
DATE COMPLETED: 24 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72								0
74	SP-SAND, loose, fine grained, well graded, gray, wet	664.47		9RS-048		100		
76								
78	SM-SILTY SAND, some well graded gravel, dense, fine grained, gray, wet	660.47						0
80	SM/GW-SILTY SAND/GRAVEL, with cobble, dense, fine sand, well graded gravel, gray, wet	657.47						
82								0
84				10RS-049		100		
86								
88								0
90								
92								0
94				11RS-050		100		
96								
98								0
100	END OF BOREHOLE @ 100.0ft BGS	637.47						
102	Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-32
DATE COMPLETED: 9 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

NORTHING: 634634.02
EASTING: 1485470.84

GROUND SURFACE 737.67

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	ASPHALT	737.00					
	CONCRETE PAD	736.17					
2	SW/GW-SAND/GRAVEL (FILL), with nails, brick, asphalt, dense, fine to coarse grained, well graded, black, moist	734.67	1RS		100		0.9
	CONCRETE	734.17					
4	SW/GW-SAND/GRAVEL (FILL), dense, fine to coarse grained, well graded, black, moist						
6		730.67					
8	SP-SAND (FILL), compact, fine grained, poorly graded, black, moist, odor						17.9
10			2RS		100		
12							21.1
14							
16	- wood fragments at 17.0ft BGS						
18	SW/GW-SAND/GRAVEL (FILL), pieces of slag, dense, medium to coarse grained, well graded, black, moist	719.67					1.7
20			3RS		60		
22							2.9
24							
26							
28	SW/GW-SAND/GRAVEL (NATIVE), with river rock and cobble, dense, medium to coarse grained, well graded, beige, moist	710.67					0.2
30			4RS		100		
32	- well rounded cobble, wet at 33.0ft BGS						0
34			-ve				0

BOREHOLE: ASPHALT

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-32
DATE COMPLETED: 9 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38				5RS		100		0
40								
42				6RS -023		100		0
44								
46								
48				7RS -025		100		0
50			BACKFILLED WITH BENTONITE GROUT					
52								0
54								
56				8RS -026		100		
58	SW-SAND, with cobble, some coarse gravel, dense, medium to coarse grained, well graded, brown, wet	679.67						0
60								
62								0
64								
66				9RS -027		100		
68								0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-32
DATE COMPLETED: 9 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72								0
74				10RS-028		100		
76								
78	CL-SILTY CLAY (TILL), with gravel, trace to with fine sand, gray, very moist to wet	660.67						0
80	SW/GW-SAND/GRAVEL, with cobble, dense, medium to coarse grained, well graded, gray, wet	657.67						
82								0
84				11RS-029		100		
86								
88	GW-GRAVEL, with cobble and river rock, with coarse sand, dense, medium to coarse grained, well graded, gray, wet	650.67						0
90								
92								0
94				12RS-030		100		
96								
98								0
100	END OF BOREHOLE @ 100.0ft BGS	637.67						
102	Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-33
DATE COMPLETED: 17 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

NORTHING: 633684.47
EASTING: 1485449.46
GROUND SURFACE 733.27

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	ASPHALT	733.10	ASPHALT					
2	SW/GW-SAND/GRAVEL (FILL), with silt, trace clay, with pieces of tin, glass and cobble, compact, fine to medium grained, well graded, dark brown/dark gray, moist			1RS -ve		100		0
4								
6	- pieces of concrete, cobble, brown from 5.0 to 8.0ft BGS							
8				-ve				0
10				2RS		100		
12				-ve				0
14								
16								
18				-ve				0
20				3RS		100		
22								7.2
24	SW/GW-SAND/GRAVEL, with cobble, dense, medium to coarse grained, well graded, gray, very moist to wet, faint odor	709.27	▽	+ve				
26	- brown, wet, no odor at 25.0ft BGS							
28				4RS -031 -ve		100		0
30	SW-SAND, with gravel, trace cobble, dense, medium to coarse grained, well graded, brown, wet	703.27						
32				5RS -032/ 033 -ve		100		0.3
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-33
DATE COMPLETED: 17 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SM-SILTY SAND, some gravel, trace clay, dense, medium grained, poorly graded, brown, wet	698.27						
38				6RS-034-ve		100		0
40	SW/GW-SAND/GRAVEL, with cobble and river rock, dense, medium to coarse grained, brown, wet	693.27						
42				7RS-035-ve		100		0.2
44								
46								
48				8RS-ve		100		0
50			BACKFILLED WITH BENTONITE GROUT					
52								0
54								
56				9RS-037-ve		100		
58	CL-SILTY CLAY (TILL), with gravel, trace fine sand, hard, low plasticity, gray, very moist	676.27						0
	SW/GW-SAND/GRAVEL, with fines and cobble, dense, medium to coarse grained, well graded, gray, wet	674.97						
60								
62								0
64								
66				10RS-038-ve		100		
68								0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-33
DATE COMPLETED: 17 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72								0
74								
76				11RS -039/ 040 -ve		100		
78	SM-SILTY SAND (TILL), with clay, with gravel, with cobble, dense, fine grained, poorly graded, brown, very moist to wet	655.77						0
		654.27						
80	GC-CLAYEY GRAVEL, with cobble, some silt and silty sand, dense, coarse grained, brown/gray, wet							
82				-ve				0
84								
86				12RS -041		100		
88								0
90								
92	SW/GW-SAND/GRAVEL, with cobble, some silty sand, dense, medium to coarse grained, well graded, brown, wet	642.27		-ve				0
94								
96				13RS -042		100		
98								0
100	END OF BOREHOLE @ 100.0ft BGS	633.27						
102	Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-34
DATE COMPLETED: 23 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.25						
2	SM-SILT/SAND (FILL), foundry type sand, trace clay, little fine, medium and coarse sand, little fine gravel, slightly cohesive, dark brown, moist	2.00						
		2.80						
4	SW-SAND, trace silt, fine to medium grained, trace coarse grained, consolidated, gray, moist	3.80						
	GC-CLAYEY GRAVEL, fine to coarse gravel, consolidated, well graded			1RS		70		
6	SW-GRAVELLY SAND, with fine to coarse gravel, loose, medium to coarse grained, tan/light brown, dry							
8								9
10								
12								
14				2RS		70		0
16								
18								
20								
22								
24				3RS		30		0
26								
28								
30	- wet at 30.0ft BGS	30.00	▽					
	SW-SAND, loose, fine to medium grained, well graded, brown, wet							
32	SW/GW-SAND/GRAVEL	32.20						
34		34.70						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-34
DATE COMPLETED: 23 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SM-SILT/SAND, fine to medium grained, slightly cohesive, well graded, brown, wet	36.00		4RS -078/ 079		100		
	CL-CLAY, little coarse sand and fine gravel, cohesive, gray, moist	37.50						
38	GM-SILTY GRAVEL, little medium to coarse sand, fine grained, slightly consolidated, well graded, gray, wet							4.1
40	GW/SW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, brown, wet	40.00						
42	SW-SAND, little fine gravel, little silt, fine to medium grained, little coarse grained, slightly consolidated, well graded, gray, wet	42.00		5RS -080		100		0
44	ML-SANDY SILT, fine grained, slightly consolidated, gray, moist	44.00 44.50						
	GM-SILTY GRAVEL, little medium to coarse sand, fine grained, slightly consolidated, well graded, gray, wet	45.00 46.00						
46	SW-SAND, trace silt, loose, medium to coarse grained, little fine grained, well graded, gray, wet			6RS -081		100		0
48	GW/SW-GRAVEL/SAND, trace silt, loose, fine to coarse gravel, fine, medium and coarse sand, well graded, gray, wet							
50								
52								
54				7RS -082		100		0
56								
58								
60								
62								
	CL-CLAY/SILT, trace fine gravel, trace coarse sand, cohesive, low plasticity, gray, moist	63.10 63.50						
64	GW/SW-GRAVEL/SAND, trace silt, loose, fine to coarse gravel, fine, medium and coarse sand, well graded, gray, wet			8RS -083		100		
66								
	SW-SAND, trace silt, little fine gravel, loose, medium to coarse grained, well graded, gray, wet	67.50						
68	GM-SILTY GRAVEL, some coarse sand, little	69.30						2.1

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-34
DATE COMPLETED: 23 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	medium to coarse sand, fine grained, slightly consolidated, well graded, gray, wet	70.00						
72	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, gray, wet - cobble at 73.5ft BGS							
74	GW/SW-GRAVEL/SAND, loose, fine gravel, medium to coarse sand, well graded, gray, wet	74.00	BACKFILLED WITH BENTONITE GROUT	9RS-084		100		2.2
76	- increase in silt content at 75.7ft BGS							
78	- cobble at 78.0ft BGS							
	- cobble, increase in silt content at 79.0ft BGS							
80								
82								
84				10RS-085		100		
86								
88								0.5
90								
92	- cobble at 91.5ft BGS							1.2
	- cobble, blinded by boulder at 93.0ft BGS							
94				11RS-086		100		
96								
98								
100								
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-34
DATE COMPLETED: 23 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				12RS -087/ 088 -089		30		0
108								
110								
112								
114				13RS -090		100		0
116								
118								
120								
122	SW-SAND, few fine gravel, loose, medium to coarse grained, well graded, gray, wet	121.00						
124	SW/GW-SAND/GRAVEL, trace silt, loose, medium to coarse sand, fine gravel, well graded, gray, wet	123.50		14RS -091		100		0
126								
128	- cobble at 128.5ft BGS							
130								
132								
134				15RS -092		100		0
136								
138								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-34
DATE COMPLETED: 23 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142	- cobble at 141.5ft BGS - cobble at 142.0ft BGS							
144				16RS-093		100		0
146								
148								
	SW-SAND, loose, fine to medium grained, well graded, gray, wet	148.50 149.00						
150	CL-CLAY, trace silt, cohesive, low plasticity, gray, moist	149.50 150.00						
152	SM-SILTY SAND, fine to medium grained, slightly cohesive, gray, wet END OF BOREHOLE @ 150.0ft BGS Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS (oval)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-35
DATE COMPLETED: 4 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

NORTHING: 633187.11
EASTING: 1485494.25

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	GROUND SURFACE	730.57					
0	SW/GW-SAND/GRAVEL (FILL), with silt, compact, fine to coarse grained, well graded, brown, moist		1RS		100		0
2							
4							
6							
8							0
10			2RS		60		
12	ML-SILT (FILL), with clay, with red and yellow brick, some gravel, compact, dark brown, very moist	719.57					0
14							
16							
18	- brick fragments, piece of crushed tin can at 17.0ft BGS						0
20			3RS		80		
22							0
24	GW-GRAVEL, with river stone, trace sand, dense, medium to coarse grained, well graded, brown/gray, wet	707.57	-ve -006 -ve				
26							
28	SP-SAND, compact, medium grained, poorly graded, brown, wet	702.57	4RS -007 -ve		100		0
30	CL-SILTY CLAY (TILL), with gravel, trace fine sand, hard, low plasticity, gray, moist	700.57					
32			5RS		100		0
34							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-35
DATE COMPLETED: 4 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SW/GW-SAND/GRAVEL, with cobble, dense, medium to coarse grained, well graded, brown/gray, wet	695.57						
38				6RS -008		100		0
40								
42				7RS -009		100		0
44								
46								
48				8RS -010/ 011		100		0
50								
52	- strong odor at 52.0ft BGS							678
54								
56				9RS -012 +ve		100		
58				-ve				1125
60	- no odor at 60.0ft BGS							
62								11.4
64								
66				10RS -013		80		
68								0.9

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-35
DATE COMPLETED: 4 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72								2.8
74			BACKFILLED WITH BENTONITE GROUT	11RS-014		50		
76								
78								0
80	GW-GRAVEL, with sand, with well rounded river stone, dense, medium to coarse grained, well graded, gray, wet	650.57						
82								2.3
84				12RS-015		100		
86								
88								4.1
90								
92								1.5
94		635.57		13RS-016		100		
96	SW/GW-SAND/GRAVEL, dense, medium to coarse grained, well graded, gray, wet							
98								1.5
100								
102								0
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-35
DATE COMPLETED: 4 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				14RS -017		100		
108								0
110								
112								0
114				15RS -018		100		
116								
118	SW-SAND, some gravel, compact, fine to coarse grained, well graded, gray/brown, wet	612.57						0
120								
122								0
124				16RS -019		100		
126								
128								0
130	SW/GW-SAND/GRAVEL, trace cobble, dense, medium to coarse grained, well graded, brown/gray, wet	600.57						
132								0
134				17RS -020/ 021		80		
136								
138								0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-35
DATE COMPLETED: 4 January 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	ELEV. ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142								0
144				18RS-022		100		
146	GW-GRAVEL, some sand, trace cobble, dense, medium to coarse grained, well graded, gray, wet	584.57						0
148								
150	END OF BOREHOLE @ 150.0ft BGS	580.57						
152	Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-36
DATE COMPLETED: 4 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	TOPSOIL/GRASS	0.50						
2	SW-SILTY SAND (FILL), trace fine gravel, loose, fine, medium and coarse grained, well graded, dark brown, dry			1RS		100		
4	SM-SILT/SAND (FILL), slightly cohesive, fine to medium grained, well graded, orange/brown, moist	3.70 4.10 5.00						0.8/0
6	SW/GW-SAND/GRAVEL (FILL), loose, fine, medium and coarse sand, fine gravel, well graded, light brown/orange/brown, dry	5.50		2RS		100		
8	SM-SILT/SAND (FILL), slightly cohesive, fine to medium grained, well graded, orange/brown, moist							
10	GW-GRAVEL (NATIVE), little to some medium to coarse sand, loose, fine to coarse grained, well graded, tan/brown, dry							6.6/0
12				3RS		100		
14								7.5/0
16	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, dry	15.00						
18				4RS		100		0/0
20	- wet at 20.7ft BGS		▽	NEG SUDAN IV				
22	- little coarse gravel at 21.0ft BGS			5RS 20-25' -194		100		1.2/0
24								
26	GW-GRAVEL, little medium to coarse sand, loose, well graded, wet	25.00						
28	SM-SILT/SAND, slightly consolidated, fine, medium and coarse grained, well graded, brown, wet - cobble at 27.3ft BGS	26.60 27.50 28.00		6RS 25-30' -195		100		0.4/0
30	ML-SANDY SILT, little clay, trace fine gravel and medium to coarse sand, cohesive, gray - 6" cobble at 28.0ft BGS							
32	SW-SAND, loose, medium to coarse grained, well graded	31.00		7RS 30-35' -196		100		0.8/0
34	GW-GRAVEL, little medium to coarse sand, loose, fine grained, trace coarse grained, well graded, brown, wet							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-36
DATE COMPLETED: 4 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
36								
38				8RS 35-40' -197		100		0.5/0
40	SW/GW-SAND/GRAVEL, some silt, loose, medium to coarse sand, fine gravel, well graded, brown, wet	40.00						
42	- 3.8" cobble at 43.0ft BGS			9RS 40-45' -199		100		0.6/0
44	- 1' very silty at 45.0ft BGS							
46								
48				10RS 45-50' -200		100		0.8/0
50								
52								
54	- 1-2" silty sand, cohesive at 53.7ft BGS			11RS 50-60' -201		92		0.6/0
56								1.6/0
58								
60	- very silty at 60.0ft BGS							
62								
64								
66				12RS 60-70' -202/ 203		100		
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-36
DATE COMPLETED: 4 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72	- 1' very silty at 72.3ft BGS							
	SW-SAND, loose, fine to medium grained, well graded, gray, wet	73.40	BACKFILLED WITH BENTONITE GROUT	13RS 70-80' -204		100		
74								
76								
78								1.4/0
	SW/GW-SILTY SAND/GRAVEL, loose, fine, medium and coarse sand, fine gravel, well graded, gray, wet	79.50						
80								
82	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet	82.50						
	- 5-6" cobble at 84.5ft BGS			14RS 80-90' -205		100		1.5/0
84								
86								
88	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	88.00						
90								
92	- some coarse gravel at 91.5ft BGS							
94	- little silty sand, consolidated at 94.0ft BGS							
	SM-SILTY SAND, trace fine gravel, consolidated, fine, medium and coarse grained, well graded, gray, moist	94.50		15RS 90-100' -206		100		
96	- fine gravel, some medium to coarse grained at 96.3ft BGS							
	- cobble at 97.0ft BGS	97.10						
98	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, trace coarse gravel, well graded, gray, wet							5.2/0
100	- 2-3" silty/clay seam, trace medium to coarse sand and fine gravel at 99.0ft BGS	100.00						
	NO RECOVERY							
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-36
DATE COMPLETED: 4 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				16RS 100-110' -207		40		NR/NR
108								
110	GW/SW-GRAVEL/SAND, loose, fine gravel, medium to coarse sand, well graded, gray, wet	110.00						
112								
114								
		115.00		17RS 110-120' -208/ 209		80		
116	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet							
		116.70						
118	GW/SW-GRAVEL/SAND, loose, fine gravel, medium to coarse sand, well graded, gray, wet							1.5/0
120								
122								
124								
				18RS 120-130' -211		100		
126								
								0.8/0
128	CL-SILTY SANDY CLAY, trace fine gravel, little medium to coarse sand, cohesive, low plasticity, gray, moist	128.00						
130	SW-GRAVELLY SAND, some fine gravel, loose, medium to coarse grained, well graded, gray, wet	130.00						
132								
134								
				19RS 130-140' -212		85		
136								
138								0.8/0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-36
DATE COMPLETED: 4 October 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
140	SW/GW-SAND/GRAVEL, little silt, loose, medium to coarse sand, fine gravel, well graded, gray, wet	140.00						
142								2.2/0
144								
146				20RS 140-150 -213		100		
148	SM-SILT/SAND, consolidated, fine to medium grained, well graded, gray, wet	147.20						
150	END OF BOREHOLE @ 150.0ft BGS	150.00						
152								
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-37
DATE COMPLETED: 24 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	SW-SAND (FILL), trace fine gravel, loose, fine, medium and coarse grained, well graded, brown, dry - 4-5" cobble at 0.5ft BGS - 4-5" cobble at 0.9ft BGS - increase in silt and gravel content, moist at 1.5ft BGS		1RS		80		4.1/0
6	CL-SILTY CLAY (FILL), little coarse sand and fine gravel, cohesive, low plasticity, brown, moist	6.00 7.20	2RS		80		
8	GM-SILTY GRAVEL (FILL), little coarse to medium sand, consolidated, fine to coarse grained, brown, moist - concrete/cobble at 8.7ft BGS	10.00	NEG SUDAN IV				3.3/0
10	NO RECOVERY, one piece of cobble, wet, black water, odor		3RS		20		2.4/0
12							
14	SW-SILTY SAND (FILL), some fine gravel, slightly consolidated, fine, medium and coarse grained, well graded, black, wet - wood piece at 16.5ft BGS	15.00					
16			4RS NEG SUDAN IV		44		21.6/0
18							
20	SW-SILTY SAND (NATIVE), decrease in silt content, some fine gravel, slightly consolidated, fine, medium and coarse grained, well graded, black, wet	20.00					
22			5RS		50		303/0
24							
26	GW-GRAVEL, little coarse sand, loose, well graded, gray/dark gray, wet	25.00					10.3/0
28	CL-SILTY CLAY, trace coarse sand, cohesive, low plasticity, light brown, moist	28.60	6RS 25-30 -172 NEG SUDAN IV		100		
30							15.3/0
32			7RS		100		
34		34.50					

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-37
DATE COMPLETED: 24 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet	36.00						
	GW-GRAVEL, loose, fine to coarse grained, well graded, tan/brown, wet	37.00		8RS 35-40' -173		100		2.1/0
38	SW-SAND, loose, medium to coarse grained, well graded, gray, wet	38.40						
40	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	40.00						
	SW-SAND, loose, medium to coarse grained, well graded, gray, wet			9RS 40-45' -174		100		
42								
44	GW-SANDY GRAVEL, loose, fine grained, well graded, gray/brown, wet	44.00						0.7/0
46								
48				10RS 45-50' -175		50		0/0
50	- very silty at 50.5ft BGS		BACKFILLED WITH BENTONITE GROUT					
52								0.8/0
	- 1" silty sandy clay seam at 53.5ft BGS							
54								
	- fine to coarse grained at 55.0ft BGS			11RS 50-60' -176/ 177		95		
56								
58								
60								
62								
64								
				12RS 60-70' -179		100		
66								
68								
	CL-SANDY/GRAVELLY CLAY/SILT, little	69.00						2.9/0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-37
DATE COMPLETED: 24 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	medium to coarse sand and fine gravel, slightly cohesive, gray, moist	70.00						
72	GW-SANDY GRAVEL, medium to coarse sand, loose, fine grained, well graded, gray, wet							
74				13RS 70-80' -180		100		
76								
78								2.7/0
	CL-SANDY/GRAVELLY CLAY/SILT, little medium to coarse sand and fine gravel, slightly cohesive, gray, moist	79.20						
80	GW-SANDY GRAVEL, medium to coarse sand, loose, fine grained, well graded, gray, wet	80.00						
82	- 1/2" clay seam at 81.7ft BGS	82.50						2.1/0
84	- silt at 81.8ft BGS							
	SW/GW-SILTY SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	85.50		14RS 80-90' -181		100		
86	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet							
88								
90								0.5/0
92	- increase in fine gravel at 92.0ft BGS							
94	- trace coarse gravel at 95.0ft BGS			15RS 90-100' -182		100		
96								
98	- silty at 99.0ft BGS							
100	END OF BOREHOLE @ 100.0ft BGS	100.00						
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-38
DATE COMPLETED: 14 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	CL-SILTY CLAY (FILL), with gravel and fine sand, compact, hard, low plasticity, brown, moist, piece of concrete							
2								0.1
4				1RS		70		
6								
8								0
10	SM/GW-SILTY SAND/GRAVEL, dense, fine sand, well graded gravel, brown, very moist to wet, cobble	10.00						
12								0.2
14	- gray, wet at 15.0ft BGS			2RS		100		
16								
18				-066 -VS				0
20	GW-GRAVEL, with well graded sand, dense, medium to coarse grained, well graded, gray, wet, large cobble	20.00						
22				3RS -067/ 069		100		0
24								
26	SP-SAND, trace gravel, compact, medium grained, poorly graded, gray, wet	25.00						
28				4RS -069		100		0
30								
32	SW/GW-SAND/GRAVEL, compact, fine to coarse sand, fine to coarse gravel, well graded, gray, wet, cobble	32.00		5RS -070		100		0
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-38
DATE COMPLETED: 14 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36								
38				6RS-071		100		0
40								
42				7RS-072		100		0
44								
46								
48				8RS-073		100		0.3
50			BACKFILLED WITH BENTONITE GROUT					
52								0.3
54								
56	CL-SILTY CLAY, some coarse sand and fine gravel, cohesive, gray, moist - cobble at 55ft BGS	55.00		9RS-074		100		
58								
60	SW-GRAVELLY SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet - with fine gravel from 60.2 to 60.5ft BGS	60.00						0.4
62	- cobble at 62.0ft BGS	63.00						
64	SW/GW-SAND/GRAVEL, little silt, loose, fine to coarse gravel, medium coarse sand, gray, wet			10RS		100		
66	CL-SILTY CLAY, some fine gravel and coarse sand, cohesive, gray, moist	65.50						
68	- cobble at 68.0ft BGS	68.20						
	SW-GRAVELLY SAND, little silt, fine gravel, medium to coarse grained, gray, wet							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (6RS-071)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-38
DATE COMPLETED: 14 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72	- 2 clay nodule at 69.3ft BGS - cobble at 69.5ft BGS							
74				11RS-075		100		0
76								
78								
80	CL-SILTY CLAY, trace fine gravel, cohesive, medium to coarse sand, gray, moist	79.00 79.70						
	SW-GRAVELLY SAND, loose, fine gravel, medium to coarse grained, well graded, gray, wet	80.00						
82	GW-SANDY GRAVEL, loose, fine to coarse gravel, medium to coarse grained, well graded, gray, wet	82.00 83.00						
84	GW/SW-SAND/GRAVEL, little silt, loose, medium to coarse sand, little fine sand, fine gravel, well graded, gray, wet - cobble at 83.0ft BGS	85.00 86.00		12RS-076		100		0
86								
88	GW-SANDY GRAVEL, loose, fine to coarse gravel, medium to coarse grained, well graded, gray, wet							
90	SW-GRAVELLY SAND, loose, fine gravel, fine to medium grained, with coarse grained, well graded, gray, wet							
92	GW/SW-SAND/GRAVEL, little silt, loose, medium to coarse sand, little fine sand, fine gravel, well graded, gray, wet							
94				13RS-077		100		0
96								
98								
100	END OF BOREHOLE @ 100.0ft BGS	100.00						
102	Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (11RS-075, 12RS-076, 13RS-077)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-39
DATE COMPLETED: 20 February 2019
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	ML-SILT, trace clay, trace fine gravel and coarse sand, cohesive, dark brown, moist			1RS		60		0.3 / 0
4				4.5-5.5' NEG SUDAN IV				
5	GW-GRAVEL, some medium to coarse sand, loose, fine to coarse grained, well graded, brown, wet	5.00	▽					
5		5.20						
6	- 3-4' cobble at 5.1ft BGS							
8	SW-SAND, some fine gravel, loose, medium to coarse grained, well graded, gray, wet			2RS 5-10' -214		98		0.2 / 0
9	GW-GRAVEL, some medium to coarse sand, loose, fine to coarse grained, well graded, orangish brown, wet	9.00						
12	- cobble at 12.5ft BGS			3RS 10-15' -215		100		0 / 0
14	- cobble at 14.5ft BGS							
16	- cobble at 16.0ft BGS							
18	- cobble at 17.9ft BGS			4RS 15-20' -216		100		0 / 0
20	- cobble at 19.5ft BGS							
22	SW-SAND, loose, fine to medium grained, well graded, gray, wet	21.80		5RS 20-25' -217		100		0 / 0
24	- increase in silt content, little coarse sand at 23.5ft BGS							
28				6RS 25-30' -218		100		0 / 0
32								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-39
DATE COMPLETED: 20 February 2019
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SW/GW-SAND/GRAVEL, loose, fine to coarse sand, fine gravel, well graded, gray, wet	36.00		7RS 30-40' -219/ 220		100		0 / 0
38				38-39.3' NEG SUDAN IV				
	CL-CLAY, dense, cohesive, gray, moist	39.30						
40	SW/GW-SAND/GRAVEL, trace silt, loose, medium to coarse sand, fine gravel, well graded, gray, wet	40.00						
42								0.3 / 0
44								
46				8RS 40-50' -221		100		
48	- little to some coarse gravel at 48.0ft BGS							
50			BACKFILLED WITH BENTONITE GROUT					
52	CL-CLAY (TILL), trace fine to coarse gravel, dense, hard, cohesive, gray, moist	52.50						
54				9RS		100		0 / 0
56								
58								
60								
62	SW-SAND, loose, medium to coarse grained, well graded, gray, wet	62.00						
64	GW-GRAVEL, some coarse sand, loose, well graded, gray, wet	64.00		10RS 60-70' -222		100		0 / 0
66								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-39
DATE COMPLETED: 20 February 2019
DRILLING METHOD: ROTOSONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
70								
	SW-SAND, loose, medium to coarse grained, well graded, gray, wet	71.00						
72								
	GW-GRAVEL, some coarse sand, loose, fine to coarse grained, well graded, gray, wet	73.00						
74								
				11RS 70-80' -223 76-77.7' NEG SUDIAN IV		100		0 / 0
76								
78	CL-CLAY, trace fine gravel and coarse sand, dense, hard, cohesive, gray, moist	77.70						
		78.50						
	GW-GRAVEL, some coarse sand, loose, fine to coarse grained, well graded - 4" cobble at 79.5ft BGS							
80								
82								
84								
				12RS 80-90' -224		100		
86								
88								0.3 / 0
90	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	90.00						
92	- coarse gravel at 93.0ft BGS							
94	- 3" silty sand zone at 94.0ft BGS							
				13RS 90-100' -225		100		0 / 0
96	GW-GRAVEL, little medium to coarse sand, loose, fine grained, well graded, gray, wet	96.00						
98								
100	END OF BOREHOLE @ 100.0ft BGS	100.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-40
DATE COMPLETED: 14 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT	0.25						
2	SW/GW-SAND/GRAVEL (FILL), roadbase, loose, fine, medium and coarse sand, fine gravel, well graded, tan, dry	1.80		1RS		100		
	SM-SILT/SAND (FILL), fine gravel, slightly consolidated, fine to medium grained, little coarse grained, well graded, dark brown/red, moist	3.00 3.80						
4		4.70						1.5/0
6	SW-SAND (FILL), foundry type sand, slag, loose, medium to coarse grained, well graded, black, moist	5.80						
	SM-CLAYEY SILT/SAND (FILL), cohesive, fine to medium grained, well graded, dark brown/red, moist			2RS		60		
8								
10	SW-SAND (FILL), foundry type sand, slightly consolidated, fine to medium grained, well graded, gray/dark brown/red, moist							1.1/0
12	SW-SILTY SAND (FILL), loose, fine, medium and coarse grained, well graded, reddish brown, dry - slag, glass bottle, insulators at 8.3ft BGS			3RS		56		
14								
	SM-SILT/SAND (FILL), cohesive, fine to medium grained, well graded, brown/red, moist	14.50 15.50						1.1/0
16	SW-SAND (FILL), loose, medium and coarse grained, little fine grained, well graded, reddish brown, dry	16.00						
				4RS		90		
18	ML-SILT (FILL), trace fine sand, cohesive, black, moist	18.00						
20	SW/GW-SILTY SAND/GRAVEL (NATIVE), loose, medium to coarse sand, fine gravel, well graded, brown, dry							12/0
								4.4/0
22	- 3-4" cobble at 22.0ft BGS			5RS		80		
24								
26								5.2/0
				6RS		70		
28	- 3-4" angular cobble at 28.5ft BGS		▽	NEG SUDAN IV				
30								
32	- 3-4" cobble from 32.5 to 33.0ft BGS			7RS 30-35 -155		60		1.7/0
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-40
DATE COMPLETED: 14 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	GW-GRAVEL, loose, fine to coarse grained, well graded, gray/brown, wet	35.00						
38	- 1" silt/clay nodule at 38.0ft BGS			8RS 35-40' -156		100		2/0
40	SW/GW-SILTY SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, brown, dry	39.20						
42				9RS 40-45' -157		100		
44								
46	GW-GRAVEL, little coarse sand, loose, fine grained, well graded, gray, wet	45.00						6.5/0
48				10RS 45-50' -158		90		
50	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet	49.00 50.00						1.1/0
52	SW/GW-SAND/GRAVEL, trace silt, loose, medium to coarse sand, fine gravel, well graded, gray, wet - increase in silt content at 52.0ft BGS - iron staining at 52.5ft BGS							
54				11RS 50-60' -159		100		
56	CL-SILTY SANDY CLAY, little fine gravel, cohesive, brown/gray, moist	55.00						
58								
60	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, gray, wet	59.00 60.00						5.2/0
62	GW-GRAVEL, some medium to coarse sand, loose, fine grained, well graded, gray, wet							
64	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, gray, wet	63.00		12RS 60-70' -160		60		
66								
68								0.9/0

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-40
DATE COMPLETED: 14 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
72	SW/GW-SAND/GRAVEL, trace silt, loose, medium to coarse sand, fine gravel, well graded, gray, wet	70.00						6/0
	CL-CLAY (TILL), trace medium to coarse sand, trace silt, cohesive, hard, gray, moist	72.50		NEG SUDAN IV				
74								
76	SP-SAND, slightly consolidated, fine grained, poorly graded, gray, wet - with coarse sand, clay nodule at 75.5ft BGS	75.00 75.50	BACKFILLED WITH BENTONITE GROUT	13RS 70-80' -161		100		
78	SW-GRAVELLY SAND, with fine gravel, trace coarse gravel, slightly consolidated, fine, medium and coarse grained, well graded, gray, wet	78.00						
80	CL-SILTY GRAVELLY CLAY, little medium to coarse sand, fine gravel, slightly cohesive, gray, moist	80.00 81.00						
82	GW-SILTY GRAVEL, little coarse sand, loose, fine grained, well graded, gray, wet	81.70						
	CL-CLAY (TILL), trace medium to coarse sand, trace silt, cohesive, hard, gray, moist							
84	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet	84.00 84.60						
86	CL-CLAY, trace coarse sand and fine gravel, cohesive, dense, firm, gray, moist	85.40		14RS 80-90' -162/ 163		100		
	SW-SILTY SAND, slightly consolidated, fine, medium and coarse grained, well graded, gray, wet							
88	CL-CLAY (TILL), trace medium to coarse sand, trace fine gravel, cohesive, dense, firm, gray, moist	90.00						18.2/0
90	SW-SILTY SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet							2.4/0
92	CL-CLAY, little medium to coarse sand, cohesive, firm, gray, moist	92.60						
94	SW-GRAVELLY SAND, some fine gravel, loose, medium to coarse grained, well graded, gray, wet	94.00		15RS 90-100' -165		100		
96		96.70						
	CL-CLAY, little medium to coarse sand, cohesive, firm, gray, moist	97.60						
98	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet - 4-5" cobble at 99.0ft BGS - cobble at 100.0ft BGS							
100								
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-40
DATE COMPLETED: 14 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106	- very silty gravel/sand at 106.0ft BGS			16RS 100-110' -166		55		
	GW-SANDY SILTY GRAVEL, loose, fine to coarse grained, well graded, gray, wet	106.50						
108	- 3-4" cobble from 108.0 to 109.0ft BGS							1.3/0
110								
	SW/GW-SAND/GRAVEL, trace silt, loose, medium to coarse sand, fine gravel, well graded, gray, wet	111.00						
112								
114								
				17RS 110-120' -167		70		
116								1.3/0
118								
120								
122								
124	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet	124.00						
		125.00		18RS 120-130' -168		100		
126	GW-GRAVEL, some medium to coarse sand, loose, fine grained, well graded, gray, wet							
		127.50						
128	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet							
		129.00						
130	GM-SILTY GRAVEL, little, fine, medium and coarse sand, slightly consolidated, fine grained, well graded, gray, moist							1.8/0
132								
134								
				19RS 130-140' -169		80		
136	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, gray, wet	135.70						
	- 3" fine gravel seam at 137.4ft BGS							0.7/0
138	GM-SILTY GRAVEL, little fine, medium and coarse sand, consolidated, fine to coarse grained, well graded, gray, moist	138.00						
		139.00						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-40
DATE COMPLETED: 14 September 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142	SW/GW-SILTY SAND/GRAVEL, trace cobble, loose, fine, medium and coarse sand, fine to coarse gravel, well graded, gray, wet	140.00						
	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet - 3-4" cobble at 141.0ft BGS	142.00						
144	SW/GW-SILTY SAND/GRAVEL, trace cobble, loose, fine, medium and coarse sand, fine to coarse gravel, well graded, gray, wet	145.00		20RS 140-150 -170		100		
146	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet	145.70						
	SW/GW-SILTY SAND/GRAVEL, trace cobble, loose, fine, medium and coarse sand, fine to coarse gravel, well graded, gray, wet	146.80						
148	SW-SAND, trace fine gravel, loose, medium to coarse grained, well graded, gray, wet	148.50						1.4/0
150	GW-SILTY GRAVEL, little fine, medium and coarse sand, loose, fine to coarse grained, well graded, gray, wet	150.00						
152	END OF BOREHOLE @ 150.0ft BGS							
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-42
DATE COMPLETED: 14 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
	ASPHALT LAYERS	0.67						
2	SW/GW-SAND/GRAVEL (FILL), loose, medium to coarse sand/fine gravel, well graded, dark gray/dark brown, dry - tan/medium brown at 1.5ft BGS - increase in coarse gravel content at 3.0ft BGS			1RS		100		22.3/0
4								
6				2RS		69		2.5/0
8								
10	SM-SILT/SAND (FILL), little fine gravel, consolidated, fine sand, little medium to coarse sand, well graded, dark brown, dry	9.00						15.6/0
12	SW-SAND (NATIVE), little fine to coarse gravel, loose, fine to medium grained, some coarse grained, tan/off-white, dry	11.50						
14				3RS		65		
16								
18								
20								
22								
24				4RS		0		0/NR
26								
28								
30	- wet at 30.0ft BGS	30.00	▽	NEG SUDAN IV				
32	SW/GW-SAND/GRAVEL, silty, trace cobble, loose, fine, medium and coarse sand, fine to coarse gravel, brown, wet - decrease in silt content at 33.5ft BGS			5RS 30-35 -120		100		1.7/0
34	- cobble at 33.8ft BGS	34.80						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS (oval)

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-42
DATE COMPLETED: 14 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
36	CL-SILTY CLAY, fine to medium sand, slightly cohesive, gray, moist	35.00						
38	GW/SW-GRAVEL/SAND, loose, fine gravel, trace coarse gravel and coarse sand, well graded, wet - increase in silt content at 37.0ft BGS - coarse gravel at 37.7ft BGS	38.20		6RS 35-40' -121		100		1.2/0
40	SW-SAND, little silt, fine to medium grained, little coarse grained, well graded, gray/brown, wet							
42	- trace fine gravel at 42.0ft BGS - little silt, medium to coarse grained at 42.2ft BGS	43.00		7RS 40-45' -122		94		1.2/0
44	SW/GW-SAND/GRAVEL, loose, fine to coarse gravel, medium to coarse sand, well graded, brown, wet	45.00						
46	SW-SAND, loose, medium to coarse grained, brown, wet	46.60						
48	GW-GRAVEL, some medium to coarse sand, trace cobble, loose, fine to coarse grained, well graded, brown, wet			8RS 45-50' -123		100		0.6/0
50								
52								
54								
56				9RS 50-60' -124/ 125 NEG SUDAN IV		100		4/0
58	CL-CLAY, little coarse sand and fine gravel, cohesive, gray, moist	57.00						
60								
62								
64				10RS		100		
66								6.2/0
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-42
DATE COMPLETED: 14 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72								1.5/0
74			BACKFILLED WITH BENTONITE GROUT	11RS		100		
76								
78								
80								
	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet	80.50						
82	CL-SANDY CLAY, slightly consolidated, some fine, medium and coarse sand, well graded, moist	81.50						
		82.50						
84	GW-SANDY GRAVEL, little medium to coarse sand, loose, fine grained, well graded, gray, wet	83.50						
	CL-SANDY CLAY, fine, medium and coarse sand, cohesive, gray, moist	84.00		12RS 80-90' -126		100		
86								
	SW/GW-SILTY SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray, wet							
88								
90								8.4/0
92								
94				13RS 90-100' -127		100		
96								
98								
100	- sample integrity compromised because sample fell out of core barrel from 100.0 to 110.0ft BGS							4.7/0
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-42
DATE COMPLETED: 14 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				14RS 100-110' -128		80		1.9/0
108								
110								
112								
114				15RS 110-120' -130		60		
116								
118								
120								2.0/0
122								
124				16RS 120-130' -131		70		
126								2.0/0
128	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, gray, wet	127.00						
130	GW/SW-SILTY GRAVEL/SAND, fine gravel, medium to coarse sand, trace fine sand, gray, wet	128.50						
132								
134	GW-GRAVEL, fine to coarse sand, loose, well graded, gray, wet	133.00						
	SW-GRAVELLY SAND, fine gravel, loose, medium to coarse grained, well graded, gray, wet	134.00		17RS 130-140' -132		85		
136								1.4/0
138								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-42
DATE COMPLETED: 14 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142								
144								
146	- 2" clay nodule with coarse sand at 145.0ft BGS - 2-3" fine silty sand seam at 146.4ft BGS			18RS 140-150 -133		55		0/0
148								
150	GW-GRAVEL, little coarse sand, loose, fine to coarse grained, well graded, gray/off-white, wet	149.50 150.00						
	END OF BOREHOLE @ 150.0ft BGS							
152								
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-43
DATE COMPLETED: 22 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
0	CONCRETE	0.33						
2	SW/GW-SILTY SAND/GRAVEL (FILL), medium to coarse sand, fine gravel, little coarse gravel, brown/tan/off-white, dry			1RS		90		
4								3.6/0
6	SW-SAND (FILL), foundry type sand, little silt, slightly consolidated, fine to medium grained, well graded, gray, moist	5.80						3.6/0
8	- gray/brown at 7.0ft BGS - slag, pieces of glass, metal parts, fragments of metal wire, dark brown at 7.5ft BGS	8.70		2RS		90		
10	CL-GRAVELLY CLAY (NATIVE), little fine, medium and coarse sand, cohesive, fine to coarse grained, dark brown, moist	10.50						
12	GW/SW-GRAVEL/SAND, little silt, loose, fine gravel, medium to coarse sand, well graded, tan/off-white, dry			3RS		100		
14								1.4/0
16								
18	- trace iron staining at 18.0ft BGS - trace iron staining at 18.4ft BGS - increase in silt content at 19.3ft BGS			4RS		90		1/0
20	- cobble at 20.2ft BGS							
22	- 2 pieces of cobble at 22.3ft BGS			5RS		100		
24								
26				NEG SUDAN IV				6.7/0 1.5/0
28				6RS 25-30 -134/ 135		100		
30	GW-GRAVEL, little to some medium to coarse sand, loose, fine grained, well graded, brown, wet	30.00	▽					
32	- orange/brown iron staining at 33.0ft BGS - increase in coarse gravel at 33.0ft BGS			7RS 30-35 -136		100		1.5/0
34	- large cobble at 33.8ft BGS							

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-43
DATE COMPLETED: 22 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	- increase in medium to coarse sand, gray at 34.0ft BGS - with silt/cobble, iron staining at 35.6ft BGS						1.1/0
38	- sand/gravel at 37.5ft BGS - gravel/cobble at 39.0ft BGS		8RS 35-40' -137		100		
40	- sandy silt nodules at 39.8ft BGS	40.00					
42	SW-GRAVELLY SAND, fine gravel, loose, medium to coarse grained, well graded, gray, wet - 1/2" silt nodule at 41.0ft BGS	42.80	9RS 40-45' -138		100		
44	GW-SANDY GRAVEL, some medium to coarse sand, loose, fine grained, well graded, orange/brown, wet, iron staining - coarse grained at 45.0ft BGS - fine grained at 45.5ft BGS						2.1/0
46		46.00					
	ML-CLAYEY SANDY SILT, fine sand, trace fine gravel, cohesive, gray, moist	46.60					
48	SW-GRAVELLY SAND, fine gravel, loose, medium to coarse grained, well graded, brown, wet	49.00	10RS 45-50' -139		100		1.5/0
50	- clay nodules mixed with sand from 48.0 to 48.8ft BGS	50.00					
52	GW-SANDY GRAVEL, some medium to coarse sand, loose, fine grained, well graded, orange/brown, wet, iron staining SW-GRAVELLY SAND, fine gravel, trace silt, loose, medium to coarse grained, well graded, brown, wet						1.9/0
54							
			11RS 50-60' -140		85		
56	GW-SANDY GRAVEL, some medium to coarse sand, loose, fine grained, well graded, orange/brown, wet, iron staining	55.50					
58	SW-GRAVELLY SAND, fine gravel, trace silt, loose, medium to coarse grained, well graded, brown, wet	57.20 58.80					
60	CL-CLAY (TILL), trace coarse sand and fine gravel, cohesive, hard, low plasticity, gray, moist	60.00					
62	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray/brown, wet	62.50					
64	CL-SILTY CLAY (TILL), trace medium to coarse sand and fine gravel, cohesive, gray, moist	63.90 64.60					12.7/0
	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray/brown, wet	64.90	12RS 60-70' -141		100		
66	CL-SILTY CLAY (TILL), trace medium to coarse sand and fine gravel, cohesive, gray, moist						
68	SW-SILTY GRAVELLY SAND, fine gravel, loose, medium to coarse grained, well graded,						

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-43
DATE COMPLETED: 22 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
	gray/brown, wet	70.00						
	GW-GRAVEL, little coarse sand, loose, fine grained, well graded, wet							
72								
		73.60						
74	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, gray, wet		BACKFILLED WITH BENTONITE GROUT	13RS 70-80' -143		100		
76								
		78.10						
78	SM-SILTY SAND, trace clay, slightly consolidated, fine, medium and coarse grained, gray, moist	78.90						11.5/0
80	SW/GW-SAND/GRAVEL, loose, medium to coarse sand, fine gravel, well graded, gray/brown, wet							
		81.50						
82	GW-SANDY GRAVEL, trace silt, loose, fine grained, little coarse grained, well graded, gray, wet							3.6/0
84								
				14RS 80-90' -144		100		
86								
88								
90								5.6/0
92								
94				15RS 90-100' -145		60		
96								
98								
100	POOR RECOVERY, gravel, sand, well graded	100.00						
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-43
DATE COMPLETED: 22 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				16RS 100-110' -146		30		0/0
108								
110	GW-SANDY GRAVEL, trace silt, loose, fine grained, little coarse grained, well graded, gray, wet	110.00						
112								
114				17RS 110-120' -147		45		
116								
118								5.6/0
120								1.6/0
122								
124				18RS 120-130' -148		65		
126								
128								
130	SW-SAND, little fine gravel, loose, medium to coarse grained, well graded, gray, wet	130.00						
132								
134				19RS 130-140' -149		50		
136								1.3/0
138								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-43
DATE COMPLETED: 22 August 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: J. CLOSE

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142								
144				20RS 140-150 -150		45		
146								
148	GW-SANDY GRAVEL, some medium to coarse sand, loose, fine grained, well graded, gray, wet	148.00						32/0
		149.00						
150	SW-SAND, loose, fine to medium grained, well graded, gray, wet	150.00						
	END OF BOREHOLE @ 150.0ft BGS							
152								
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE
WATER FOUND ▽
CHEMICAL ANALYSIS ⬭

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-44
DATE COMPLETED: 6 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	INTERVAL	REC (%)	'N' VALUE	PID (ppm) / RAD
0	SM-SILTY SAND (FILL), with gravel, trace to little clay, compact, fine grained, poorly graded, dark gray/black, moist, brick, nails, wire, glass							
2								
4				1RS		80		0
6								
8								
10								
12								
14				2RS		80		0
16								
18	SM/GW-SILTY SAND/GRAVEL, dense, fine to medium sand, medium to coarse gravel, well graded, brown, cobble	18.00						
20								
22								
24	- wet at 24.0ft BGS			3RS		100		0
26								
28				-051 -ve				
30								
32				4RS -052		100		1.2
34								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS

OVERBURDEN LOG 038443-50-WATERLOO.GPJ CRA_CORP.GDT 15/5/19

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-44
DATE COMPLETED: 6 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
36	SM-SILTY SAND (TILL), little gravel, trace to little clay, dense, fine grained, poorly graded, gray, very moist to wet	36.00		5RS -053 -ve		100		0
38								
40								
42	SM/GW-SILTY SAND/GRAVEL, cobble, dense, fine to medium sand, well graded gravel, gray, wet	41.00		6RS -054		100		0
44								
46	SW/GW-SAND/GRAVEL, cobble, dense, fine to coarse sand, fine to coarse gravel, well graded, gray, wet	45.00		7RS -055		100		0
48								
50								
52								
54				8RS -056/ 057 -ve		100		0
56								
58	CL-SILTY CLAY (till), some gravel, with sand, hard, low plasticity, gray, very moist, cobble	57.00						
60								
62								
64	- moist at 65.0ft BGS			9RS		100		0
66								
68								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (5RS, 6RS, 7RS, 8RS)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-44
DATE COMPLETED: 6 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
72	SM/GW-SILTY SAND/GRAVEL, dense, fine to medium sand, medium to coarse gravel, well graded, gray, wet, cobble	70.00	BACKFILLED WITH BENTONITE GROUT	10RS-058		100		0
74								
76								
78								
80								
82								
84				11RS-059		100		0
86								
88								
90	SW/GW-SAND/GRAVEL, trace cobble, compact, medium to coarse sand, medium to coarse gravel, well graded, gray, wet	90.00						
92								
94				12RS-060		100		0
96								
98								
100								
102								
104								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-44
DATE COMPLETED: 6 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
106				13RS-061		100		0
108								
110	- some silty sand, little cobble at 110.0ft BGS							
112								
114				14RS-062		100		0
116								
118								
120								
122								
124				15RS-063		100		0
126								
128								
130	- large cobble, "river rock" at 130.0ft BGS							
132								
134				16RS-064		100		0
136								
138								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (oval)

STRATIGRAPHIC AND INSTRUMENTATION LOG (OVERBURDEN)

PROJECT NAME: SOUTH DAYTON DUMP AND LANDFILL SITE
PROJECT NUMBER: 038443
CLIENT: PRP GROUP
LOCATION: MORAINE, OHIO

HOLE DESIGNATION: VAS-44
DATE COMPLETED: 6 February 2018
DRILLING METHOD: SONIC
FIELD PERSONNEL: K. VANDER MEULEN

DEPTH ft BGS	STRATIGRAPHIC DESCRIPTION & REMARKS	DEPTH ft BGS	BOREHOLE	SAMPLE NUMBER	SAMPLE INTERVAL	SAMPLE REC (%)	SAMPLE 'N' VALUE	SAMPLE PID (ppm) / RAD
142	SM/GW-SILTY SAND/GRAVEL, large cobble, dense, medium to coarse sand, medium to coarse gravel, well graded, brown/gray, wet	141.00		17RS-065		100		0
144								
146								
148								
150	END OF BOREHOLE @ 150.0ft BGS	150.00						
152	Notes: -ve = Sudan IV test results negative +ve = Sudan IV test results positive							
154								
156								
158								
160								
162								
164								
166								
168								
170								
172								
174								

NOTES: MEASURING POINT ELEVATIONS MAY CHANGE; REFER TO CURRENT ELEVATION TABLE

CHEMICAL ANALYSIS (17RS-065)

Appendix B
Groundwater Sampling Records

Appendix B.1
Monitoring Well Development Records

Well Development, Purging, and Sampling Form
(Form SP-06)

PROJECT #: 038443 PROJECT NAME: SOUTH DAYTON DUMP DATE: 09/27/18

WELL ID: MW-234 FIELD PERSONNEL: S. TEDRICK, C. MCLAUGHLIN

WELL DIAMETER	2	in
WELL DEPTH	37.29	m/ft
STATIC DEPTH TO WATER	14.61	m/ft
WATER COLUMN HEIGHT	22.68	m/ft
CASING VOLUME	3.62	L/gal
MEASURING REFERENCE POINT	TOC	

Well Diameter (in)	Casing Volume (L/m)	Casing Volume (US gallon/foot)
1.5	1.14	0.09
2	2.02	1.09
4	8.11	2.09
6	18.24	3.09

PURGING AND SAMPLING EQUIPMENT

SCT

Date 9/28/18
Project No. 038443-360

DEDICATED PURGING EQUIPMENT? (YES) NO DEDICATED SAMPLING EQUIPMENT? YES NO N/A

PURGING DEVICE	✓	A - INERTIAL PUMP (WATERRA®)	B - BAILER	C - PERISTALTIC PUMP	D - SUBMERSIBLE PUMP	X - OTHER (SPECIFY)
SAMPLING DEVICE		E - BLADDER PUMP	(F - PURGE PUMP)	G - DIPPER BOTTLE	H - GAS LIFT PUMP	
PURGING MATERIAL	✓	A - POLYETHYLENE	B - TEFLON	C - PVC	D - POLYPROPYLENE	X - OTHER (SPECIFY)
SAMPLING MATERIAL		(E - STAINLESS STEEL)				
TUBING PURGING	✓	~~A - POLYETHYLENE~~	B - TEFLON	C - TYGON	D - POLYPROPYLENE	X - OTHER (SPECIFY)
TUBING SAMPLING		E - SILICONE	F - ROPE	G - COMBINATION TEFLON/POLYPROPYLENE		
FILTERING DEVICES		A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	PORE SIZE :	

DEVELOPMENT/PURGING FIELD MEASUREMENTS ARE RECORDED ON PAGE 2.

SAMPLING INFORMATION

SAMPLE DATE/TIME: N/A

WEATHER CONDITIONS AT TIME OF SAMPLING: N/A

SAMPLE ID: N/A

SAMPLE WAS FILTERED FOR (ANALYSIS): N/A

SAMPLE APPEARANCE: N/A

FIELD MEASUREMENTS

DATE	TIME	VOLUME	TEMPERATURE	CONDUCTIVITY	pH	TURBIDITY	COLOUR	ODOUR	COMMENTS
	Units:	(L) (US gal)	(°C) (°F)	~~(mS/cm)~~ (µS/cm)	-	(NTU)	-	-	-
	Stabilization:	-	±10%	±10%	±0.1 units	<5	-	-	-
9/27/18	1215	0	22.1	5422	7.48	>1000	BROWN	N/A	
	1233	1	21.7	5154	7.94	>1000		N/A	
	1239	2	21.0	5552	7.97	>1000		N/A	
	1248	3	20.2	565.8	7.98	>1000		N/A	
	1253	4	19.9	590.6	8.04	>1000		SLIGHT EARTHY	
	1259	5	19.5	598.3	7.97	>1000		SLIGHT EARTHY	
	1303	6	19.2	606.8	8.06	>1000		N/A	
	1309	7	19.0	614.4	8.00	944	LIGHT BROWN	N/A	
	1312	8	19.1	607.1	8.07	>1000	MED. BROWN	N/A	
	1314	9	19.3	589.8	8.06	>1000	MED BROWN	N/A	
	1335	10	18.5	625.6	8.08	633	LIGHT BROWN	N/A	
	1342	11	18.4	620.7	8.09	228		N/A	
	1350	12	18.3	619.1	8.08	170		N/A	
	1355	13	18.3	617.0	8.09	128			

SCT
Date 9/28/18
Project No. 038443-360

Well Development, Purging, and Sampling Form
(Form SP-06)

PROJECT #: 38443 PROJECT NAME: SOUTH DAYTON DUMP DATE: 9/28/18

WELL ID: MW-235 FIELD PERSONNEL: S. TEDRICK C. MCLAUGHLIN

WELL DIAMETER 2 in
WELL DEPTH 36.45 m/(ft)
STATIC DEPTH TO WATER 24.36 m/(ft)
WATER COLUMN HEIGHT 12.09 m/(ft)
CASING VOLUME 1.93 L/(gal)
MEASURING REFERENCE POINT TOC

Well Diameter (in)	Casing Volume (L/m)	Casing Volume (US gallon/foot)
1.5	1.14	0.09
(2)	2.02	1.09
4	8.11	2.09
6	18.24	3.09

SCT
Date 9/28/18
Project No. 038443-360

PURGING AND SAMPLING EQUIPMENT

DEDICATED PURGING EQUIPMENT? YES NO DEDICATED SAMPLING EQUIPMENT? YES NO

PURGING DEVICE	✓	A - INERTIAL PUMP (WATERRA®)	B - BAILER	C - PERISTALTIC PUMP	D - SUBMERSIBLE PUMP	X - OTHER (SPECIFY)
SAMPLING DEVICE		E - BLADDER PUMP	(F - PURGE PUMP)	G - DIPPER BOTTLE	H - GAS LIFT PUMP	
PURGING MATERIAL	✓	A - POLYETHYLENE	B - TEFLON	C - PVC	D - POLYPROPYLENE	X - OTHER (SPECIFY)
SAMPLING MATERIAL		(E - STAINLESS STEEL)				
TUBING PURGING	✓	(A - POLYETHYLENE)	B - TEFLON	C - TYGON	D - POLYPROPYLENE	X - OTHER (SPECIFY)
TUBING SAMPLING		E - SILICONE	F - ROPE	G - COMBINATION TEFLON/POLYPROPYLENE		
FILTERING DEVICES	N/A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	PORE SIZE :	

DEVELOPMENT/PURGING FIELD MEASUREMENTS ARE RECORDED ON PAGE 2.

SAMPLING INFORMATION

SAMPLE DATE/TIME: N/A
WEATHER CONDITIONS AT TIME OF SAMPLING: N/A
SAMPLE ID: N/A
SAMPLE WAS FILTERED FOR (ANALYSIS): N/A
SAMPLE APPEARANCE: N/A

Date 9/28/18

Project No. 038443-360

Well Development, Purging, and Sampling Form
(Form SP-06)

FIELD MEASUREMENTS

DATE	TIME Units: Stabilization:	VOLUME ~~(L) (US gal)~~ WELL VOLUMES	TEMPERATURE (°C) (°F) ±10%	CONDUCTIVITY (mS/cm) (µS/cm) ±10%	pH - ±0.1 units	TURBIDITY (NTU) <5	COLOUR - -	ODOUR - -	COMMENTS - -
9/28/18	0900	0	14.2	1467	8.12	925	GREY	STRONG ~~PETROL~~	PETROLEUM
	0905	1	14.8	1364	7.81	>1000	BLACK	STRONG	PETROLEUM
	0912	2	15.1	1325	7.75	>1000	BLACK	STRONG	PETROLEUM
	0918	3	15.1	1344	7.81	>1000	BLACK	STRONG	PETROLEUM
	0923	4	15.3	1289	7.57	>1000	BLACK	STRONG	PETROLEUM
	0930	5	15.5	1371	7.62	>1000	BLACK	STRONG	PETROLEUM
	0938	6	15.3	1403	7.69	>1000	BLACK	STRONG	PETROLEUM
	0947	7	15.7	1366	7.60	>1000	BLACK	STRONG	PETROLEUM
	0954	8	15.5	1396	7.56	>1000	BLACK	STRONG	PETROLEUM
	1000	9	15.7	1403	7.67	>1000	BLACK	STRONG	PETROLEUM
	1010	10	15.8	1409	7.62	>1000	BLACK	STRONG	PETROLEUM
	1021	11	15.9	1414	7.66	>1000	BLACK	STRONG	PETROLEUM
	1030	12	15.8	1406	7.65	>1000	BLACK	STRONG	PETROLEUM

Well Development, Purging, and Sampling Form
(Form SP-06)

PROJECT #: 038443 PROJECT NAME: SOUTH DAYTON DUMP DATE: 09/27/18

WELL ID: MW-217 FIELD PERSONNEL: S. TEDRICK, C. MCLAUGHLIN

WELL DIAMETER 2 in
WELL DEPTH 48.15 m/ft
STATIC DEPTH TO WATER 26.79 m/ft
WATER COLUMN HEIGHT 21.36 m/ft
CASING VOLUME 3.42 L/gal
MEASURING REFERENCE POINT TOC

Well Diameter (in)	Casing Volume (L/m)	Casing Volume (US gallon/foot)
1.5	1.14	0.09
2	2.02	1.09
4	8.11	2.09
6	18.24	3.09

SCT
Date 9/28/18
Project No. 038443-360

PURGING AND SAMPLING EQUIPMENT

DEDICATED PURGING EQUIPMENT? YES NO DEDICATED SAMPLING EQUIPMENT? YES NO

PURGING DEVICE	✓	A - INERTIAL PUMP (WATERRA®)	B - BAILER	C - PERISTALTIC PUMP	D - SUBMERSIBLE PUMP	X -
SAMPLING DEVICE		E - BLADDER PUMP	(F - PURGE PUMP)	G - DIPPER BOTTLE	H - GAS LIFT PUMP	OTHER (SPECIFY)
PURGING MATERIAL	✓	A - POLYETHYLENE	B - TEFLON	C - PVC	D - POLYPROPYLENE	X -
SAMPLING MATERIAL		(E - STAINLESS STEEL)				OTHER (SPECIFY)
TUBING PURGING	✓	(A - POLYETHYLENE)	B - TEFLON	C - TYGON	(D - POLYPROPYLENE)	X -
TUBING SAMPLING		E - SILICONE	(F - ROPE)	G - COMBINATION TEFLON/POLYPROPYLENE		OTHER (SPECIFY)
FILTERING DEVICES	N/A	A - IN-LINE DISPOSABLE	B - PRESSURE	C - VACUUM	PORE SIZE :	

DEVELOPMENT/PURGING FIELD MEASUREMENTS ARE RECORDED ON PAGE 2.

SAMPLING INFORMATION

SAMPLE DATE/TIME: N/A
WEATHER CONDITIONS AT TIME OF SAMPLING: N/A
SAMPLE ID: N/A
SAMPLE WAS FILTERED FOR (ANALYSIS): N/A
SAMPLE APPEARANCE: N/A

FIELD MEASUREMENTS

DATE	TIME Units: Stabilization:	VOLUME ~~(L)~~ ~~(US gal)~~ WELL VOLUMES	TEMPERATURE (°C) (°F) ±10%	CONDUCTIVITY (mS/cm) (µS/cm) ±10%	pH - ±0.1 units	TURBIDITY (NTU) <5	COLOUR - -	ODOUR - -	COMMENTS - -
09/27/18	INITIAL 1505	0	15.3	1355	7.82	>1000	DARK BROWN	SLIGHT	SULFUR
	1512	1	15.3	1533	7.88	71000	DARK BROWN	N/A	
	1518	2	14.7	1537	7.87	>1000	light BRN	N/A	
	1528	3	14.8	1561	7.93	194	light BRN	N/A	
	1535	4	14.7	1562	7.87	837	light tan	N/A	
	1544	5	14.7	1570	7.89	376	light tan	N/A	
	1550	6	14.6	1579	7.88	78.1	cloudy	N/A	
	1559	7	14.5	1576	7.80	40.6	CLEAR	N/A	
	1606	8	14.6	1573	7.99	25.9	CLEAR	N/A	
	1612	9	14.6	1574	7.98	17.6	CLEAR	N/A	
		10	14.6	1580	7.97	15.0	clear	N/A	

Set
Date 9/28/18
Project No. 038443.360

(52) 8/8/18

1103 SS-174

Depth	Sample ID	Time
0-6"	S-38443-080818-JC-145	1110
6-24"	S-38443-080818-JC-146	1120
6-24"	S-38443-080818-JC-147 (dupe of -146)	1125

1135 SS-175

DEPTH	SAMPLE ID	TIME
0-6"	S-38443-080818-JC-148	1135
6-24"	S-38443-080818-JC-149	1145
6-24"	S-38443-080818-JC-149 MS	1145
6-24"	S-38443-080818-JC-149 MSD	1145

bench

Pour rinse blankoff SS bowl

RB-38443-080818-JC-150 (1345)

TB-38443-080819-005

1500 Offsite

8/9/18 (53)

38443-360

Personnel: J. Close / C. McLaughlin

Weather: sunny 70's-80's

Activities: well development.

0830 Onsite

0830 TGSM

0855 set up @ MW-230

0945 start development @ MW-230 using air lifting pump.

DTB: 38.17

SWL: 27.98

10.19 ⇒ 1.6 gals/vol

Vol	pH	Cond	Temp
1	6.22	1.255 mS	20.5°C
2	7.17	1.300	21.9°C
3	7.42	1.296	21.8°C
4	7.49	1.310	20.5°C
5	7.43	1.319	20.7°C
6	7.44	1.268	18.7°C
7	7.46	1.265	20.3°C
8	7.35	1.259	18.9°C
9	7.38	1.245	18.0°C
10	7.31	1.275	18.5°C

(54) 8/9/18

38443-360

0930 Calibration of YSI Pro 1030
(Premier # 5384)

	STD	RDG
pH (#8011575)	7.0	7.0
(#7082493)	4.0	4.0
Cond (#8032173)	1.413 mS/cm	1.413 mS/cm

1230 Purged 16 gallons from MW-230

1245 lunch

1315 Decon pump

1325 Setup on MW-233

1350 START MW-233

DTB: 35.26
SWL: 21.45
13.81 => Vol => 2.2 gals
x6

8/9/18

(55)

38443-360

Vol	pH	Cond	Temp
1	6.63	1.050 mS/cm	24.8°C
2	7.08	0.934	19.9°C
3	7.18	0.976	19.3°C
4	7.31	0.927	18.4°C
5	7.30	0.924	18.7°C
6	7.27	0.899	17.2°C
7	7.30	0.923	17.4°C
8	7.34	0.919	18.6°C
9	7.34	0.906	17.6°C
10	7.43	0.979	18.4°C
11	7.43	0.943	18.5°C
12	7.35	0.970	20.1°C

1455 Purged a total of 26.8 gals.

1515 empty tank of purge water into Frac Tank #1

1545 Offsite

Jon McCord

8/15/18 103.40 26.44 (135)

38443-360

Personel: J. Close / Andy Schwartz
~~to~~ Peter Schaler - Jacobs (USEPA
Weather: overcast rain
Activities: Develop MW-223B

1030 Onsite
1035 TGSM
Go to Home depot for supplies
1200 onsite @ DP&L
1205 Set up to develop MW-22B

DTB 103.40 soft
SWL 26.44
76.96
x .16
12.31 => 12.31 gals/vols

1240 start purging ~ 123.1 gals

1245 Calibration of Turbidity meter (Pumi 118074)

	STD	RDG
10 nTu (C799843)	10 nTu	9.69 nTu

8/15/18

38443-360

1250 Calibration of YSI 556 (Premier# 1145509)

	STD	RDG
pH (8030275)	7.0	7.0
Cond (13317)	4.0	4.0
	4.49 mS/cm	4.398 mS/cm
ORP (17K100375)	232 mV	232 mV
DO (Tap H_2O)	100%	100.5% @ 8.97 mg/L

Development Readings

Vol	pH	Cond	Temp	Turb	ORP	DO
1	7.12	0.497	13.70	>1000	136.0	9.75
2	7.33	0.508	13.63	>1000	123.3	10.33
3	7.39	0.502	13.30	556	119.2	9.62
4	7.46	0.509	13.51	266	112.1	9.78
5	7.40	0.511	13.78	260	86.3	9.97
6	7.40	0.510	13.61	159	62.2	9.88
7	7.42	0.513	13.86	111	45.2	10.32
8	7.40	0.508	13.60	119	38.8	10.63
9	7.40	0.515	14.05	112	33.9	10.07
10	7.41	0.516	13.81	112	27.9	10.51

Total gallons removed ~ 124 gals

8/15/18

38443-360

SWLs

Well ID	SWL
MW-223B	26.44
MW-223A	26.12
MW-224A	26.53
MW-224B	27.12
MW-217	27.75
MW-230	28.29
MW-209	6.20
MW-209A	5.86
MW-212	20.08
MW-233	21.49
MW-234	15.37
MW-235	25.27

1600 Off site to Premier Safety

[signature]

Appendix B.2
Low Flow Purging Records – Monitoring Wells

Page 1 of 2

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 3 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 210-B
Vapour PID (ppm): 0.1
Measurement Point:
Constructed Well Depth (m/ft): 200.33
Measured Well Depth (m/ft): 106.01
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 101.01
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 25.21

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp mL ~~(L)~~	No. of Well Screen Volumes Purged[4]
1000	150 mL/min	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1015	150	25.21	0	15.96	0.646	92.4	0.03	7.22	-98.1	2,250	
1020		25.21	0	15.96	0.646	51.1	0.89	7.22	-99.5	3,000	
1025		25.21	0	15.85	0.643	24.5	0.24	[illegible]	[illegible]	3,750	
1030		25.21	0	16.02	0.648	71.1	0.65	7.22	-117.[illegible]	4,500	
1035		25.21	0	16.06	0.650	93.7	[illegible]	7.26	-120.1	5,250	
1040		25.21	0	16.04	0.650	91.3	0.[illegible]	7.24	-129.2	6,000	
1045		25.21	0	16.02	0.651	194	0.66	7.27	-130.[illegible]	6,750	
1050		25.21	0	15.94	0.650	110	0.62	7.2[illegible]	-133.[illegible]	7,500	
1055		25.21	0	16.00	0.650	140	0.[illegible]	7.2[illegible]	-140.[illegible]	8,[illegible]	
1100		25.21	0	16.01	0.650	97.3	0.[illegible]	7.2[illegible]	-142.5	9,[illegible]	
1105		25.21	0	15.99	0.649	86.4	0.[illegible]	7.2[illegible]	-141.[illegible]	10,[illegible]	
1110		25.21	0	15.97	0.650	62.7	0.[illegible]	7.2[illegible]	-1[illegible]	11,500	
1115		25.21	0	15.94	0.649	49.7	0.5	7.2[illegible]	-1[illegible]	11,250	

Sample ID: GW-38443-10 03 17-SCT-001 (MS/MSD)

Sample Time: 1310

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

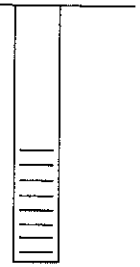
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/03/17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW-210-B
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 25.21



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1000	150	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1120		25.21	0	15.98√	0.649√	47.9	0.49√	7.28√	-149.5√	12,000	
1125		25.21	0	16.06√	0.651√	35.9	0.48√	7.31√	-151.7√	12,750	
1130		25.21	0	16.09√	0.650√	27.7	0.46√	7.29√	-149.3√	13,500	
1135		25.21	0	16.18√	0.652√	22.0	0.47√	7.31√	-152.3√	14,250	
1140		25.21	0	16.14√	0.652√	17.7	0.47√	7.31√	-148.3√	15,000	
1145		25.21	0	16.23√	0.653√	15.6	0.45√	7.32√	-148.2√	15,750	
1150		25.21	0	16.29√	0.654√	13.8	0.45√	7.32√	-153.8√	16,500	
1155		25.21	0	16.35√	0.655√	11.4	0.46√	7.31√	-147.5√	17,250	
1200		25.21	0	16.44√	0.657√	9.18	0.45√	7.34√	-152.6√	18,000	
1205		25.21	0	16.44√	0.657√	7.64	0.45√	7.32√	-151.7√	18,750	
1210		25.21	0	16.41√	0.657√	8.44	0.44	7.32√	-151.3√	19,500	
1215		25.21	0	16.45√	0.657√	7.02	0.43	7.32√	-156.3√	20,250	
1220		25.21	0	16.45√	0.654√	4.92√	0.44√	7.31√	-155.3√	20,000	

Sample ID: GW-38443-10 03 17-SCT-001 (MS/MSD) Sample Time: 1310

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

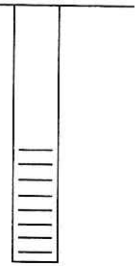
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/03/17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 210A
Vapour PID (ppm): 0.1
Measurement Point:
Constructed Well Depth (m/ft): 88.99
Measured Well Depth (m/ft): 89.30
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 84.30
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 25.02



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1035	150	25.02		16.61	0.724	146	23.0	7.17	-69.1		
1040	150	25.03		16.81	0.728	127	11.9	7.23	-77.3		
1045	150	25.02		16.99	0.731	90.2	8.7	7.28	-80.8		
1050	136	25.02		16.91	0.729	70.1	7.0	7.26	-81.7		
1055	150	25.02		17.11	0.733	57.1	5.7	7.29	-76.3		
1100	150	25.02		17.22	0.735	45.8	4.9	7.28	-78.3		
1105	150	25.02		17.34	0.737	42.7	4.8	7.29	-78.8		
1110	150	25.02		17.50	0.739	29.8	4.2	7.31	-77.8		
1115	150	25.02		17.62	0.742	22.8	4.0	7.30	-76.3		
1120	150	25.02		17.66	0.743	16.3	3.7	7.31	-77.3		
1125	150	25.02		17.75	0.744	15.7	3.8	7.31	-78.3		
1130	150	25.02		17.82	0.745	15.5	3.7	7.31	-78.8		

Sample ID: GW-38443-10 03 17-DA - 002
Sample Time: 1150

Notes: TUBING IN SUN

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

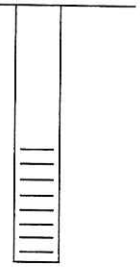
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/03/17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 210
Vapour PID (ppm): 0.4
Measurement Point:
Constructed Well Depth (m/ft): 38.42
Measured Well Depth (m/ft): 38.85
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 33.85'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 22.60



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1315	150	32.62		17.99	0.917	94.9	5.8	7.10	3.0		
1320	150	32.61		18.13	0.920	77.8	5.4	7.12	2.0		
1325	150	32.60		18.34	0.922	61.9	5.3	7.12	2.0		
1330	150	32.60		18.17	0.920	52.3	5.0	7.10	5.6		
1335	150	32.60		18.22	0.921	37.3	4.9	7.12	7.0		
1340	150	32.60		18.19	0.919	29.3	4.9	7.11	9.7		
1345	150	32.60		18.26	0.920	18.4	4.8	7.11	9.3		
1350	150	32.60		18.34	0.921	18.7	4.7	7.13	9.3		
1355	150	32.60		18.11	0.918	18.4	4.5	7.12	10.5		
1400	150	32.60		18.16	0.920		4.5	7.13	9.6		

Sample ID: GW-38443-10 03 17- DA - 003
Sample Time: 1415

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

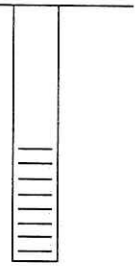
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 04 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 227
Vapour PID (ppm): 0.1
Measurement Point:
Constructed Well Depth (m/ft): 37.87
Measured Well Depth (m/ft): 35.40
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 30.40'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 30.51



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
0845	150	30.51		16.72	1.095	14.8	18.0	6.51	-41.4		
0850	156	30.51		16.54	1.092	11.3	19.5	6.54	-40.7		
0855	150	30.51		16.53	1.092	9.37	19.3	6.57	-40.7		
~~0900~~ 0900	150	30.51		16.52	1.093	6.25	19.1	6.58	-42.1		
0905	150	30.51		16.53	1.093	6.10	19.0	6.59	-42.4		

Sample ID: GW-38443-10 04 17- DA - 004
Sample Time: 0910 ~~0935~~ 0955

Notes: GW-38443-100417-DA-005 (DUPLICATE)

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 04 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 208
Vapour PID (ppm): 0.3
Measurement Point:
Constructed Well Depth (m/ft): 44.95'
Measured Well Depth (m/ft): 44.75'
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 39.75'
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 25.06

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
0820	150	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
0825		25.07	.01	17.27	1.089	98.7	4.27	6.77	134.5	2250	
0830		25.07	.01	17.36	1.093	71.5	4.32	6.80	131.0	3000	
0845		25.07	.01	17.39✓	1.097	52.4	4.21✓	6.82✓	129.8✓	3750	
0850		25.07	.01	17.42✓	1.100	34.2	4.34✓	6.83✓	131.0✓	4,250	
0855		25.07	.01	17.41✓	1.103	26.5	4.31✓	6.83✓	133.1✓	5000	
0900		25.07	.01	17.45✓	1.107	24.5	4.47✓	6.84✓	137.0✓	5750	
0905		25.07	.01	17.53✓	1.112	18.5	4.58✓	6.84✓	140.6✓	6500	
0910		25.07	.01	17.56✓	1.115	17.3	4.51✓	6.84✓	144.9✓	7250	
0915		25.07	.01	17.61✓	1.118	15.4	4.33✓	6.85✓	147.0✓	8000	
0920		25.07	.01	17.69	1.122	13.6	4.26✓	6.85✓	150.2✓	8750	
0925		25.07	.01	17.74	1.126	13.0	4.26✓	6.85✓	152.0✓	9500	
0930		25.07	.01	17.80✓	1.130	11.9	4.24✓	6.86✓	152.9✓	10250	
0935		25.07	.01	17.81✓	1.130	11.6✓	4.24✓	6.86✓	155.1✓	11000	

Sample ID: GW-38443-10 04 17-SCT- 006
Sample Time: 1005

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

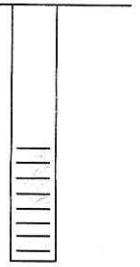
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 04 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 226
Vapour PID (ppm): 0.0
Measurement Point:
Constructed Well Depth (m/ft): 19.67
Measured Well Depth (m/ft): 18.24
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 13.24'
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 11.5 T.O.P



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1030	150	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1045	|	11.5	T.O.P	17.39	1.082	4.69	0.85	7.02	104.2	2,250	
1050	|	|	|	17.77	1.091	2.96	0.96	7.02	96.5	3000	
1055	|	|	|	17.81	1.096	2.24	0.86	7.02	90.3	3750	
1100	|	|	|	17.83	1.096	1.95	0.71	7.01	88.2	4500	

Sample ID: GW-38443-10 04 17-SG-007 **Sample Time:** 1035

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

TUBING IN SUN WHILE SAMPLING

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

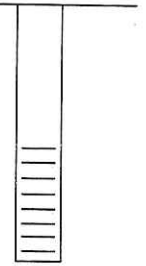
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 04 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 206
Vapour PID (ppm): 0.0
Measurement Point:
Constructed Well Depth (m/ft): 34.92
Measured Well Depth (m/ft): 31.88
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 29.92'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]: 7.93
Initial Depth to Water (m/ft):



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1250	150	7.93	~~18.90~~	18.90	0.738	17.9	7.5	6.81	25.9		
1255	150	7.93		18.64	0.737	9.32	7.1	6.81	26.9		
1300	150	7.93		18.72	0.736	7.06	6.9	6.81	28.7		
1305	150	7.93		19.21	0.745	6.38	6.9	6.85	27.1		
1310	150	7.93		18.74	0.741 ~~0.744~~	5.49	6.8	6.84	30.5		
1315	150	7.93		18.76	0.744	5.45	6.6	6.85	29.7		

Sample ID: GW-38443-10 04 17- DA-008

Sample Time: 1320

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

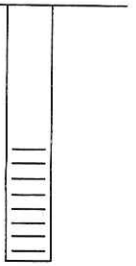
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 04 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 207
Vapour PID (ppm): 0.0
Measurement Point:
Constructed Well Depth (m/ft): 35.71
Measured Well Depth (m/ft): 31.42
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: ~~30.71'~~ 29.71'
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[4]:
Initial Depth to Water (m/ft): 7.89



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1200	150	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1205	|	7.89	0	17.00	0.679	438	1.05	7.11	-100.5	2,250	
1210	|	7.89	0	16.11	0.665	376	0.56	6.96	-89.8	3000	
1215	|	7.89	0	15.96	0.665	287	0.55	6.97	-89.6	3750	
1220	|	7.89	0	16.01	0.667	256	0.77	7.01	-91.7	4500	
1225	|	7.89	0	16.48	0.678	196	0.84	7.05	-92.5	5250	
1230	|	7.89	0	16.56	0.686	177	0.81√	7.03√	-90.9√	6000	
1235	|	7.89	0	16.90	0.685	154	0.65	7.05√	-91.0√	6750	
1240	|	7.89	0	17.40	0.700	126	0.75	7.08√	-90.9√	8250	
1245	|	7.89	0	17.27	0.698	129	0.73√	7.07√	-89.1√	9000	
1250	|	7.89	0	17.04	0.693	119	0.58	7.03√	-85.7√	9750	
1255	|	7.89	0	17.49	0.700	106	0.56√	7.03√	-85.3√	10500	
1300	|	7.89	0	17.44	0.701√	98.9	0.51√	7.05√	-84.7√	11250	
1305	|	7.89	0	17.58	0.702√	87.1	0.48√	7.04√	-84.4√	12000	

Sample ID: GW-38443-10 04 17-~~SD~~ ~~208~~ 609

Sample Time: 1500

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

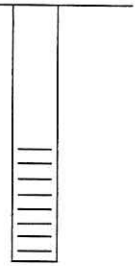
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 04 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 207
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 7.89



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1200	150	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1320		7.89	0	17.58	0.703	80.5	0.46	7.04	-84.4	12750	
1325		7.89	0	17.80	0.707	74.3	0.45	7.06	-85.4	13500	
1330		7.89	0	17.08	0.697	73.0	0.42	6.99	-81.2	14250	
1335		7.89	0	17.06	0.697	71.1	0.43	6.98	-80.9	15000	
1340		7.89	0	17.10	0.699	60.2	0.41	7.00	-82.5	15750	
1345		7.89	0	17.36	0.702	58.8	0.40	7.02	-81.9	16500	
1350		7.89	0	17.22	0.704	56.1	0.40	7.05	-82.7	17250	
1355		7.89	0	16.92	0.697	51.6	0.38	6.98	-81.0	18000	
1400		7.89	0	16.59	0.692	50.7	0.39	6.93	-76.9	18750	
1405		7.89	0	16.46	0.690	52.9	0.36	6.93	-77.1	19500	
1410		7.89	0	16.34	0.687	47.4	0.36	6.97	-79.0	20250	
1415		7.89	0	16.06	0.685	46.2	0.35	6.95	-77.4	21000	
1420		7.89	0	15.93	0.682	45.9	0.34	6.94	-76.3	21750	

Sample ID: GW-38443-10 04 17-SCT-~~005~~ JMC 009

Sample Time: 1500

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

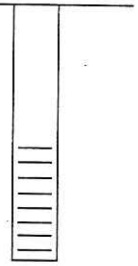
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 04 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 207
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 7.89



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1200	150	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1425	1	7.89	0	15.94 ✓	0.682 ✓	43.3 ✓	0.34 ✓	6.96 ✓	-78.3 ✓	22500	
1430	1	7.89	0	16.01	0.684 ✓	42.4 ✓	0.31 ✓	7.01 ✓	-79.4 ✓	23250	

Sample ID: GW-38443-1004 17-SCT- ~~DUP~~ JMC 009

Sample Time: 1500

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 05 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 218A
Vapour PID (ppm): 0.0
Measurement Point:
Constructed Well Depth (m/ft): 24.53
Measured Well Depth (m/ft): 24.86
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 19.86'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 14.85

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1205	150	14.85		20.89	0.480	4.44	7.3	7.25	115.0		
1210	150	14.85		20.89	0.480	2.44	7.2	7.26	114.4		
1215	150	14.85		20.89	0.480	1.35	6.9	7.27	113.1		

Sample ID: GW-38443-1005 17- 218A - 010
Sample Time: 1230

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

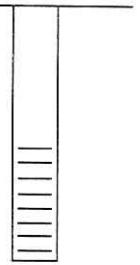
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 05 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 218-B
Vapour PID (ppm): 0.0
Measurement Point:
Constructed Well Depth (m/ft): 79.84
Measured Well Depth (m/ft): 78.93
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 74.84'
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 14.65



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1150	150mL	Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1155		14.65	0	18.20	0.901	62	1.95	7.05	-92.5	2250	
1200		14.65	0	18.10	0.896	58	1.82	7.01	-93	3000	
1205		14.65	0	18.04	0.899	24.6	0.90	6.97	-96.4	3750	
1210		14.65	0	18.08	0.903	16.9	0.87	6.98	-99.7	4500	
1215		14.65	0	18.08	0.906	14.6	0.80	6.99	-101.3	5250	
1220		14.65	0	17.98✓	0.906✓	12.4	0.93✓	6.97✓	-101.5✓	6000	
1225		14.65	0	17.98✓	0.907✓	8.65	0.88✓	6.98✓	-103.3✓	6750	
1230		14.65	0	17.98✓	0.908✓	8.60	0.83✓	6.99✓	-103✓	7500	
1235		14.65	0	17.99✓	0909✓	8.61✓	0.81	6.99✓	-103.5		

Sample ID: GW-38443-10 05 17- SG- 011

Sample Time: 13.05

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

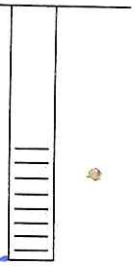
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 05 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW-225
Vapour PID (ppm): 0.6
Measurement Point:
Constructed Well Depth (m/ft): 29.68
Measured Well Depth (m/ft): 29.45
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 24.45'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 22.15' Top of pump



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
1420	150	22.15		17.28	0.287	6.92	5.0	7.36	107.1		
1425	150	↓		17.44	0.337	7.45	5.10	7.36	104.4		
1430	↓			17.45	0.364	3.85	5.17	7.44	104.4		
1435				17.50	0.403	2.58	5.14	7.37	104.4		
1440				17.50	0.453	2.11	5.08	7.35	105.5		
1445				17.50	0.463	1.73	5.28	7.31	103.1		
1450	↓	↓		17.50	0.471	1.37	5.51	7.30	102.9		

Sample ID: GW-38443-1005 17-DA-012
Sample Time: 1515

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing). No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

metals only (Total & D.350)

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

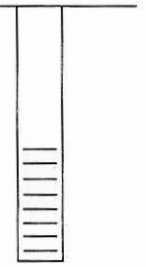
Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/ 6 6 /17
Personnel: Dillon Antulis Seamus Tedrick
Jason Close

Monitoring Well Data:

Well No.: MW- 210
Vapour PID (ppm): 0.4
Measurement Point:
Constructed Well Depth (m/ft): 38.42
Measured Well Depth (m/ft): 38.85
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 33.42'
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 23.60



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 % or > 5	±0.3 mg/l	±0.1 Units	±10 mV		
0845	150	23.60		16.41	0.991	57.2	0.92	6.62 ✓	145.2 ✓		
0850				16.42 ✓	0.992 ✓	43.0	0.86 ✓	6.65 ✓	141.3 ✓		
0855				16.45 ✓	0.990 ✓	35.8	0.61 ✓	6.68 ✓	135.9 ✓		
0900				16.43 ✓	0.996 ✓	25.4 ✓	0.57 ✓	6.67 ✓	133.1 ✓		
0905				16.44 ✓	0.990 ✓	17.9 ✓	0.56 ✓	6.71 ✓	129.9 ✓		
0910				16.41 ✓	0.987 ✓	16.5 ✓	0.52 ✓	6.72 ✓	126.8 ✓		
0915				16.46 ✓	0.990 ✓	15.8 ✓	0.52 ✓	6.74 ✓	123.8 ✓		
0920				16.47 ✓	0.991 ✓	11.0 ✓	0.52 ✓	6.76 ✓	122.2 ✓		
0925				16.57 ✓	0.993 ✓	7.43 ✓	0.49 ✓	6.75 ✓	120.1 ✓		
0930				16.60 ✓	0.994 ✓	6.90 ✓	0.47 ✓	6.74 ✓	119.4 ✓		
0935				16.61 ✓	0.995 ✓	6.25 ✓	0.41 ✓	6.74 ✓	116.2 ✓		
0940				16.60 ✓	0.993 ✓	5.91 ✓	0.39 ✓	6.74 ✓	114.2 ✓		
0945	↓	↓		16.60 ✓	0.993 ✓	5.88 ✓	0.39 ✓	6.74 ✓	113.2 ✓		

Sample ID: GW-38443-10 66 17- DA - 013
Sample Time: 0950

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

(1235) GW-38443-032318-GL-0001 MS/MSD
(1300) GW-38443-032318-GL-0002 (DUPLICATE)

Project Data:

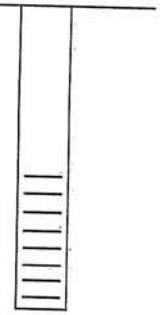
Project Name: SOUTH DUNTON DUMP
Ref. No.: 038443

Date: 3/23/18
Personnel: G. LEWIS

Monitoring Well Data:

Well No.: MW-214
Vapour PID (ppm): 0.0 ppm
Measurement Point: TOR
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)(1):
Well Diameter, D (cm/in): 2" PVC
Well Screen Volume, V_s (L)(2):
Initial Depth to Water (m/ft): 13.23



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level(3) (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged(4)
			Precision Required(5):	±3 %	±0.005 or 0.01(5)	±10 %	±10 %	±0.1 Units	±10 mV		
1045	BEGIN PURGING @ 300 mL/MIN										
1055	300 mL/min	13.25		13.12	0.855	33.4	0.52	7.08	-155.1	3000mL	
1105	300 mL/min	13.25		13.23	0.846	24.2	0.65	7.06	-112.4	6000mL	
1115	300 mL/min	13.24		13.29	0.844	15.1	0.91	7.05	-77.6	9000mL	
1125	300 mL/min	13.25		13.46	0.847	11.0	1.09	7.02	-66.8	12000mL	
1135	300 mL/min	13.24		13.54 ✓	0.850 ✓	8.11	1.15 ×	7.05 ✓	-61.7 ×	15000mL	
1145	300 mL/min	13.25		13.58 ✓	0.852 ✓	5.88	1.17 ×	7.05 ✓	-56.3 ✓	18000mL	
1155	300 mL/min	13.24		13.63 ✓	0.855 ✓	5.17	1.18 ✓	7.04 ✓	-54.5 ✓	21000mL	
1205	300 mL/min	13.25		13.54 ✓	0.857 ✓	4.88 ✓	1.19 ✓	7.04	-53.6 ✓	24000mL	

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.
(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches
(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.
(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

214

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

Project Name: South Dayton Dump
Ref. No.: 038443-360

Date: 10/16/18
Personnel: A. Schwartz

Monitoring Well Data:

Well No.: MW-224B
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 27.05

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1015 Begin Purge @ 300 mL/min											
1020	300	27.05	0	14.46	0.560	43.7	2.25	6.54	84.0	1,500 mL	
1025	300	27.05	0	14.39	0.787	68.2	0.89	6.94	25.0	3,000 mL	
1030	300	27.05	0	14.33	0.897	53.9	0.52	7.22	-59.7	4,500 mL	
1035	300	27.05	0	14.31 ✓	0.930	35.7	0.43	7.35	-86.8	6,000 mL	
1040	300	27.05	0	14.32 ✓	0.935	20.9	0.39	7.41	-90.2	7,500	
1045	300	27.05	0	14.31 ✓	0.938	19.2	0.36	7.49	-96.8	9,000 mL	
1050	300	27.05	0	14.35 ✓	0.942	15.8	0.33	7.53	-101.5	10,500 mL	
1055	300	27.05	0	14.28 ✓	0.943	12.8	0.31	7.56	-102.4	11,500 mL	
1100	300	27.05	0	14.25 ✓	0.944 ✓	11.0	0.30 ✓	7.58 ✓	-103.9 ✓	13,000 mL	
1105	300	27.05	0	14.26 ✓	0.946 ✓	8.48	0.29 ✓	7.59 ✓	-105.5	14,500 mL	
1110	300	27.05	0	14.26 ✓	0.947 ✓	7.97	0.29 ✓	7.60 ✓	-105.4	16,000 mL	
1115	300	27.05	0	14.25 ✓	0.946 ✓	9.43 ✓	0.29 ✓	7.59 ✓	-107.0	17,500 mL	
1120											

Sample ID: GW-38443-101618-AS-214

Sample Time: 1120

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s = \pi * (r^2) * L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s = \pi * (r^2) * L * (2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

.941 .946 15.9 13.2

215

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: ~~03~~ 03843-300
Task 10/16/18

Date: 10/16/18
Personnel: A. Schwab

Monitoring Well Data:
Well No.: MW-224A (1 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 26.47

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
		Precision Required[5]:		±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1210 - Begin Purge 300mL/min											
1215	300	26.47	0	14.37	2.321	59.8	8.73	7.48	69.3	1,500mL	
1220	300	26.47	0	14.99	2.046	34.9	5.66	7.43	65.5	3,000mL	
1225	300	26.47	0	14.99	2.101	27.5	5.25	7.37	62.4	4,500mL	
1230	300	26.47	0	15.00	2.131	19.5	4.82	7.36	60.3	6,000mL	
1235	300	26.47	0	15.00	2.158	13.1	4.10	7.35	58.3	7,500mL	
1240	300	26.47	0	15.00	2.184	10.0	3.34	7.35	55.9	9,000mL	
1245	300	26.47	0	14.99✓	2.193	8.39	3.07✗	7.35✓	55.9✓	10,500	
1250	300	26.47	0	14.99	2.199	7.54	2.56	7.35	54.1	12,000mL	
1255	300	26.47	0	15.00	2.203	7.01	2.17	7.35	52.0	13,500	
1300	300	26.47	0	15.00	2.208	6.63	1.94	7.34	50.7	15,000mL	
1305	300	26.47	0	14.98✓	2.203✓	4.39✓	1.73✗	7.34✓	49.6✓	16,500mL	
1310	300	26.47	0	14.99	2.207✓	4.00✓	1.48	7.32	48.2	18,000mL	
1315	300	26.47	0	14.97✓	2.208✓	2.83	1.33	7.33	47.5	19,500mL	

Sample ID:

Sample Time:

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

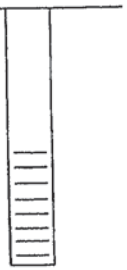
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 038443

Date: 10/16/18
Personnel: A. Schwab

Monitoring Well Data:
Well No.: MW-224-A (2 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 26.47



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1320	300	26.47	0	14.97	2.214	2.73	1.16	7.32	46.5	21,000mL	
1325	300	26.47	0	14.96	2.210	3.20 ✓	1.05	7.32	45.7	22,500mL	
1330	300	26.47	0	14.96 ✓	2.208 ✓	3.41 ✓	0.95	7.32	44.8	24,000mL	
1335	300	26.47	0	14.98 ✓	2.211 ✓	1.96 ✓	0.85	7.32 ✓	44.3 ✓	25,500mL	
1340	300	26.47	0	15.00	2.212 ✓	2.26 ✓	0.75	7.32 ✓	43.1	27,000mL	
1345	300	26.47	0	14.98 ✓	2.212 ✓	2.75 ✓	0.70	7.33 ✓	42.8 ✓	28,500mL	
1350	300	26.47	0	14.99 ✓	2.211 ✓	2.61	0.68 ✓	7.33 ✓	41.2 ✓	30,000mL	
1355	300	26.47	0	14.99	2.212 ✓	2.53	0.64 ✓	7.33	41.5 ✓	31,500mL	

Sample ID: GW-38443-10/16/18-AS-215

Sample Time: 1400

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

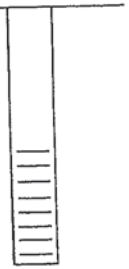
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 38443-360

Date: 10/16/18
Personnel: J. Cook

Monitoring Well Data:
Well No.: MW-234
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft): 2
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: ~30' 21
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): ≈15.37



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1435	400	15.37	—	20.72	0.380	541	2.36	6.72	85.0		
1440	400	15.37	—	20.67	0.382	387	2.05	6.75	81.6		
1445	400	15.37	—	20.37	0.394	237	1.29	6.82	72.8		
1450	400	15.37	—	20.12	0.404	140	0.75	6.90	65.2		
1455	400	15.37	—	20.05	0.409	104	0.61	6.93	61.1		
1500	400	15.37	—	19.97	0.411	85.4	0.51	6.96	58.0		
1505	400	15.37	—	19.96	0.411	76.9	0.47	6.97	56.5		
1510	400	15.37	—	19.98	0.413	62.4	0.43	6.99	53.7		
1515	400	15.37	—	19.94	0.413	60.3	0.42	7.01	51.1		
1520	400	15.37	—	19.89	0.413	58.3	0.43	7.02	49.5		

Sample ID: GW-38443-101618-JC-216
Sample Time: 1530

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

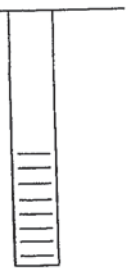
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 038443

Date: 10/12/18
Personnel: A. Schaap

Monitoring Well Data:
Well No.: MW-209 (1 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 5.42



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
0845 Begin Purge @ 300	Precision Required[5]:			±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0850	300	6.32	0.90	15.16	0.826	243	1.03	6.85	-61.8	4,500mL	
0855	200	6.10	0.68	15.08	0.828	216	0.53	7.00	-95.8	2,500mL	
0900	200	6.10	0.68	15.18	0.830	204	0.45	7.13	-114.9	3,500mL	
0905	200	6.10	0.68	14.93 ✓	0.829 ✓	163	0.38	7.23	-120.3	4,500mL	
0910	200	6.10	0.68	15.05 ✓	0.829 ✓	148	0.33	7.26	-123.0	5,500mL	
0915	200	6.10	0.68	15.01 ✓	0.830 ✓	134	0.30	7.26	-115.2	6,500mL	
0920	200	6.10	0.68	14.97 ✓	0.831 ✓	116	0.27	7.26	-112.3	7,500mL	
0925	200	6.10	0.68	14.98	0.831	98.1	0.27	7.28 ✓	-108.8 ✓	8,500mL	
0930	200	6.10	0.68	15.01 ✓	0.830 ✓	82.4 ✓	0.26 ✓	7.29 ✓	-102.2 ✓	9,500mL	
0935	200	6.10	0.68	15.02 ✓	0.831 ✓	71.9	0.26 ✓	7.32 ✓	-106.5 ✓	10,500mL	
0940	200	6.10	0.68	15.04 ✓	0.833 ✓	62.8	0.26 ✓	7.34	-104.4	11,500mL	
0945	200	6.10	0.68	15.06 ✓	0.831 ✓	55.0	0.26 ✓	7.35 ✓	-102.6 ✓	12,500mL	
0950	200	6.10	0.68	15.11 ✓	0.831	51	0.26	7.36	-101.4	13,500mL	

Sample ID:

Sample Time:

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 038443

Date: 10/17/18
Personnel: A. Schenk

Monitoring Well Data:
Well No.: MW-209 (2 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 5.42

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0955	200	6.10	0.68	15.06 ✓	0.828 ✓	48.1 ✓	0.26 ✓	7.37 ✓	-97.1	14,500 mL	
1000	200	6.10	0.68	15.07 ✓	0.830 ✓	47.0	0.26	7.37 ✓	-95.3	15,500 mL	
1005	200	6.10	0.68	15.09 ✓	0.831 ✓	39.0	0.26	7.38 ✓	-95.4 ✓	16,500 mL	
1010	200	6.10	0.68	15.09 ✓	0.832 ✓	40.6	0.26	7.38	-98.9	17,500	
1015	200	6.10	0.68	15.08 ✓	0.831 ✓	42.9 ✓	0.26 ✓	7.38 ✓	-98.1 ✓	18,500 mL	

Sample ID: GW-38443-101718-AS-218
GW-38443-101718-AS-219

Sample Time: 1025
1035

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

~~43.56~~ 26.92
37.98

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 038443

Date: 10/17/18
Personnel: A. Schwartz

Monitoring Well Data:
Well No.: MW-209A
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 5.81

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1205 Begin Purge @ 300mL/min Precision Required[5]:											
1210	300	5.81	0	17.71	0.999	156	1.01	7.79	-58.9	1,500mL	
1215	300	5.81	0	15.06	0.999	28.2	0.38	7.55	-95.8	3,000mL	
1220	300	5.81	0	14.88	1.221	26.1	0.35	7.50	-98.1	4,500mL	
1225	300	5.81	0	14.94	1.247	16.0	0.30	7.46	-97.4	6,000mL	
1230	300	5.81	0	14.95✓	1.250	11.9	0.29	7.47	-96.0	7,500mL	
1235	300	5.81	0	14.92✓	1.252	6.84	0.26	7.47✓	-95.5	9,000mL	
1240	300	5.81	0	14.88✓	1.251✓	5.87	0.27✓	7.46✓	-95.4✓	10,500mL	
1245	300	5.81	0	14.92✓	1.252✓	3.74✓	0.26✓	7.49✓	-94.0✓	12,000mL	

Sample ID: GW-38443-101718-AS-220

Sample Time: 1255

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

14.91
14.95
14.92

~~1.259~~
1.241
1.252

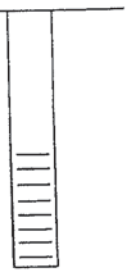
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dep
Ref. No.: 038443

Date: 10/17/18
Personnel: A Schenk

Monitoring Well Data:
Well No.: MW-212
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 20.01



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
BSS Begin Purge @ 300 mL/min	Precision Required[5]:			±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1400	300	20.01	0	14.40	0.650	75.0	1.25	9.27	-80.8	1,500 mL	
1405	300	20.01	0	14.39	0.669	60.6	0.63	9.08	-120.1	3,000 mL	
1410	300	20.01	0	14.35	0.668	56.5	0.54	8.88	-127.1	4,500 mL	
1415	300	20.01	0	14.30 ✓	0.669 ✓	54.6	0.50	8.75	-125.9	6,000 mL	
1420	300	20.01	0	14.29 ✓	0.668 ✓	54.5	0.63	8.65	-132.4	7,500	
1425	300	20.01	0	14.27 ✓	0.668 ✓	57.2	0.58	8.56	-135.8	9,000 mL	
1430	300	20.01	0	14.29 ✓	0.669 ✓	48.9 ✗	0.54 ✓	8.51 ✗	-138.7 ✓	10,500 mL	
1435	300	20.01	0	14.29	0.670 ✓	41.6	0.52 ✓	8.45 ✗	-140.1	12,000	
1440	300	20.01	0	14.30 ✓	0.671 ✓	33.6	0.50	8.42	-140.0	13,500	
1445	300	20.01	0	14.30	0.672 ✓	26.6	0.49	8.38	-144.6	15,000 mL	
1450	300	20.01	0	14.31 ✓	0.672 ✓	23.9	0.49 ✓	8.36 ✓	-143.2 ✓	16,500 mL	
1455	300	20.01	0	14.32 ✓	0.673 ✓	22.6	0.49 ✓	8.34 ✓	-144.5	18,000 mL	
1500	300	20.01	0	14.33 ✓	0.673 ✓	21.9 ✓	0.49 ✓	8.32 ✓	-140.3	19,500 mL	

Sample ID: GW-38443-101718-AS-222

Sample Time: 1510

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

21.75 53.5 55.4 48.1 60.7 49.86 .58 .52 8.6 8.57 8.55 8.47

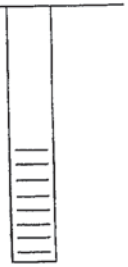
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 38443-3600

Date: 10/17/18
Personnel: S. Gorse

Monitoring Well Data:
Well No.: MW-217
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]: 5
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 27.78



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0930	400	27.78	—	14.93	0.795	453	5.00	6.48	149.3		
0935	400	27.78	—	14.48	0.947	228	3.55	6.57	131.1		
0940	400	27.78	—	14.39	0.990	69.0	1.54	6.62	123.7		
0945	400	27.78	—	14.31	1.005	31.5	0.82	6.67	116.4		
0950	400	27.78	—	14.31	1.010	11.6	0.77	6.69	112.1		
0955	400	27.78	—	14.28	1.011	7.97	0.73	6.71	107.6		
1000	400	27.78	—	14.35	1.012	5.36	0.64	6.72	103.4		
1005	400	27.78	—	14.47	1.017	5.45	0.73	6.73	96.9		
1010	400	27.78	—	14.51	1.017	4.11	0.75	6.74	94.0		
1015	400	27.78	—	14.59	1.019	4.74	0.79	6.74	90.7		

Sample ID: GW-38443-101718-JC-217 (ms/msD) Sample Time: 1030

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 38443-3620

Date: 10/7/18
Personnel: J. Cook

Monitoring Well Data:
Well No.: MW-230
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 28.35

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1355	480	28.35	—	14.53	0.867	71000	4.72	6.85	79.0		
1400	450	28.35	—	14.56	0.872	71000	2.44	6.71	65.1		
1405	450	28.35	—	14.61	0.873	316	0.55	6.65	56.0		
1410	450	28.35	—	14.66	0.873	145	0.33	6.63	47.1		
1415	450	28.35	—	14.64	0.872	125	0.30	6.62	44.2		
1420	450	28.35	—	14.63	0.872	125	0.29	6.63	43.3		
1425	450	28.35	—	14.69	0.872	128	0.25	6.62	39.5		
1430	450										

Sample ID: GW-38443-101718-JC-221

Sample Time: 1440

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

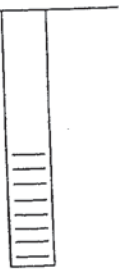
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Deep
Ref. No.: 038443

Date: 10/18/18
Personnel: A. Schuett

Monitoring Well Data:
Well No.: MW-235 (1 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 25.10



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
0910 - Begin Purge @ 200mL/min	Precision Required[5]:			±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0915	200	25.10	0	14.21	1.484	71000	3.09	6.94	-17.3	1,000mL	
0920	200	25.10	0	14.59	1.505	71000	0.69	6.56	-55.9	2,000mL	
0925	200	25.10	0	14.72	1.511	71000	0.51	6.58	-65.8	3,000mL	
0930	200	25.10	0	14.77	1.515	71000	0.48	6.60	-61.2	4,000mL	
0935	200	25.10	0	14.73 ✓	1.515 ✓	71000	0.37 ✓	6.59	-68.3	5,000mL	
0940	200	25.10	0	14.80	1.516 ✓	71000	0.31	6.60	-72.7	6,000mL	
0945	400	25.10	0	14.99	1.522 ✓	71000	0.22	6.60	-76.4	8,000mL	
0950	400	25.11	.01	15.02 ✓	1.522 ✓	930	0.21	6.60	-77.6	10,000mL	
0955	400	25.11	.01	15.07 ✓	1.523 ✓	558	0.19	6.60	-78.9	12,000mL	
1000	400	25.11	.01	15.08 ✓	1.522 ✓	342	0.19	6.60	-79.5	14,000mL	
1005	400	25.11	.01	15.08 ✓	1.523	209	0.21	6.61	-69.5	16,000mL	
1010	400	25.11	.01	15.12 ✓	1.524 ✓	116	0.21	6.61	-76.2	18,000mL	
1015	400	25.11	.01	15.07	1.521 ✓	70.1	0.22	6.61	-77.6	20,000mL	

Closed out - flow rate

Sample ID: _____ Sample Time: _____

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

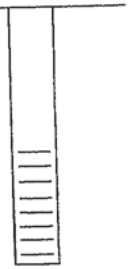
Project Name: South Dayton Dump
Ref. No.: 038443

Date: 10/18/18
Personnel: A. Schaale

Monitoring Well Data:

Well No.: MW-235 (2 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 25.10



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1020	400	25.11	.01	15.12 ✓	1.523 ✓	51.9	0.21	6.66	-78.9	22,000mL	
1025	400	25.11	.01	15.14 ✓	1.523 ✓	31.9	0.16	6.66	-79.5	24,000mL	
1030	400	25.11	.01	15.13 ✓	1.523 ✓	25.2	0.19	6.61 ✓	-79.7 ✓	26,000mL	
1035	400	25.11	.01	15.11 ✓	1.522 ✓	22.3	0.19	6.61 ✓	-80.0	28,000mL	
1040	400	25.11	.01	15.13 ✓	1.521	15.5 ✓	0.20 ✓	6.61	-80.0	30,000mL	
1045	400	25.11	.01	15.15 ✓	1.523 ✓	13.1	0.19 ✓	6.61	-80.2	32,000mL	
1050	400	25.11	.01	15.17 ✓	1.523 ✓	10.9	0.20 ✓	6.63	-80.1	34,000mL	
1055	400	25.11	.01	15.18 ✓	1.523 ✓	9.59	0.21 ✓	6.64	-79.9	36,000mL	
1100	400	25.11	.01	15.20 ✓	1.522 ✓	8.60	0.22 ✓	6.64	-79.8	38,000mL	
1105	400	25.11	.01	15.19	1.520 ✓	7.79	0.22 ✓	6.64	-79.4	40,000mL	
1110	400	25.11	.01	15.20 ✓	1.521	5.44	0.22 ✓	6.64	-78.9	42,000mL	
1115	400	25.11	.01	15.21 ✓	1.522 ✓	5.42	0.23 ✓	6.64 ✓	-69.6 ✓	44,000mL	
1120	400	25.11	.01	15.25	1.522 ✓	4.98 ✓	0.22 ✓	6.65 ✓	-73.1	46,000mL	

Sample ID: GW-38443-101818-AS-229

Sample Time: 1130

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

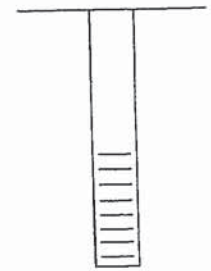
Project Name: South Dayton Dump
Ref. No.: 038443

Date: 10/18/18
Personnel: A. Schwartz

Monitoring Well Data:

Well No.: MW-233 (1 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 21.54



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
1215 - Begin Purge @ 400 mL/min			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1220	400	21.54	0	13.89	0.758	102	2.25	7.82	17.1	2,000 mL	
1225	400	21.54	0	13.82	0.776	127	1.15	7.23	19.5	4,000 mL	
1230	400	21.54	0	13.78	0.804	87.1	0.80	7.11	21.4	6,000 mL	
1235	400	21.54	0	13.78	0.820	53.2	0.71	7.04	22.9	8,000 mL	
1240	400	21.54	0	13.77	0.830	38.4	0.61	7.01	23.9	10,000 mL	
1245	400	21.54	0	13.78	0.838	30.6	0.55	7.00	24.5	12,000 mL	
1250	400	21.54	0	13.77 ✓	0.842	24.6	0.49	6.99	25.0	14,000	
1255	400	21.54	0	13.79 ✓	0.845	24.0	0.47	6.98	25.4	16,000 mL	
1300	400	21.54	0	13.78 ✓	0.846 ✓	24.4	0.46	6.98	26.0 ✓	18,000 mL	
1305	400	21.54	0	13.78 ✓	0.849 ✓	19.9 ✓	0.42 ✓	6.97 ✓	26.4 ✓	20,000 mL	
1310	400	21.54	0	13.76 ✓	0.854	16.2	0.40	6.97 ✓	26.7	22,000 mL	
1315	400	21.54	0	13.76 ✓	0.856	14.2	0.40	6.97	21.1	24,000 mL	
1320	400	21.54	0	13.75 ✓	0.858 ✓	11.9	0.38	6.97	27.5	28,000 mL	

Sample ID:

Sample Time:

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

844
839
849

24.3
26.76
21.87

.47
.51
.42

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:

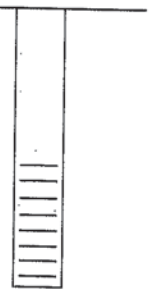
Project Name: South Dayton Pump
Ref. No.: 038443

Date: 10/18/18
Personnel: A. Schunk

Monitoring Well Data:

Well No.: MW-233 (2 of 2)
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 21.54



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1325	400	21.54	0	13.75	0.860	8.87	0.37	6.97	27.8	30,000mL	
1330	400	21.54	0	13.74	0.861	7.16	0.37	6.97	28.1	32,000mL	
1335	400	21.54	0	13.77 ✓	0.862 ✓	6.74	0.37 ✓	6.96 ✓	28.3 ✓	34,000mL	
1340	400	21.54	0	13.78 ✓	0.864 ✓	5.37	0.37 ✓	6.97 ✓	28.5	36,000mL	
1345	400	21.54	0	13.76 ✓	0.865 ✓	4.91 ✓	0.37 ✓	6.97	28.9	38,000mL	

Sample ID: GW-38443-101818-AS-225

Sample Time: 1355

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 500 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be

Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 38443-360

Date: 10/24/18
Personnel: J. Cook

Monitoring Well Data:
Well No.: MW-223B
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10'
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 26.63

Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
1335	350	26.63	—	16.49	0.500	52.0	5.51	6.79	83.7		
1340	350	26.63	—	15.92	0.488	52.5	4.00	6.75	50.2		
1345	350	26.63	—	15.65	0.485	58.8	2.22	6.81	3.0		
1350	350	26.63	—	15.48	0.481	79.4	1.32	6.91	-48.2		
1355	350	26.63	—	15.41	0.481	77.2	1.24	6.92	-53.9		
1400	350	26.63	—	15.29	0.480	88.3	1.15	6.96	-71.4		
1405	350	26.63	—	15.50	0.484	90.4	0.95	6.99	-80.0		
1410	350	26.63	—	15.24	0.483	80.5	0.92	7.03	-86.6		
1415	350	26.63	—	15.14	0.481	66.6	0.94	7.05	-93.6		
1420	350	26.63	—	15.12	0.481	58.6	0.93	7.06	-96.7		
1425	350	26.63	—	15.12	0.481	60.2	0.88	7.08	-99.8		

Sample ID: GW-38443-102418-JC-226
Sample Time: 1430

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

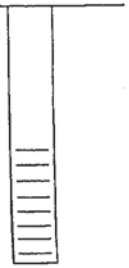
Monitoring Well Record for Low-Flow Purging
(Form SP-09)

Project Data:
Project Name: South Dayton Dump
Ref. No.: 38440-360

Date: 10/25/18
Personnel: J. Cox

Monitoring Well Data:
Well No.: MW-223A
Vapour PID (ppm):
Measurement Point:
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft): 10
Depth to Pump Intake (m/ft)[1]:
Well Diameter, D (cm/in):
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 26.39



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0930	500	26.39	—	14.90	0.633	252	4.80	5.95	144.1		
0935	500	26.39	—	15.32	0.677	16.7	0.90	6.32	120.0		
0940	500	26.39	—	15.46	0.691	4.39	0.65	6.58	104.7		
0945	500	26.39	—	15.47	0.695	3.49	0.66	6.68	99.7		
0950	500	26.39	—	15.47	0.696	1.92	0.61	6.77	94.8		
0955	500	26.39	—	15.49	0.696	1.42	0.58	6.78	94.3		

Sample ID: GW-38443-102518-JC-227
Sample Time: 1000

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm.
For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Appendix B.3
Stabilization Parameters – Temporary Monitoring Wells

Table B3.1

Stabilization Parameters - May 2018
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Sample ID	Screened Interval (ft bgs)	Time	Flow Rate (mL/min)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
BH03-18	5/7/2018	WG-38443-050718-GL-001	27.5-31.5	15:02	200	15.28	1.349	>1000	3.31	6.67	118.6
				15:07	200	14.86	1.344	>1000	2.18	6.70	133.4
				15:12	200	14.33	1.341	843	1.50	6.74	148.8
				15:17	200	14.29	1.337	576	1.27	6.76	155.0
				15:22	200	14.26	1.335	310	1.16	6.80	151.8
				15:27	200	14.23	1.331	172	1.32	6.82	161.3
				15:32	200	14.28	1.332	108	1.19	6.85	164.6
BH02-18	5/8/2018	WG-38443-050818-GL-002	27.5-31.5	8:55	200	12.93	1.473	>1000	1.45	6.52	92.9
				9:00	200	12.78	1.471	>1000	1.21	6.52	84.1
				9:05	200	12.61	1.463	>1000	1.18	6.61	75.2
				9:10	200	12.44	1.458	>1000	1.27	6.67	70.8
				9:15	200	12.47	1.454	849	1.18	6.67	70.3
				9:20	200	12.51	1.449	663	1.25	6.69	70.5
				9:25	200	12.54	1.446	500	1.27	6.69	71.2
BH01-18	5/8/2018	WG-38443-050818-GL-003	26-30	10:19	200	14.01	1.247	>1000	0.87	6.89	191.2
		WG-38443-050818-GL-004		10:24	200	13.82	1.238	>1000	1.01	6.82	178.5
				10:29	200	13.75	1.230	>1000	0.86	6.79	169.5
				10:34	200	13.79	1.224	>1000	0.89	6.77	172.9
				10:39	200	13.80	1.217	958	0.78	6.77	178.0
				10:44	200	13.72	1.212	737	0.78	6.76	180.1
				10:49	200	13.65	1.206	405	0.80	6.76	181.3
				10:54	200	13.70	1.198	232	0.84	6.75	179.2
				10:59	200	13.69	1.194	151	0.86	6.76	178.7
				11:04	200	13.71	1.191	132	0.87	6.75	177.7
BH04-18	5/8/2018	WG-38443-050818-GL-005	25.6-29.5	13:51	200	17.69	1.472	>1000	1.51	6.56	191.6
				13:56	200	17.50	1.466	>1000	1.41	6.58	194.3
				14:01	200	17.34	1.463	>1000	1.35	6.59	197.0
				14:06	200	17.45	1.445	736	1.3	6.61	198.1
				14:11	200	17.79	1.432	370	1.29	6.63	198.2
				14:16	200	18.27	1.420	180	1.27	6.63	194.6
				14:21	200	18.51	1.420	129	1.29	6.64	190.1
				14:26	200	18.46	1.418	178	1.28	6.64	189.0
BH06-18	5/10/2018	WG-38443-051018-GL-007	28-32	8:59	200	19.05	1.855	>1000	0.59	7.10	264.1
				9:04	200	18.77	1.853	>1000	0.49	7.14	273.5
				9:09	200	18.65	1.849	>1000	0.48	7.17	280.2
				9:14	200	18.67	1.847	455	0.57	7.19	284.4
				9:19	200	18.59	1.846	173	0.81	7.20	286.3
				9:24	200	18.60	1.846	126	0.68	7.21	287.3
BH07-18	5/10/2018	WG-38443-051018-GL-008	28-32	10:39	200	15.69	1.827	>1000	0.50	6.90	305.1
				10:44	200	15.55	1.821	>1000	0.45	6.88	302.5
				10:49	200	15.23	1.815	>1000	0.40	6.88	297.3
				10:54	200	15.12	1.797	>1000	0.41	6.88	294.0
				10:59	200	15.28	1.793	762	0.45	6.89	292.5
				11:04	200	15.34	1.788	512	0.46	6.90	290.8
				11:09	200	15.30	1.785	364	0.49	6.91	288.8
BH05-18	5/10/2018	WG-38443-051018-GL-009	27.5-31.5	12:04	200	17.77	1.679	>1000	0.70	7.14	299.4
				12:09	200	17.60	1.672	>1000	0.58	7.12	299.3
				12:14	200	17.63	1.662	406	0.55	7.11	299.4
				12:19	200	17.47	1.659	183	0.55	7.09	300.6
				12:24	200	17.43	1.651	89.2	0.54	7.09	301.7
				12:29	200	17.37	1.647	63.9	0.54	7.08	301.7
				12:34	200	17.34	1.647	58.8	0.53	7.08	301.8
BH08-18	5/11/2018	WG-38443-051118-GL-010	22.3-26.3	8:54	200	18.14	1.444	>1000	0.34	6.58	246.0
				8:59	200	17.96	1.453	>1000	0.33	6.63	246.0
				9:04	200	17.70	1.447	>1000	0.48	6.65	245.4
				9:09	200	17.45	1.439	>1000	0.59	6.64	246.0
				9:14	200	17.30	1.432	>1000	0.56	6.62	246.8
				9:19	200	17.18	1.429	396	0.53	6.63	246.5
				9:24	200	16.91	1.429	202	0.51	6.63	242.7
				9:29	200	16.88	1.425	171	0.50	6.63	243.6

Table B3.1

Stabilization Parameters - May 2018
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Sample ID	Screened Interval (ft bgs)	Time	Flow Rate (mL/min)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
BH10-18	5/11/2018	WG-38443-051118-GL-011	38-42	12:59	300	19.33	1.693	>1000	0.18	7.00	39.1
				13:04	300	18.30	1.671	>1000	0.17	6.83	1.6
				13:09	300	17.69	1.658	>1000	0.22	6.79	2.8
				13:14	300	17.34	1.642	>1000	0.27	6.77	24.4
				13:19	300	17.09	1.646	428	0.29	6.77	36.1
				13:24	300	17.04	1.644	150	0.32	6.78	42.0
				13:29	300	16.90	1.645	109	0.33	6.79	46.2
				13:34	300	16.92	1.644	73.0	0.34	6.79	47.2
				13:39	300	17.04	1.645	54.4	0.34	6.80	44.8
BH09-18	5/14/2018	WG-38443-051418-GL-012	21.5-25.5	12:41	250	17.36	1.214	>1000	0.14	6.55	-76.8
				12:46	250	17.05	1.218	>1000	0.17	6.64	-81.2
				12:51	250	16.57	1.220	236	0.21	6.75	-83.1
				12:56	250	16.19	1.223	185	0.27	6.79	-86.8
				13:01	250	15.98	1.220	261	0.29	6.80	-85.7
				13:06	250	16.83	1.220	92.6	0.40	6.85	-88.5
				13:11	250	17.05	1.221	46.0	0.39	6.89	-88.9
				13:16	250	17.07	1.223	28.8	0.38	6.93	-90.0
				13:21	250	17.00	1.221	20.9	0.37	6.94	-91.1
BH20-18	5/15/2018	WG-38443-051518-GL-013	27.3-31.3	8:15	200	17.21	1.738	124	0.84	6.55	-63.4
		WG-38443-051518-GL-014		8:20	200	17.02	1.730	66.1	0.69	6.61	-60.8
				8:25	200	17.18	1.729	48.3	0.95	6.67	-69.3
				8:30	200	17.17	1.731	33.7	0.87	6.70	-71.8
BH13-18	5/18/2018	WG-38443-051818-GL-015	30.5-34.5	10:49	200	17.61	1.548	>1000	0.21	6.76	115.3
				10:54	200	17.04	1.609	>1000	0.30	6.77	84.1
				10:59	200	16.52	1.625	>1000	0.48	6.79	55.2
				11:04	200	16.06	1.625	>1000	0.51	6.79	41.0
				11:09	200	16.08	1.618	936	0.55	6.80	36.7
				11:14	200	16.11	1.623	271	0.62	6.83	30.3
				11:19	200	16.07	1.624	167	0.69	6.84	27.6
				11:24	200	15.97	1.623	95.6	0.81	6.86	23.4
				11:29	200	16.11	1.621	63.8	0.78	6.88	22.0
				11:34	200	16.20	1.625	45.6	0.80	6.89	21.6
BH12-18	5/18/2018	WG-38443-051818-GL-016	30.5-.34.5	12:49	200	17.12	1.680	>1000	1.28	6.97	35.6
				12:54	200	16.14	1.670	>1000	0.90	6.90	35.9
				12:59	200	15.92	1.653	394	0.69	6.84	39.0
				13:04	200	15.87	1.644	127.0	0.54	6.82	43.4
				13:09	200	15.78	1.641	70.4	0.51	6.81	47.3
				13:14	200	15.73	1.639	35.6	0.49	6.81	50.5
				13:19	200	15.64	1.638	21.4	0.45	6.80	52.6
				13:24	200	15.68	1.334	18.7	0.47	6.79	53.5

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B3.2

Stabilization Parameters - August to September 2018
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
BH11-18	7/31/2018	13:55	JC-018	30-34	18.52	1.658	188	2.91	6.71	76.4
		14:00			18.11	1.641	76.6	2.70	6.78	70.5
		14:05			18.09	1.637	49.5	2.67	6.80	70.3
		14:10			18.01	1.632	45.3	2.67	6.80	70.7
		14:15			18.10	1.633	36.7	2.64	6.81	70.6
		14:20			17.99	1.630	26.8	2.69	6.81	72.0
		14:25			17.97	1.627	17.7	2.70	6.82	74.7
		14:30			17.95	1.625	16.3	2.70	6.82	75.3
		14:35			17.89	1.623	13.5	2.68	6.82	75.7
		14:40			18.02	1.625	12.1	2.67	6.82	76.3
		14:45			18.00	1.627	11.1	2.67	6.82	76.4
	8/2/2018	n/a	JC-019	34-43	Not available due to minimal recharge.					
BH14-18	9/17/2018	13:00	JC-171	35-40	18.06	0.683	308	0.94	7.05	-143.9
		13:05			17.85	0.683	465	0.83	7.07	-147.6
		13:10			17.57	0.682	625	0.73	7.09	-149.8
		13:15			17.36	0.682	>1000	0.57	7.13	-154.1
		13:20			17.19	0.682	>1000	0.50	7.16	-157.0
		13:25			17.18	0.682	>1000	0.52	7.15	-145.0
BH15-18	9/4/2018	11:05	JC-152 / JC-153	25-30	22.32	0.762	>1000	1.84	6.62	17.7
		11:10			22.60	0.763	>1000	1.96	6.62	10.1
		11:15			22.42	0.764	986	2.17	6.67	-3.6
		11:20			23.34	0.764	819	2.23	6.66	-8.4
		11:25			22.88	0.766	730	2.30	6.69	-13.4
		11:30			24.36	0.785	>1000	2.27	6.67	-15.8
		11:35			23.99	0.803	>1000	2.38	6.67	-13.7
		11:40			22.76	0.799	>1000	2.43	6.71	-12.1
		11:45			22.18	0.795	>1000	2.46	6.74	-11.3
		11:50			22.15	0.789	>1000	2.45	6.73	-11.1
BH16-18	9/4/2018	14:30	JC-151	25-30	21.50	0.731	432	26.74	6.70	40.8
		14:35			21.51	0.737	421	14.80	6.94	33.8
		14:40			21.96	0.734	392	4.74	7.00	29.3
		14:45			21.93	0.732	269	1.98	7.03	26.7
		14:50			21.32	0.733	217	1.67	7.06	24.9
		14:55			20.74	0.732	232	1.59	7.10	21.1
		15:00			21.71	0.731	177	1.80	7.05	18.8

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B3.3

Stabilization Parameters - January 2019
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
BH18-19	1/14/2019	11:15	JC-001/002	14.5-18.5	13.08	0.898	773	12.40	7.05	162.4
		11:20			12.78	0.901	441	11.10	7.06	152.2
		11:25			12.59	0.908	211	9.45	7.07	144.1
		11:30			12.52	0.919	115	6.68	7.08	134.6
		11:35			12.49	0.923	53.1	8.80	7.08	121.7
		11:40			12.52	0.923	35.6	8.61	7.07	117.2
		11:45			12.46	0.923	21.9	8.31	7.08	112.3
		11:50			12.41	0.923	15.1	6.63	7.08	108.0
		11:55			12.36	0.924	10.8	6.87	7.08	106.6
		12:00			12.33	0.923	10.5	6.43	7.08	106.9
BH19-19	1/14/2019	14:25	JC-003	15-19	13.02	0.891	900	5.49	6.92	113.2
		14:30			13.16	0.899	332	5.91	6.90	108.4
		14:35			13.15	0.897	269	6.22	6.90	98.1
		14:40			13.13	0.903	190	6.08	6.89	92.0
		14:45			13.12	0.905	114	5.99	6.89	87.5
		14:50			13.14	0.906	85.2	5.86	6.88	82.9

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Appendix B.4
Stabilization Parameters – VAS

Table B4.1

Stabilization Parameters - VAS15b
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS15b	12/13/2017	10:15	KWM-001	100-110	14.51	7.22	0.841	4.9	647.2	very clear
		10:20			14.56	5.12	0.840	4.8	-131.2	very clear
		10:25			14.56	6.72	0.839	4.7	-221.3	very clear
		10:30			14.56	6.51	0.839	2.9	-232.9	very clear
		14:15	KVM-002	110-120	14.56	5.57	0.818	21.3	457.9	very clear
		14:20			14.56	8.72	0.812	6.0	602.3	very clear
		14:25			14.56	9.99	0.816	3.7	857.6	very clear
		14:30			14.56	9.99	0.816	3.2	955.6	very clear
	12/14/2017	9:20	KVM-003	120-130	14.56	-	0.809	22.3	219.6	very clear
		9:25			14.56	-	0.788	19.8	209.9	very clear
		9:30			14.56	-	0.787	9.6	202.0	very clear
		9:35			14.56	-	0.786	10.0	216.0	very clear
		14:50	KWM-004	130-140	14.56	7.38	0.898	24.3	-103.5	5.61
		14:55			14.56	7.31	0.897	8.8	-124.1	5.49
		15:00			14.56	7.28	0.896	6.1	-136.4	3.93
		15:05			14.56	7.29	0.897	6.7	-130.1	3.22
	12/15/2017	11:30	KWM-005	140-150	14.56	7.33	0.905	3.3	-113.6	19.30
		11:35			14.56	7.30	0.905	3.2	-128	8.73
		11:40			14.56	7.30	0.905	3.3	-134.1	6.56
		11:45			14.56	7.30	0.905	2.9	-138.2	5.32

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential
-	Issues with pH probe and flow cell latch broken. GHD obtained new YSI meter.

Table B4.2

Stabilization Parameters - VAS31
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH (units)	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS31	1/19/2018	10:10	KVM-043	35-40	14.07	7.13	1.087	44.6	-45.7	Turbid
		10:15			14.04	7.11	1.091	52.5	-4.6	Cloudy
		10:20			14.00	7.14	1.090	34.1	-27.0	Clear
		10:25			14.00	7.13	1.089	22.1	-39.1	Clear
		11:30	KVM-044	40-45	15.58	7.38	1.158	38.3	-164.3	Cloudy
		11:35			15.62	7.38	1.158	34.6	-134	Clear
		11:40			15.63	7.36	1.160	39.3	-146.0	Clear
		13:00			Formation went dry, allowed time for recharge and collected groundwater sample at 13:00					
	1/22/2018	9:00	KVM-045	45-50	14.05	-	1.02	-	-373.3	Clear
		9:05			14.05	7.90	1.02	-	-390	Clear
		9:10			14.06	7.91	1.02	25.5	-393.6	Clear
		9:15			14.05	7.86	1.02	17.6	-405.1	Clear
		11:30	KVM-046	50-60	13.90	7.35	1.141	47.9	-21.5	Clear
		11:35			13.89	7.32	1.141	27.9	-11.7	Clear
		11:40			13.84	7.32	1.141	21.4	-8.0	Clear
		11:45			13.85	7.31	1.143	18.9	-15.3	Clear
			KVM-047	60-70	Formation went dry, allowed time for recharge and collected groundwater sample at 15:25					
	1/23/2018	10:45	KVM-048	70-80	13.37	7.41	1.175	63.7	-28.6	Clear
		10:50			13.37	7.41	1.169	31.4	-36.2	Clear
		10:55			13.42	7.40	1.169	24.7	-40.2	Clear
		11:00			13.39	7.40	1.168	16.6	-49.8	Clear
		14:45	KVM-049	80-90	13.52	7.44	1.212	58.5	-48.2	Clear
		14:50			13.56	7.47	1.212	35.7	-64.7	Clear
		14:55			13.56	7.45	1.214	23.3	-73.1	Clear
		15:00			13.54	7.44	1.212	16.6	-65.0	Clear
	1/24/2018	10:00	KVM-050	90-100	13.50	7.67	1.231	45.3	-153.3	Clear
		10:05			13.46	7.69	1.231	32.0	-185.7	Clear
		10:10			13.45	7.67	1.229	26.1	-192.2	Clear
		10:15			13.47	7.70	1.230	21.8	-231.1	Clear

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.3

Stabilization Parameters - VAS32
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS32	1/8/2018	9:15	KVM-23	35-40	14.89	pH sensor not working	1.227	19.3	59.2	Turbid/Brown
		9:20			14.88		1.227	17.6	121.3	Turbid/Brown
		9:25			14.87		1.227	16.5	307.6	Turbid/Brown
		9:30			14.88		1.229	17.0	369.8	Turbid/Brown
		10:40	KVM-24	40-45	15.02	-	1.367	23.3	-127.8	49.6
		10:45			14.94	6.82	1.361	19.9	-189.3	41.6
		10:50			14.82	6.91	1.347	13.8	-177.6	3.72
		10:55			14.8	6.79	1.342	13.4	-165.8	2.77
		11:55	KVM-25	45-50	14.86	7.61	1.223	41.5	-98.4	Turbid
		12:00			14.90	7.64	1.223	22	-176.9	Turbid
		12:05			14.91	7.51	1.222	17.8	-134.5	Turbid
		12:10			14.92	7.63	1.222	15.4	-118.5	Turbid
		13:20	KVM-26	50-60	15.15	7.17	1.377	37.3	-293.6	Turbid
		13:25			15.05	7.30	1.369	15.0	-336.0	Turbid
		13:30			15.00	7.24	1.361	11.3	-328.3	Turbid
		13:35			14.95	7.28	1.360	11.0	-362.9	Turbid
		14:30	KVM-27	60-70	15.22	7.50	1.422	39.0	-379.4	Turbid/Brown
		14:35			15.18	7.41	1.439	10.3	-404.2	Turbid/Brown
		14:40			15.15	7.31	1.445	9.3	-365.4	Turbid/Brown
		14:45			15.09	7.24	1.451	9.4	-329.7	Turbid/Brown
	1/9/2018	8:25	KVM-28	70-80	14.91	7.46	1.482	15.2	-385.6	Turbid/Grey
		8:30			14.93	4.45	1.460	14.0	-366.9	Turbid/Grey
		8:35			14.92	7.43	1.474	10.6	-370.4	Turbid/Grey
		8:40			14.93	7.41	1.475	10.5	-377.3	Turbid/Grey
		9:55	KVM-29	80-90	14.86	7.51	1.556	18.0	-384.1	Turbid/Brown
		10:00			14.85	7.47	1.555	11.7	-402.2	Turbid/Brown
		10:05			14.79	7.49	1.555	9.6	-368.2	Turbid/Brown
		10:10			14.76	7.45	1.554	9.3	-407.1	Turbid/Brown
		11:25	KVM-30	90-100	14.65	7.49	1.557	23.1	-304	Turbid/Brown
		11:30			14.65	7.53	1.574	10.1	-412.7	Turbid/Brown
		11:35			14.63	7.54	1.572	8.6	-378.2	Turbid/Brown
		11:40			14.61	7.53	1.572	8.2	-394.4	Turbid/Brown

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.4

Stabilization Parameters - VAS33
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS33	1/10/2018	8:45	KVM-31	25-30	17.45	7.07	1.338	30.5	-97	175
		8:50			17.55	7.03	1.339	16.4	-102.5	76.8
		8:55			17.58	7.01	1.339	12.9	-104.5	75.4
		9:00			17.57	7.01	1.339	12.2	-113.8	44.7
		9:45	KVM-32	30-35	17.22	7.14	1.474	10.3	-101.6	Turbid/Brown
		9:50	KVM-33		17.20	7.10	1.474	8.6	-95.7	Turbid/Brown
		9:55			17.21	7.09	1.474	8.0	-93.8	Turbid/Brown
		10:00			17.19	7.08	1.474	7.5	-90.4	Turbid/Brown
		13:05	KVM-34	35-40	16.96	7.19	1.468	20.2	-88.1	20.4
		13:10			16.96	7.19	1.471	14.7	-90.0	17.6
		13:15			16.97	7.18	1.469	11.3	-89.8	15.1
		13:20			16.98	7.17	1.468	10.3	-89.4	9.15
		14:50	KVM-35	40-45	16.59	7.18	1.413	10.6	-120.6	5.38
		14:55			16.61	7.18	1.422	7.2	-143.7	6.05
		15:00			16.62	7.19	1.429	6.5	-153.5	4.85
		15:05			16.63	7.19	1.426	5.9	-164.9	4.98
	1/11/2018	8:20	KVM-36	45-50	16.36	7.33	1.447	34.3	-225.8	63.5
		8:25			16.30	7.40	1.450	15.7	-294.7	37.0
		8:30			16.30	7.41	1.452	11.3	-312.1	21.6
		8:35			16.30	7.38	1.453	7.8	-321.3	18.8
		10:30	KVM-37	50-60	16.02	7.23	1.350	31.0	-70.1	4.77
		10:35			15.92	7.19	1.364	13.7	-119.4	3.31
		10:40			15.92	7.30	1.365	8.5	-180.0	2.65
		10:45			15.92	7.29	1.367	6.6	-223.5	2.56
		13:05	KVM-38	60-70	16.14	6.17	1.385	26.9	-37.8	28.3
		13:10			16.13	6.25	1.385	9.9	-71.2	27.1
		13:15			16.13	-	1.386	7.6	-68.1	24.8
		13:20			16.14	-	1.386	6.4	-205.2	25.1
	1/16/2018	9:55	KVM-39	70-80	15.53	7.49	1.261	27.2	-267.8	32.4
		10:00	KVM-40		15.49	7.42	1.263	23.4	-305.2	27.2
		10:05			15.59	7.34	1.264	22.3	-328.0	24.1
		10:10			15.48	7.36	1.266	22.4	-324.8	20.5
		13:45	KVM-41	80-90	15.25	7.20	1.131	25.7	-48.0	10.30
		13:50			14.93	7.16	1.133	18.6	-57.6	5.95
		13:55			15.05	7.12	1.133	17.2	-63.7	6.34
		14:00			15.03	7.11	1.133	16.6	-69.8	6.21
	1/17/2018	12:40	KVM-42	90-100	15.16	7.48	1.108	35.7	-236.5	Clear
		12:45			15.20	7.51	1.107	30.0	-287.0	Clear
		12:50			15.19	7.50	1.108	26.2	-305.3	Clear
		12:55			15.19	7.46	1.106	20.8	-323.1	Clear

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.5

Stabilization Parameters - VAS34
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH (units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
VAS-34	2/16/2018	10:30	KVM-78	30-35	16.85	6.99	2.576	3.32	245.3	3.96
		10:35			16.84	6.99	2.580	1.15	245.0	3.44
		10:40			16.82	6.99	2.582	1.05	245.6	2.75
		10:45			16.83	4.99	2.592	0.92	246.7	2.36
		12:20	KVM-79	35-40	16.87	7.62	2.630	2.39	-99.7	143
		12:25			16.91	7.58	2.664	1.14	-178.9	58.4
		12:30			16.63	7.57	2.676	1.02	-138.3	45.8
		12:35			16.85	7.56	2.675	0.99	-147.9	79.4
		12:40			16.72	7.54	2.679	0.92	-153.9	35.5
	2/19/2018		KVM-80	40-45	Formation went dry, allowed time for recharge and collected groundwater sample at 10:20					
		12:35	KVM-81	45-50	16.85	7.18	2.535	3.12	-1.1	16.7
		12:40			16.78	7.25	2.539	1.67	-31.9	16.7
		12:45			16.77	7.29	2.542	1.18	-61.9	15.3
		12:50			16.75	7.30	2.544	0.86	-84.9	11.5
		12:55			16.77	7.31	2.543	0.83	-90.4	10.9
	2/20/2018	8:00	KVM-82	50-60	16.29	7.69	2.361	1.22	-234.2	14.80
		8:05			16.26	7.76	2.368	1.02	-293.7	5.56
		8:10			16.25	7.96	2.375	0.87	-350.1	3.30
		8:15			1627	7.97	2.377	1.02	-345.1	4.50
		8:20			16.28	8.03	2.380	0.89	-341.9	5.99
		10:20	KVM-83	60-70	16.09	7.07	2.096	0.60	-36.2	58.0
		10:25			16.11	7.05	2.155	0.63	-90.7	11.0
		10:30			16.13	5.48	2.190	0.56	-40.7	5.79
		10:35			16.14	5.51	2.090	0.57	-36.9	5.28
		10:40			16.13	5.21	2.227	0.59	-21.5	5.28
		13:15	KVM-84	70-80	16.34	7.71	1.785	1.37	-110.1	39.0
		13:20			16.38	7.72	1.787	0.95	-121.9	40.9
		13:25			16.26	7.72	1.784	0.63	-133.5	53.1
		13:30			16.31	7.67	1.790	0.59	-133.5	51.7
		13:35			16.27	7.68	1.792	0.55	-136.7	59.8

Table B4.5

Stabilization Parameters - VAS34
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH (units)	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
VAS-34	2/21/2018	8:00	KVM-85	80-90	15.61	7.78	1.689	0.49	-191.3	65.2
		8:05			15.57	7.74	1.690	0.48	-190.8	48.8
		8:10			15.56	7.68	16.880	0.44	-183.8	47.2
		8:15			15.54	7.61	1.689	0.41	-180.2	52.4
		8:20			15.53	7.60	1.690	0.41	-180.1	37.2
		10:35	KVM-86	90-100	15.55	7.75	1.550	0.73	-150.5	383
		10:40			15.56	7.74	1.550	0.65	-152.9	220
		10:45			15.59	7.70	1.543	0.65	-155.5	174
		10:50			15.5	7.69	1.549	0.61	-158.3	104
		10:55			15.43	7.67	1.546	0.6	-164.4	108
		13:50	KVM-87	100-110	15.06	7.78	1.516	0.86	-139.9	114
		13:55	KVM-88		15.03	7.76	1.515	0.69	-145.6	99.6
		14:00			15.03	7.74	1.515	0.54	-153.9	72.6
		14:05			15.04	7.77	1.508	0.49	-163.8	84.5
	2/22/2018	8:25	KVM-90	110-120	14.77	7.88	1.577	0.43	-244.1	32.5
		8:30			14.69	7.78	1.578	0.41	-222.4	54.8
		8:35			14.78	7.75	1.578	0.38	-245.5	70.0
		8:40			14.88	7.69	1.580	0.37	-232.5	71.5
		8:45			14.85	7.70	1.579	0.37	-235.7	81.5
		11:40	KVM-91	120-130	14.9	8.27	0.841	4.57	65.0	265
		11:45			14.92	8.26	0.843	4.17	63.0	307
		11:50			14.91	8.19	0.866	3.54	56.4	310
		11:55			15.00	8.15	0.885	2.84	36.3	345
		12:00			14.97	8.13	0.895	2.74	20.2	348
		14:45	KVM-92	130-140	14.63	7.85	1.633	2.47	-177.3	91.6
		14:50			14.62	7.84	1.636	2.45	-188.1	91.4
		14:55			14.61	7.82	1.638	2.76	-198.0	108
		15:00			14.59	7.82	1.641	2.52	-202.5	117
	2/23/2018	8:40	KVM-94	140-150	14.78	7.86	1.624	0.49	-200.0	57.1
		8:45			14.74	7.85	1.626	0.46	-214.0	16.2
		8:50			14.74	7.80	1.628	0.35	-216.5	7.66
		8:55			14.74	7.76	1.63	0.35	-213.4	5.69
		9:00			14.74	7.72	1.632	0.33	-213.4	6.67

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

KVM-89 = Ambient Air Sample
KVM-93 = equipment blank (small pump)

Table B4.6

Stabilization Parameters - VAS35
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS35	12/18/2017	9:45	KVM-6	20-25	16.86	6.24	1.786	57.8	-65.3	Cloudy
		9:50			16.72	6.30	1.787	56.8	-72.3	Cloudy
		9:55			16.64	6.33	1.783	53.8	-74.4	Clear
		10:00			16.61	6.33	1.784	53.4	-75.0	Clear
		10:45	KVM-7	25-30	15.87	6.92	1.313	4.7	-138.4	999
		10:50			15.86	6.90	1.314	3.3	-141.1	999
		10:55			15.88	6.89	1.311	2.7	-142.7	976
		11:00			15.86	6.88	1.309	2.6	-143.5	768
				30-35	Silty Clay Till - Water sample not collected due to geology					
		12:45	KVM-8	35-40	15.09	6.94	1.220	7.7	-125.8	999
		12:50			15.03	6.89	1.217	3.9	-131.4	999
		12:55			15.03	6.87	1.215	2.9	-134.2	999
		13:00			15.04	6.86	1.213	2.5	-136.5	999
		15:00	KVM-9	40-45	14.87	6.87	1.181	17.0	-84.5	21.60
		15:05			14.90	6.99	1.183	5.3	-120.5	16.40
		15:10			14.89	7.01	1.184	4.2	-126.3	15.20
	12/19/2017	8:25	KVM-10	45-50	14.41	7.39	1.138	52.4	-83.3	3.52
		8:30	KVM-11		14.42	7.26	1.339	8.5	-110	2.79
		8:35			14.42	7.21	1.339	5.6	-117.6	2.86
		8:40			14.42	7.18	1.339	4.5	-120.5	2.31
		12:40	KVM-12	50-60	14.14	7.34	1.024	9.2	-99.4	4.61
		12:45			14.13	7.16	1.025	4.3	-106.1	2.53
		12:50			14.12	7.10	1.025	3.2	-109.3	2.75
		12:55			14.12	7.11	1.025	2.6	-111.4	3.26
		15:30	KVM-13	60-70	14.06	7.37	1.008	7.1	-97.5	3.01
		15:35			14.08	7.27	1.008	5.1	-103.9	2.67
		15:40			14.07	7.21	1.008	4.0	-107.5	2.50
		15:45			14.06	7.21	1.008	3.5	-109.6	2.52

Table B4.6

Stabilization Parameters - VAS35
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (°C)	pH	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS35	12/20/2017	10:00	KVM-14	70-80	13.69	7.54	0.980	16.3	-113.3	4.60
		10:05			13.84	7.25	0.978	6.6	-125.6	3.58
		10:10			13.65	7.21	0.976	5.7	-130.1	3.43
		10:15			13.67	7.20	0.975	4.9	-132.9	3.37
		12:20	KVM-15	80-90	13.90	7.42	1.011	6.3	-134.8	Clear
		12:25			13.89	7.30	1.009	3.8	-138.6	Clear
		12:30			13.88	7.30	1.009	3.1	-141.4	Clear
		12:35			13.89	7.25	1.011	2.6	-143.7	Clear
		15:00	KVM-16	90-100	14.10	7.22	0.963	6.4	-151.2	Clear
		15:05			14.12	7.19	0.964	5.4	-154.7	Clear
		15:10			14.09	7.15	0.964	4.4	-158.4	Clear
		15:15			14.11	7.16	0.965	4.1	-160.4	Clear
	12/21/2017	8:40	KVM-17	100-110	14.03	7.46	0.941	9.2	-153.7	Clear
		8:45			14.00	7.38	0.948	6.1	-160.8	Clear
		8:50			13.98	7.30	0.945	4.7	-164.6	Clear
		8:55			13.95	7.34	0.947	3.8	-167.5	Clear
		11:35	KVM-18	110-120	14.22	7.52	0.902	4.2	-155.5	Clear
		11:40			14.22	7.26	0.904	3.6	-158.6	Clear
		11:45			14.21	7.33	0.905	3.2	-163.7	Clear
		11:50			14.20	7.31	0.905	2.9	-167.4	Clear
	1/3/2018	10:10	KVM-19	120-130	15.02	7.94	0.793	26.0	-428.4	11.0
		10:15			15.05	7.96	0.795	21.3	-505.9	15.2
		10:20			15.05	7.91	0.797	17.0	-550.6	17.6
		10:25			15.06	7.96	0.797	17.5	-564.8	16.3
		13:40	KVM-20 KVM-21	130-140	14.98	7.99	0.840	28.7	-516.7	89.4
		13:45			14.95	7.98	0.839	25.4	-552.0	77.7
		13:50			14.98	7.95	0.839	23.0	-565.0	88
		13:55			14.95	7.92	0.839	17.1	-543.2	87.3
	1/4/2018	8:35	KVM-22	140-150	15.03	8.29	0.874	21.2	-563.8	11.5
		8:40			15.00	8.16	0.876	18.0	-566.1	13.9
		8:45			15.01	8.10	0.877	15.7	-565.3	11.8
		8:50			15.02	8.03	0.876	13.1	-568.6	9.67

Notes:

°C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.7

Stabilization Parameters - VAS38
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH	Conductivity (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)
VAS-38	2/8/2018	9:10	KVM-071	35-40	12.51	8.12	0.830	1.10	-140.4	157
		9:15			12.51	8.08	0.300	1.12	-143.2	123
		9:20			12.55	8.05	0.831	1.14	-145.7	106
		9:25			12.59	8.03	0.831	0.96	-147.1	96.6
		11:00	KVM-072	40-45	12.51	8.34	0.791	55.1	-120.4	24.2
		11:05			12.33	8.36	0.798	17.5	-143.6	18.2
		11:10			12.32	8.34	0.798	11.4	-149.3	21.3
		11:15			12.33	8.33	0.798	10.0	-152.2	20.2
		13:40	KVM-073	45-50	12.24	7.89	0.881	3.10	-28.6	7.88
		13:45			12.29	8.02	0.881	1.78	-69.8	11.5
		13:50			12.26	8.09	0.878	1.08	-94.8	12.2
		13:55			12.19	8.11	0.877	0.98	-111.1	14.2
		14:00			12.27	8.11	0.877	0.90	-129.9	13.0
	2/9/2018	8:15	KVM-74	50-60	12.42	8.09	1.567	1.24	-136.8	78.1
		8:20			12.43	8.08	1.567	0.97	-151.9	37.5
		8:25			12.41	8.01	1.568	0.90	-153.0	20.6
		8:30			12.42	7.96	1.568	0.88	-159.1	17.9
		8:35			12.45	7.91	1.569	0.89	-157.8	11.7
				60-70	Water sample not collected due to geology					
	2/13/2018	9:35	KVM-75	70-80	12.46	7.86	1.653	0.79	-99.6	50.9
		9:40			12.45	7.89	1.655	0.66	-113.7	30.1
		9:45			12.41	7.89	1.658	0.87	-128.1	12.0
		9:50			12.44	7.89	1.658	0.52	-136.6	13.6
		9:55			12.40	7.88	1.657	0.60	-146.9	15.1
		13:05	KVM-76	80-90	12.39	8.12	1.378	1.69	-99.9	149
		13:10			12.32	8.11	1.378	0.93	-119.4	47.9
		13:15			12.30	8.09	1.379	0.75	-133.4	19.3
		13:20			12.34	8.07	1.377	0.69	-141.2	21.6
		13:25			12.36	8.06	1.378	0.70	-153.4	18.5
	2/14/2018	8:45	KVM-77	90-100	12.47	8.07	1.819	1.54	-157.7	9.38
		8:50			12.46	8.05	1.817	0.85	-170.5	9.80
		8:55			12.45	8.01	1.818	0.71	-178.5	15.9
		9:00			12.46	7.99	1.811	0.64	-183.3	23.5
		9:05			12.47	7.96	1.814	0.59	-182.2	25.5

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.8

Stabilization Parameters - VAS44
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS44	1/25/2018		KVM-51	25-30	Formation went dry, collected groundwater sample at 14:45					
	1/26/2018		KVM-52	30-35	Formation went dry, collected groundwater sample at 9:00					
	1/29/2018	9:50	KVM-53	35-40	15.54	7.53	1.182	21.6	-144.2	Clear
		9:55			15.57	7.51	1.184	17.5	-149.3	Clear
		10:00			15.57	7.50	1.187	15.6	-157.8	Clear
		10:05			15.61	7.50	1.188	14.5	-162.0	Clear
		11:25	KVM-54	40-45	15.11	7.41	1.136	28.1	-87.7	Clear
		11:30			15.12	7.40	1.137	24.3	-91.0	Clear
		11:35			15.16	7.39	1.140	18.6	-93.3	Clear
		11:40			15.15	7.39	1.141	15.6	-97.8	Clear
		14:40	KVM-55	45-50	14.72	7.48	1.316	24.6	-61.8	Clear
		14:45			14.69	7.48	1.318	20.8	-70.6	Clear
		14:50			14.71	7.46	1.321	18.4	-76.2	Clear
		14:55			14.71	7.46	1.322	17.0	-79.3	Clear
	1/30/2018	11:20	KVM-56	50-60	15.17	8.13	2.581	25.1	-147.0	Cloudy/Faint Odor
		11:25	KVM-57		15.10	8.13	2.565	21.9	-150.2	Cloudy/Faint Odor
		11:30			15.04	8.11	2.560	20.7	-148.5	Cloudy/Faint Odor
		11:35			15.06	8.11	2.550	20.7	-150.0	Cloudy/Faint Odor
				60-70	Silty Clay Till - Water sample not collected due to geology					
		15:05	KVM-58	70-80	14.82	7.57	1.043	21.1	-150.9	Cloudy
		15:10			14.81	7.56	1.043	18.4	-165.9	Cloudy
		15:15			14.85	7.56	1.043	17.0	-184.2	Cloudy
		15:20			14.85	7.56	1.043	16.0	-211.6	Cloudy

Table B4.8

Stabilization Parameters - VAS44
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	pH	Conductivity (mS/cm)	DO (%)	ORP (mV)	Turbidity (NTU)
VAS44	1/31/2018	10:10	KVM-59	80-90	14.43	7.51	1.032	70.9	-94.7	Clear
		10:15			14.47	7.61	1.033	32.6	-142.7	Clear
		10:20			14.52	7.64	1.032	25.1	-179.0	Clear
		10:25			14.52	7.65	1.032	20.6	-205.2	Clear
		14:30	KVM-60	90-100	14.46	7.61	1.033	26.1	-92.5	Clear
		14:35			14.45	7.62	1.032	20.2	-106.3	Clear
		14:40			14.43	7.63	1.033	16.5	-120.1	Clear
		14:45			14.42	7.63	1.032	15.0	-127.1	Clear
	2/1/2018	10:05	KVM-61	100-110	14.55	7.54	1.014	35.3	-70.2	Clear
		10:10			14.55	7.57	1.015	25.3	-81.9	Clear
		10:15			14.59	7.56	1.015	20.8	-94.5	Clear
		10:20			14.66	7.54	1.016	18.1	-99.2	Clear
		13:40	KVM-62	110-120	14.34	7.63	1.022	24.1	-105.7	Clear
		13:45			14.31	7.63	1.022	19.3	-119.6	Clear
		13:50			14.34	7.62	1.023	16.1	-134.6	Clear
		13:55			14.33	7.62	1.022	15.2	-140.1	Clear
	2/5/2018	10:10	KVM-63	120-130	14.21	7.58	1.024	25.3	-76.8	Clear
		10:15			14.21	7.59	1.025	19.5	-85.9	Clear
		10:20			14.26	7.53	1.025	23.7	-94.8	Clear
		10:25			14.31	7.53	1.025	19.3	-106.2	Clear
		14:15	KVM-64	130-140	14.11	7.64	1.021	21.2	-107.3	6.65
		14:20			14.12	7.63	1.022	18.3	-129.6	4.20
		14:25			14.13	7.64	1.022	18.1	-150.8	5.03
		14:30			14.11	7.63	1.023	18.2	-185.6	3.23
	2/6/2018	9:30	KVM-65	140-150	14.07	7.52	0.991	44.7	-83.3	10.2
		9:35			14.17	7.65	0.991	37.0	-137.7	14.6
		9:40			14.19	7.66	0.992	20.9	-188.6	17.4
		9:45			14.23	7.61	0.992	16.1	-205.3	11.4

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.9

Stabilization Parameters - VAS22b
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS22b	9/25/2018			50-60	Not sampled. Insufficient water production.					
		15:20	JC-183	60-70	18.72	0.985	13.5	0.28	7.20	-50.6
		15:25			18.82	0.988	14.0	0.15	7.14	-81.6
		15:30			18.73	0.984	16.6	0.13	7.13	-92.0
		15:35			18.50	0.967	12.7	0.22	7.14	-102.9
		15:40			18.49	0.953	16.3	0.38	7.15	-106.9
	9/26/2018	10:50	JC-184	70-80	17.09	0.845	10.6	0.44	7.22	-62.6
		10:55			17.60	0.854	7.90	0.14	7.20	-81.7
		11:00			18.01	0.869	14.7	0.14	7.21	-100.7
		11:05			17.96	0.872	14.4	0.12	7.21	-104.0
		11:10			17.94	0.874	11.9	0.10	7.21	-108.9
		14:00	JC-185	80-90	16.54	0.849	7.77	0.14	7.27	-110.4
		14:05			17.97	0.870	14.9	0.03	7.21	-112.1
		14:10			18.23	0.878	26.3	0.05	7.22	-115.2
		14:15			18.40	0.880	30.6	0.07	7.22	-109.2
	9/27/2018	9:45	JC-186 / JC-187	90-100	15.64	0.757	13.3	0.20	6.78	-26.2
		9:50			15.81	0.762	46.2	0.17	6.87	-58.1
		9:55			15.85	0.759	49.0	0.13	6.95	-92.4
		10:00			15.83	0.760	46.2	0.11	6.99	-106.1
		10:05			15.93	0.762	49.0	0.10	7.03	-118.4
		11:55	JC-188	100-110	17.02	0.714	257	0.18	7.24	-127.6
		12:00			17.44	0.702	314	0.24	7.24	-124.8
		12:05			17.38	0.699	363	0.25	7.25	-122.0
		12:10			17.30	0.696	457	0.23	7.25	-122.7
		14:00	JC-189	110-120	17.31	0.741	31.1	0.08	7.21	-103.9
		14:05			17.40	0.746	30.0	0.10	7.20	-118.2
		14:10			17.37	0.745	32.7	0.09	7.21	-124.4
	10/2/2018	11:15	JC-191	120-130	18.30	0.714	47.9	2.01	7.04	5.2
		11:20			19.37	0.732	41.3	0.44	7.04	-25.4
		11:25			19.83	0.740	45.6	0.36	7.07	-46.4
		11:30			20.57	0.753	50.7	0.34	7.10	-57.8
		11:35			19.57	0.737	59.6	0.34	7.11	-61.4
		11:40			19.90	0.741	71.5	0.31	7.12	-73.4
		11:45			19.83	0.742	74.4	0.29	7.12	-68.4
		14:20	JC-192	130-140	19.56	0.708	185	0.45	7.22	-98.3
		14:25			20.23	0.730	184	0.34	7.24	-109.2
		14:30			20.30	0.739	206	0.26	7.25	-116.6
		14:35			19.86	0.742	221	0.17	7.26	-127.1
	10/3/2018	8:40	JC-193	140-150	16.84	0.702	486	0.22	6.96	-94.6
		8:45			16.96	0.704	400	0.17	7.00	-103.1
		8:50			16.98	0.704	386	0.16	7.03	-111.8
		8:55			17.14	0.705	316	0.16	7.05	-116.7

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

- Issues with pH probe and flow cell latch broken. GHD obtained new YSI meter.

Stabilization Parameters - VAS36
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS-36	10/4/2018	10:55	JC-194	20-25	18.86	0.783	202	5.30	6.74	108.2
		11:00			19.73	0.822	161	5.07	6.82	90.5
		11:05			19.70	0.826	137	5.11	6.86	86.4
		11:10			19.89	0.831	69.9	4.87	6.89	82.7
		11:15			19.75	0.827	69.3	4.89	6.92	80.9
		12:40	JC-195	25-30	18.56	0.771	914	2.46	7.01	74.0
		12:45			18.84	0.788	>1000	2.17	7.02	56.4
		12:50			19.09	0.812	>1000	1.64	7.04	22.7
		12:55			19.12	0.812	>1000	1.54	7.06	-5.7
		13:00			19.05	0.815	>1000	1.39	7.07	-29.6
		14:15	JC-196	30-35	17.94	0.746	843	3.54	7.06	2.6
		14:20			17.89	0.744	274	3.58	7.06	4.8
		14:25			17.95	0.754	159	4.03	7.07	10.0
		14:30			18.38	0.752	146	4.47	7.07	13.7
	10/5/2018	8:00	JC-197	35-40	15.57	0.706	>1000	4.30	6.39	59.0
		8:05			15.46	0.710	>1000	2.81	6.58	1.3
		8:10			15.50	0.713	>1000	2.40	6.63	-14.3
		8:15			15.49	0.713	>1000	1.85	6.73	-41.9
		8:20			15.51	0.714	>1000	1.77	6.75	-46.6
		8:25			15.56	0.714	>1000	1.66	6.79	-54.3
		10:20	JC-199	40-45	15.95	0.724	728	0.22	6.91	-70.3
		10:25			15.98	0.726	547	0.19	6.91	-74.3
		10:30			15.96	0.725	471	0.19	6.92	-79.2
		12:00	JC-200	45-50	17.79	0.740	216	0.07	6.95	-84.0
		12:05			17.49	0.737	528	0.06	6.93	-88.9
		12:10			17.40	0.737	498	0.06	6.94	-92.2
		12:15			17.39	0.737	475	0.06	6.94	-93.4
	10/8/2018	9:45	JC-201	50-60	17.21	0.960	20.1	0.80	6.86	-66.7
		9:50			17.71	0.709	16.6	0.29	6.84	-83.3
		9:55			17.76	0.709	35.5	0.23	6.85	-92.1
		10:00			17.83	0.712	35.2	0.18	6.88	-97.8
		11:55	JC-202	60-70	18.92	0.741	217	0.04	7.06	-116.9
		12:00	JC-203FD		19.51	0.751	590	0.07	7.02	-120.5
		12:05			19.36	0.747	702	0.08	7.03	-121.1
		14:15	JC-204	70-80	17.86	0.716	43.3	0.01	7.07	-122.9
		14:20			17.63	0.714	107	0.00	7.09	-126.9
		14:25			17.62	0.713	190	0.01	7.10	-129.7
	10/9/2018	8:35	JC-205	80-90	17.17	0.695	>1000	2.42	6.49	-34.9
		8:40			17.06	0.693	>1000	1.54	6.56	-68.6
		8:45			17.07	0.689	>1000	0.94	6.65	-88.9
		8:55			17.28	0.685	>1000	0.37	6.81	-119.7
		9:00			17.20	0.684	>1000	0.29	6.84	-122.8
		9:05			17.35	0.686	>1000	0.21	6.87	-128.9
		12:25	JC-206	90-100	21.31	0.740	404	0.30	7.02	-115.3
		12:30			21.50	0.737	545	0.29	7.03	-117.0
		12:35			21.28	0.734	685	0.25	7.04	-118.5
	10/10/2018	9:30	JC-207	100-110	17.30	0.669	444	3.31	6.64	67.4
		9:35			17.70	0.670	260	1.36	6.71	-75.4
		9:40			17.80	0.671	253	0.86	6.81	-98.9
		9:45			17.74	0.670	198	0.51	6.89	-114.1
		9:50			17.81	0.669	154	0.37	6.94	-122.5
		9:55			17.75	0.666	125	0.27	6.98	-129.1
		14:05	JC-208	110-120	18.94	0.678	770	0.11	7.18	-150.3
		14:10	JC-209FD		19.41	0.652	993	0.33	7.13	-137.2
		14:15			19.34	0.641	947	0.39	7.14	-133.3
		14:20			19.40	0.633	943	0.41	7.16	-125.8
		14:25			19.38	0.634	933	0.40	7.16	-124.0
	10/11/2018	9:30	JC-211	120-130	15.63	0.627	794	0.39	6.76	-74.8
		9:35			15.66	0.628	464	0.29	6.81	-78.9
		9:40			15.70	0.629	353	0.24	6.84	-88.5
		12:30	JC-212	130-140	15.24	0.605	953	0.08	7.06	-115.0
		12:35			16.89	0.627	901	0.16	7.08	-120.6
		12:40			17.17	0.610	>1000	0.28	7.11	-119.9
		12:45			17.30	0.587	>1000	0.33	7.13	-120.4
		12:50			17.27	0.572	>1000	0.38	7.14	-123.0
		12:55			17.34	0.567	>1000	0.38	7.15	-125.7
		15:55	JC-213	140-150	17.13	0.593	>1000	2.30	7.17	-25.4
		16:00			17.67	0.636	>1000	0.17	7.11	-78.4
		16:05			17.60	0.638	>1000	0.16	7.12	-104.5
		16:10			17.82	0.642	>1000	0.12	7.12	-118.4

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.11

Stabilization Parameters - VAS37
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (units)	ORP (mV)
VAS37	9/18/2018	11:00	JC-172	25-30	15.27	0.618	75.2	1.04	7.59	-134.5
		11:05			15.87	0.620	131	0.65	7.55	-165.1
		11:10			16.13	0.621	368	0.56	7.49	-172.0
		11:15			16.16	0.621	794	0.50	7.46	-177.3
		11::20			16.13	0.621	>1000	0.43	7.47	-181.0
		11:25			16.12	0.622	>1000	0.39	7.48	-183.9
				30-35	Not sampled. Insufficient water production.					
	9/19/2018	7:50	JC-173	35-40	15.49	0.543	30.1	0.74	7.20	-91.2
		7:55			15.91	0.552	41.1	0.58	7.52	-118.9
		8:00			15.99	0.555	82.7	0.46	7.67	-130.5
		8:05			15.83	0.554	80.7	0.42	7.71	-131.3
		8:10			15.87	0.555	66.9	0.37	7.76	-136.7
		8:15			15.96	0.556	42.4	0.35	7.79	-138.8
		10:40	JC-174	40-45	16.50	0.654	8.20	1.18	7.50	-109.4
		10:45			16.29	0.650	17.4	1.08	7.39	-108.0
		10:50			16.49	0.651	19.8	1.11	7.39	-109.1
		10:55			16.34	0.651	19.8	1.10	7.41	-110.3
		14:00	JC-175	45-50	18.05	0.664	13.4	0.89	7.41	-115.4
		14:05			18.98	0.657	13.9	0.93	7.22	-109.1
		14:10			18.89	0.661	44.3	0.74	7.13	-106.5
		14:15			19.04	0.662	52.2	0.66	7.09	-107.5
		14:20			19.03	0.664	45.3	0.64	7.09	-108.4
	9/20/2018	9:50	JC-176	50-60	17.81	0.639	3.94	0.31	7.35	-92.4
		9:55	/JC177		17.96	0.642	3.44	0.32	7.40	-96.3
		10:00			18.01	0.644	2.70	0.46	7.42	-98.1
		10:05			17.94	0.644	2.53	0.47	7.44	-98.3
		13:05	JC-179	60-70	20.80	0.638	40	0.44	7.42	-94.9
		13:10			21.45	0.640	51	0.45	7.37	-99.3
		13:15			21.83	0.641	114	0.47	7.39	-103.5
		13:20			22.00	0.642	128	0.48	7.38	-105.0
	9/21/2018	8:35	JC-180	70-80	16.12	0.610	8.58	0.34	7.01	-106.2
		8:40			16.10	0.611	12.2	0.34	7.01	-108.7
		8:45			16.14	0.614	20.1	0.33	9.21	-112.6
		8:50			16.16	0.614	32.0	0.35	9.59	-116.4
		8:55			16.36	0.615	37.4	0.35	9.65	-118.9
		9:00			16.23	0.616	41.7	0.36	9.65	-121.1
	9/21/2018	11:20	JC-181	80-90	18.24	0.621	776	0.37	11.19	-112.6
		11:25			18.77	0.621	>1000	0.36	11.10	-110.2
	9/24/2018	8:45			15.01	1.061	22.8	3.16	6.51	-82.5
		8:50			15.00	1.066	19.1	1.07	6.68	-106.5
		8:55			14.97	1.068	17.5	0.51	6.75	-118.9
		9:00			14.92	1.067	23.1	0.18	6.82	-143.6
		9:05			14.90	1.066	23.3	0.20	6.85	-154.8
	9/24/2018	11:35	JC-182	90-100	15.52	1.110	56	1.07	7.05	-74.4
		11:40			15.96	1.124	114	0.45	7.04	-94.5
		11:45			15.86	1.116	247	0.22	7.04	-107.4
		11:50			15.87	1.115	314	0.14	7.04	-116.8

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Stabilization Parameters - VAS40
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS40	9/7/2018	8:35	JC-155	30-35	18.46	0.569	350.0	18.54	6.92	90.4
		8:40			17.99	0.524	171.0	11.09	7.02	90.6
		8:45			17.95	0.516	85.1	5.33	7.07	87.8
		8:50			17.80	0.511	58.4	4.32	7.13	82.6
		8:55			17.69	0.511	60.0	3.98	7.17	78.4
		9:00			18.04	0.510	42.1	3.76	7.20	75.1
		10:55	JC-156	35-40	19.41	0.860	22.5	1.09	6.96	92.0
		11:00			18.79	0.865	3.61	1.01	6.98	84.6
		11:05			19.31	0.867	4.94	1.02	7.01	74.0
		11:10			18.34	0.860	39.8	0.95	7.01	66.2
		11:15			18.83	0.854	9.87	1.02	7.01	63.6
		11:20			19.06	0.855	5.48	1.11	7.03	60.5
		14:05	JC-157	40-45	18.85	1.006	18.3	1.34	6.87	50.1
		14:10			18.74	1.005	222	1.40	6.88	40.2
		14:15			18.91	1.011	285	1.41	6.88	32.8
		14:20			18.98	1.017	234	1.39	6.90	24.0
		14:25			18.89	1.018	155	1.40	6.90	14.7
		14:30			18.96	1.018	135	1.40	6.90	10.2
		14:35			18.98	1.016	125	1.38	6.90	1.1
	9/10/2018	10:55	JC-158	45-50	15.72	1.083	579	1.01	6.85	-51.0
		11:00			15.73	1.088	602	0.88	6.89	-50.0
		11:05			15.71	1.090	425	0.77	6.92	-53.5
		11:10			15.78	1.090	299	0.71	6.94	-58.8
		11:15			15.81	1.090	221	0.68	6.96	-61.2
		11:20			15.79	1.090	162	0.68	6.96	-64.2
		11:25			15.96	1.090	122	0.74	6.97	-66.2
		14:10	JC-159	50-60	16.83	1.028	104	2.00	7.08	16.7
		14:15			17.43	1.007	380	1.36	7.07	10.2
		14:20			17.63	0.947	514	1.42	7.10	2.3
		14:25			17.72	0.920	515	1.47	7.10	0.7
		14:30			17.64	0.901	565	1.41	7.11	0.5
	9/11/2018	8:00	JC-160	60-70	15.84	0.640	60.9	4.80	6.85	-112.8
		8:05			15.94	0.654	46.5	1.29	7.07	-119.4
		8:10			15.96	0.656	42.6	0.90	7.11	-119.3
		8:15			16.02	0.657	38.7	0.75	7.14	-123.4
		8:20			16.15	0.658	33.6	0.62	7.17	-126.2
		8:25			16.13	0.658	34.3	0.60	7.18	-127.0
		11:00	JC-161	70-80	16.50	0.548	21.6	1.15	7.28	-90.1
		11:05			16.78	0.515	5.80	0.80	7.26	-114.1
		11:10			16.78	0.512	6.46	0.79	7.27	-118.8
		11:15			16.82	0.511	6.81	0.79	7.28	-121.0
		14:35	JC-162 /	80-90	19.50	0.514	383	0.59	7.26	-120.1
		14:40	JC163		20.62	0.516	310	0.53	7.24	-123.8
		14:45			20.82	0.517	383	0.56	7.23	-126.9
		14:50			20.60	0.515	360	0.54	7.22	-133.8
		14:55			20.24	0.518	823	0.61	7.21	-133.7
		15:00			20.32	0.514	820	0.56	7.19	-135.4
		15:05			20.47	0.515	989	0.58	7.19	-139.5
	9/12/2018	10:10	JC165	90-100	17.58	0.505	>1000	0.34	6.89	-108.1
		10:15			17.70	0.505	>1000	0.28	6.97	-115.2
		10:20			17.95	0.504	>1000	0.24	7.05	-123.0
		10:25			17.93	0.503	>1000	0.21	7.10	-126.2
		10:30			17.99	0.502	>1000	0.20	7.13	-130.9
		10:35			18.18	0.504	>1000	0.17	7.15	-136.3
		13:20	JC-166	100-110	19.10	0.493	696	0.69	7.08	-100.4
		13:25			19.56	0.477	724	0.63	7.15	-116.2
		13:30			19.59	0.473	841	0.60	7.16	-118.7
		13:35			19.63	0.470	988	0.54	7.18	-120.2
		13:40			19.28	0.469	>1000	0.53	7.17	-124.1
		13:45			19.06	0.469	>1000	0.49	7.17	-125.4
		13:50			19.12	0.470	>1000	0.48	7.17	-125.8
	9/13/2018	8:45	JC-167	110-120	17.60	0.504	29.8	1.06	6.82	-120.3
		8:50			17.92	0.504	43.3	0.90	6.91	-131.5
		8:55			18.18	0.504	57.2	0.75	6.97	-134.3
		9:00			18.82	0.502	58.1	1.43	7.01	-128.9
		9:05			17.11	0.498	128	0.79	7.01	-131.4
		9:10			17.06	0.492	181	0.58	7.04	-136.0
		9:15			17.09	0.491	183	0.49	7.06	-136.9
		9:20			17.24	0.493	186	0.47	7.08	-139.8
		12:55	JC-168	120-130	19.50	0.542	118	0.44	7.03	-106.0
		13:00			21.74	0.541	166	0.37	7.06	-128.0
		13:05			21.47	0.542	191	0.41	7.05	-129.7
		13:10			21.34	0.543	234	0.45	7.05	-130.3
		13:15			21.71	0.540	278	0.48	7.05	-134.4
		13:20			21.24	0.542	341	0.49	7.04	-134.5
	9/14/2018	8:00	JC-169	130-140	16.57	0.494	48.7	4.97	6.58	-120.2
		8:05			17.27	0.496	45.9	2.29	6.86	-158.7
		8:10			17.46	0.498	59.1	1.32	6.99	-170.1
		8:15			17.61	0.498	62.5	0.94	7.07	-179.3
		8:20			17.76	0.499	82.2	0.72	7.12	-180.4
		8:25			17.90	0.499	92.2	0.64	7.12	-179.1
		11:30	JC-170	140-150	21.56	0.538	>1000	0.48	7.19	-155.5
		11:35			22.66	0.545	896	0.51	7.12	-137.1
		11:40			21.29	0.546	973	0.50	7.12	-136.1
		11:45			21.35	0.539	624	0.40	7.10	-139.1
		11:50			21.46	0.539	519	0.38	7.11	-141.1
		11:55			21.40	0.538	431	0.38	7.11	-143.2

Notes:

°C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.13

Stabilization Parameters - VAS42
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS42	8/15/2018	14:00	JC-120	30-35	17.69	0.744	17.1	8.06	6.72	34.1
		14:05			17.46	0.742	15.3	6.25	6.81	19.8
		14:10			17.43	0.741	3.15	4.80	6.85	14.3
		14:15			17.37	0.741	8.37	3.91	6.89	10.8
		14:20			17.35	0.740	2.47	3.42	6.90	9.7
		14:25			17.44	0.740	7.25	2.97	6.91	8.8
		14:30			17.43	0.741	7.79	2.64	6.92	7.6
		14:35			17.41	0.740	6.03	2.48	6.93	7.1
		14:40			17.44	0.741	5.25	2.36	6.93	7.3
	8/16/2018	8:50	JC-121	35-40	17.20	0.921	84.7	4.47	6.73	31.7
		8:55			17.46	0.929	68.1	3.16	6.79	23.1
		9:00			17.45	0.925	55.3	2.60	6.82	15.1
		9:05			17.36	0.926	73.7	2.21	6.85	2.5
		9:10			17.16	0.924	81.3	2.09	6.87	-7.5
		9:15			17.46	0.925	47.3	1.92	6.88	-12.8
		9:20			17.60	0.922	64.1	1.81	6.88	-17.2
		9:25			17.54	0.923	68.1	1.75	6.89	-22.1
		9:30			17.49	0.924	68.7	1.71	6.89	-22.9
		10:45	JC-122	40-45	17.46	0.895	16.4	1.77	6.98	50.7
		10:50			17.57	0.881	16.9	1.40	7.00	22.6
		10:55								
		11:00			17.72	0.886	3.41	1.24	7.00	-26.6
		11:05			18.23	0.892	3.58	1.20	6.99	-32.8
		11:10			19.00	0.893	4.35	1.17	9.98	-35.5
		11:15			18.44	0.886	5.61	1.19	7.00	-46.8
		11:20			18.29	0.890	5.85	1.18	6.99	-52.3
		11:25			18.34	0.895	5.66	1.18	6.99	-54.2
		12:30	JC-123	45-50	19.81	1.054	10.8	1.31	6.94	-3.6
		12:35			20.50	1.061	2.73	1.24	6.93	-4.9
		12:40			19.51	1.074	2.14	1.18	6.92	-13.9
		12:45			18.54	1.043	1.11	1.15	6.97	-37.6
		12:50			18.94	1.021	7.95	1.11	6.99	-46.5
		12:55			20.80	1.012	3.65	1.03	7.00	-55.3
		13:00			20.59	1.048	0.66	1.03	6.98	-53.5
		13:05			20.19	1.060	0.78	1.04	6.96	-51.9
		13:10			20.06	1.035	1.23	1.03	6.98	-60.9
		13:15			19.96	1.029	1.47	1.03	6.99	-68.5
		13:20			20.27	1.017		1.00	7.00	-75.3
		13:25			20.22	1.025	5.34	0.99	7.00	-80.5
		13:30			20.01	1.014	1.28	0.99	7.00	-84.9
		13:35			20.21	1.010	1.04	0.97	7.00	-85.2
		13:40			20.23	1.012	1.74	0.96	7.00	-83.8

Stabilization Parameters - VAS42
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS42	8/17/2018	7:45	JC-124 / JC-125	50-60	19.31	0.960	121	1.39	6.72	-42.0
		7:50			19.49	0.961	229	1.33	6.86	-75.3
		7:55			19.41	0.952	138	1.25	6.92	-96.4
		8:00			19.20	0.954	124	1.24	6.94	-99.5
		8:05			19.24	0.949	124	1.21	6.97	-111.3
		8:10			19.08	0.950	126	1.23	6.99	-108.9
		8:15			19.14	0.955	115	1.24	7.00	-109.3
		8:20			19.07	0.956	116	1.27	7.01	-107.1
		8:25			18.87	0.957	104	1.29	7.02	-110.2
		8:30			18.93	0.961	94.6	1.29	7.03	-118.5
		8:35			18.82	0.964	89.8	1.28	7.03	-112.4
				60-70	Not sampled. Insufficient water production.					
				70-80	Not sampled. Insufficient water production.					
		13:20	JC-126	80-90	25.28	0.725	356	1.00	7.11	-108.3
		13:25			25.43	0.721	343	1.00	7.12	-114.9
		13:30			25.55	0.718	276	0.87	7.13	-116.4
		13:35			24.13	0.708	>1000	0.82	7.12	-112.0
		13:40								
		13:45			24.55	0.704	>1000	0.76	7.12	-118.6
					Purged at a high flow rate to reduce turbidity.					
		14:15			20.97	0.726	165	0.49	7.18	-112.4
		14:20			22.01	0.736	325	0.43	7.13	-124.2
		14:25								
		14:30			19.57	0.734	415	0.35	7.18	-134.7
		14:35			19.53	0.734	352	0.33	7.18	-136.3
		14:40			19.47	0.735	269	0.31	7.18	-138.2
		14:45			19.38	0.735	186	0.28	7.17	-139.7
		14:50			19.30	0.736	142	0.27	7.18	-141.2
		14:55			19.24	0.736	129	0.27	7.18	-142.3
		15:00			19.18	0.737	97.3	0.26	7.18	-143.1
		15:05			19.09	0.737	83.0	0.26	7.19	-143.9
		15:10			19.06	0.737	69.3	0.25	7.19	-144.1
		15:15			18.98	0.737	66.9	0.25	7.19	-144.3
		15:20			18.91	0.738	51.7	0.25	7.19	-144.5
		15:25			18.85	0.737	44.4	0.25	7.19	-144.7
		15:30			18.83	0.736	37.2	0.24	7.19	-144.3
		15:35			18.80	0.737	42.6	0.25	7.19	-144.2

Table B4.13

Stabilization Parameters - VAS42
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS42	8/20/2018	10:35	JC-127	90-100	20.17	0.746	117	7.69	6.92	-115.5
		10:40			20.59	0.750	151	2.01	9.97	-117.3
		10:45			20.59	0.751	131	1.29	7.03	-121.2
		10:50			20.88	0.748	109	0.95	7.05	-123.7
		10:55			21.66	0.750	102	0.76	7.05	-125.7
		11:00			21.21	0.752	82.5	0.62	7.07	-128.8
		11:05			20.98	0.753	64.4	0.52	7.08	-132.1
		11:10			20.77	0.755	56.5	0.50	7.09	-134.6
		11:15			20.52	0.758	45.3	0.45	7.15	-138.3
		11:20			20.59	0.755	41.3	0.44	7.17	-137.8
		11:25			20.63	0.758	37.9	0.42	7.18	-141.9
		14:00	JC-128	100-110	23.36	0.624	608	0.79	7.10	-124.5
		14:05			24.11	0.609	860	0.77	7.13	-121.7
		14:10			25.01	0.598	991	0.81	7.14	-123.7
		14:15			22.14	0.599	>1000	0.76	7.17	-128.5
		14:20			19.26	0.585	>1000	0.75	7.23	-137.4
		14:25			19.06	0.591	>1000	0.73	7.23	-139.5
		14:30								
		14:35			18.84	0.600	>1000	0.66	7.25	-145.1
		14:40								
		14:45			23.23	0.623	557	0.35	7.23	-134.5
		14:50			22.52	0.621	698	0.33	7.24	-143.6
		14:55			23.23	0.608	947	0.35	7.24	-143.1
		15:00			24.40	0.602	>1000	0.38	7.23	-142.2
		15:05			23.59	0.603	>1000	0.41	7.20	-142.9
		15:10			24.19	0.601	>1000	0.41	7.21	-143.5
		15:15			22.94	0.593	>1000	0.44	7.20	-143.2
	8/21/2018	7:55			17.27	0.626	>1000	1.78	6.99	-148.0
		8:00			17.22	0.618	>1000	0.78	7.13	-163.5
		8:05			17.29	0.616	>1000	0.71	7.18	-168.2
		8:10			17.27	0.615	>1000	0.45	7.23	-172.6
		8:15			19.22	0.611	>1000	0.39	7.24	-176.6
		8:20			18.79	0.617	>1000	0.37	7.23	-168.2
		8:25			18.79	0.616	>1000	0.37	7.25	-166.0
		8:30			19.20	0.613	>1000	0.37	7.26	-169.3
		11:30	JC-130	110-120	18.76	0.534	49.8	1.13	7.28	-120.3
		11:35			19.16	0.535	83.7	0.78	7.26	-123.0
		11:40			19.10	0.537	244	0.65	7.26	-128.0
		11:45			19.18	0.534	356	0.54	7.29	131.0
		11:50			19.19	0.534	373	0.46	7.31	-138.8
		11:55			18.70	0.535	376	0.40	7.34	-145.9
		12:00			18.87	0.534	396	0.39	7.35	-149.6
		12:05			18.94	0.534	344	0.38	7.35	-150.1

Stabilization Parameters - VAS42
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS42	8/21/2018	14:20	JC-131	120-130	19.54	0.523	17.1	0.29	7.20	-132.4
		14:25			19.74	0.520	138	0.33	7.21	-133.9
		14:30			20.49	0.519	160	0.36	7.23	-134.3
		14:35			20.10	0.516	228	0.44	7.26	-136.6
		14:40			19.41	0.514	246	0.41	7.28	-138.2
		14:45			19.22	0.513	244	0.41	7.33	-141.5
		14:50			19.24	0.513	247	0.40	7.34	-143.4
	8/22/2018	8:35	JC-132	130-140	16.66	0.519	3.71	0.48	7.08	-114.1
		8:40			17.42	0.523	5.17	0.29	7.06	-115.9
		8:45			18.17	0.524	18.6	0.28	7.05	-116.3
		8:50			18.65	0.525	15.0	0.29	7.04	-119.1
		8:55			17.74	0.530	24.2	0.28	7.05	-122.9
		9:00			17.32	0.525	17.8	0.22	7.06	-125.7
		9:05			17.32	0.528	13.0	0.22	7.09	-123.1
		9:10			17.14	0.530	13.6	0.19	7.12	-129.5
		9:15			17.14	0.531	13.0	0.19	7.14	-131.0
		11:50	JC-133	140-150	18.67	0.578	178	0.47	6.99	-121.1
		11:55			18.55	0.574	226	0.43	7.00	-123.6
		12:00			18.58	0.573	229	0.38	7.02	-126.1
		12:05			18.59	0.573	241	0.38	7.03	-127.2

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.14

Stabilization Parameters - VAS43
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS-43	8/23/2018	9:00	JC-134 / JC-145	25-30	16.75	0.808	149	out of range	6.49	36.1
		9:05			17.66	0.817	288	out of range	6.53	-1.7
		9:10			17.85	0.823	220	out of range	6.56	-12.1
		9:15			18.14	0.826	202	5.37	6.57	-15.8
		9:20			18.35	0.827	185	4.33	6.58	-19.9
		9:25			18.61	0.828	139	2.50	6.58	-25.6
		9:30			18.58	0.828	96.8	2.14	6.57	-27.3
		9:35			18.57	0.826	75.7	1.68	6.57	-28.4
		9:40			18.63	0.824	53.4	1.44	6.57	-29.0
		9:45			18.73	0.823	51.7	1.51	6.57	-28.7
		9:50			18.86	0.823	58.1	1.85	6.57	-29.0
		9:55			19.05	0.822	40.3	2.11	6.57	-29.7
		10:00			19.19	0.822	27.4	2.30	6.56	-31.4
		10:05			19.18	0.821	19.8	2.39	6.56	-30.2
		10:10			19.22	0.820	19.9	2.41	6.56	-29.8
		10:15			19.31	0.819	26.0	2.41	6.56	-29.6
		10:20			19.68	0.818	20.4	2.38	6.56	-29.4
		10:25			19.91	0.819	12.5	2.37	6.56	-30.9
		10:30			19.42	0.821	10.2	2.34	6.55	-32.7
		10:35			19.28	0.817	7.26	2.25	6.54	-28.8
		10:40			19.55	0.817	5.26	2.18	6.55	-28.3
		10:45			19.72	0.817	8.88	2.09	6.55	-28.8
		10:50			19.81	0.817	8.43	2.01	6.55	-29.0
		10:55			19.72	0.817	6.56	1.83	6.54	-27.4
		11:00			19.80	0.816	5.54	1.78	6.54	-27.0
		11:05			19.91	0.816	5.64	1.76	6.54	-26.0
		12:30	JC-136	30-35	18.80	0.836	144	1.09	6.61	-26.8
		12:35			18.75	0.834	204	0.80	6.61	-28.2
		12:40			18.68	0.835	304	0.57	6.62	-38.9
		12:45			18.61	0.834	311	0.51	6.62	-45.5
		12:50			18.67	0.834	300	0.45	6.62	-48.8
		12:55			18.58	0.833	301	0.41	6.62	-50.9
		13:00			18.69	0.833	294	0.38	6.60	-52.6
		14:15	JC-137	35-40	19.66	0.869	191	1.22	6.70	22.7
		14:20			19.58	0.867	181	1.01	6.72	26.4
		14:25			18.99	0.866	182	0.91	6.73	26.4
		14:30			19.00	0.865	164	0.86	6.73	30.9
		14:35			19.09	0.863	188	0.87	6.72	35.4
	8/24/2018	8:05	JC-138	40-45	16.42	0.796	5.60	1.48	6.35	-48.0
		8:10			16.36	0.794	6.49	0.77	6.50	-56.4
		8:15			16.42	0.795	7.02	0.59	6.53	-60.7
		8:20			16.52	0.795	7.08	0.47	6.55	-65.6
		8:25			16.48	0.795	4.74	0.41	6.58	-69.7
		10:20	JC-139	45-50	18.47	0.740	108	0.51	6.79	-47.5
		10:25			19.54	0.705	336	0.54	6.74	-32.3
		10:30			19.57	0.700	410	0.51	6.74	-33.9
		10:35			19.28	0.699	352	0.46	6.74	-37.9
		10:40			19.2	0.706	276	0.40	6.74	-39.4
		10:45			19.18	0.713	206	0.36	6.73	-41.7
		10:50			19.08	0.719	137	0.35	6.74	-45.7
		10:55			19.02	0.721	95.4	0.33	6.74	-47.0
		11:00			19.23	0.718	267	0.31	6.74	-50.1
		11:05			19.12	0.719	113	0.30	6.74	-50.9
		11:10			19.19	0.720	77.6	0.30	6.74	-51.7
		11:15			19.17	0.720	67.4	0.28	6.74	-53.1
		11:20			19.02	0.721	59.9	0.28	6.74	-53.8
		11:25			19.03	0.721	61.7	0.27	6.74	N/A

Table B4.14

Stabilization Parameters - VAS43
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (°C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS-43	8/24/2018	13:10	JC-140	50-60	20.41	0.705	38.0	0.15	6.74	-25.9
		13:15			20.07	0.703	104.0	0.14	6.75	-36.6
		13:20			19.77	0.703	129.0	0.14	6.76	-48.3
		13:25			19.88	0.703	132.0	0.13	6.77	-52.3
		13:30			20.05	0.703	169.0	0.14	6.77	-56.9
		13:35			19.64	0.702	176.0	0.14	6.77	-61.5
		13:40			19.63	0.701	144.0	0.14	6.77	-63.9
		13:45			19.40	0.700	170.0	0.14	6.78	-67.3
		13:50			19.50	0.699	168.0	0.13	6.78	-69.5
		13:55			19.36	0.699	194.0	0.14	6.81	-71.9
	8/27/2018	9:50	JC-141	60-70	22.41	0.592	138	15.40	6.76	-122.6
		9:55			22.53	0.594	253	3.72	6.86	-126.1
		10:00			22.30	0.593	246	2.34	6.89	-123.7
		10:05			22.33	0.593	254	1.53	6.94	-125.5
		10:10			22.46	0.592	550	1.39	9.96	-126.1
		10:15			22.76	0.592	>1000	1.28	6.97	-129.2
		10:20			22.48	0.594	>1000	1.15	6.98	-132.1
		10:25			23.36	0.595	>1000	1.04	7.00	-136.1
		10:30			22.41	0.597	>1000	1.04	6.96	-123.3
		10:35			21.77	0.592	888	1.09	6.92	-114.0
		10:40			21.50	0.591	593	1.71	6.93	-110.4
		10:45			21.42	0.590	370	1.18	6.93	-105.8
		10:50			21.51	0.590	>1000	1.12	6.93	-109.2
		10:55			21.31	0.590	>1000	1.09	6.97	-109.9
		11:00			21.10	0.589	262	1.07	6.95	-109.0
		11:05			20.97	0.588	240	1.33	6.95	-107.6
		11:10			20.97	0.588	365	1.05	6.95	-106.4
		11:15			20.93	0.588	252	0.98	6.95	-104.5
		11:20			20.90	0.587	246	0.95	6.95	-104.9
		11:25			21.05	0.588	162	0.93	6.94	-103.5
		11:30			20.97	0.587	146	0.89	6.94	-104.4
		11:35			21.01	0.587	218	0.88	6.94	-100.8
		11:40			21.18	0.588	352	0.86	6.94	-99.7
		11:45			21.27	0.587	156	0.99	6.93	-95.1
		11:50			21.28	0.586	152	0.84	6.93	-93.9
		11:55			21.12	0.586	147	0.82	6.93	-93.2
		14:50	JC-143	70-80	20.66	0.574	4.98	0.44	6.97	-115.5
		14:55			21.43	0.577	4.73	0.38	6.95	-118.9
		15:00			21.60	0.581	11.0	0.37	6.96	-121.9
		15:05			21.88	0.581	16.2	0.35	6.97	-123.8
		15:10			21.86	0.582	14.1	0.34	6.99	-125.1
		15:15			21.39	0.582	10.9	0.34	7.00	-127.4
		15:20			21.35	0.583	9.39	0.32	7.01	-130.2
		15:25			21.30	0.583	8.68	0.30	7.03	-131.1
		15:30			21.48	0.583	8.94	0.30	7.04	-131
	8/28/2018	9:55	JC-144	80-90	19.81	0.472	12.8	21.70	7.08	-98.5
		10:00			20.75	0.471	15.1	10.30	7.16	-118.7
		10:05			20.68	0.468	33.5		7.20	-121.7
		10:10			18.95	0.470	73.0	2.90	7.24	-122.0
		10:15			18.53	0.473	71.8	2.23	7.26	-123.7
		10:20			18.56	0.475	57.5	1.64	7.29	-126.1
		10:25			18.60	0.476	54.5	1.33	7.32	-129.8
		10:30			18.48	0.477	52.1	1.25	7.33	-130.1
		12:40	JC-145	90-100	21.99	0.431	898	0.69	7.32	-138.4
		12:45			21.48	0.423	>1000	0.71	7.29	-134.5
		12:50			21.65	0.413	>1000	0.72	7.31	-132.0
		12:55			21.50	0.413	>1000	0.69	7.32	-132.5
		13:00			21.22	0.407	>1000	0.76	7.35	-130.7
		13:05			21.29	0.406	>1000	0.69	7.35	-132.0

Table B4.14

Stabilization Parameters - VAS43
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH	ORP (mV)
VAS-43	8/29/2018	8:10	JC-146	100-110	19.15	0.521	25.5	3.45	7.26	-124.5
		8:15			19.25	0.521	34.5	2.19	7.30	-128.9
		8:20			19.33	0.520	37.8	0.92	7.30	-134.0
		8:25			19.90	0.520	36.8	0.60	7.31	-140.0
		11:20	JC-147	110-120	20.35	0.548	102	0.49	7.26	-127.8
		11:25			20.23	0.545	235	0.45	7.25	-129.1
		11:30			20.18	0.546	222	0.39	7.25	-132.3
		11:35			20.04	0.547	236	0.38	7.25	-133.2
		14:35	JC-148	120-130	19.50	0.586	17.4	0.40	7.26	-106.9
		14:40			21.16	0.578	78.1	0.13	7.07	-120.9
		14:45			21.07	0.573	178	0.12	7.11	-125.1
		14:50			20.79	0.572	172	0.12	7.14	-127.6
		14:55			20.68	0.573	151	0.12	7.16	-131.1
		15:00			20.74	0.574	138	0.12	7.17	-133.1
	8/30/2018	11:25	JC-149	130-140	18.18	0.569	491	23.14	6.97	-109.1
		11:30			19.76	0.568	768	11.40	7.08	-124.8
		11:35			19.75	0.561	>1000	4.95	7.11	-129.7
		11:40			19.78	0.556	>1000	2.38	7.13	-132.2
		11:45			19.96	0.551	>1000	1.30	7.14	-134.6
		11:50			19.91	0.547	>1000	0.82	7.16	-137.1
		11:55			20.03	0.544	>1000	0.66	7.16	-138.4
	8/31/2018	7:45	JC-150	140-150	17.38	0.547	61.3	1.20	6.46	-95.0
		7:50			18.08	0.542	52.4	0.78	6.92	-148.9
		7:55			18.26	0.539	106	0.58	7.12	-175.8
		8:00			18.30	0.539	121	0.51	7.18	-181.5
		8:05			18.36	0.539	121	0.46	7.22	-173.4
		8:10			18.51	0.537	136	0.42	7.25	-179.5

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Table B4.15

Stabilization Parameters - VAS39
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (units)	ORP (mV)
VAS37	1/22/2019	14:10	JC-214	5-10	7.64	0.747	265	25.00	6.81	-111.9
		14:15			7.66	0.732	294	12.87	6.88	-208.9
		14:20			7.64	0.726	234	3.71	7.05	-376.0
		14:25			7.61	0.721	185	2.37	7.07	-419.5
		14:30			7.70	0.718	166	6.30	7.08	-449.4
		14:35			7.55	0.713	138	4.20	7.09	-464.6
		14:40			7.68	0.710	130	2.91	7.09	-479.0
		14:45			7.72	0.708	137	2.40	7.09	-468.9
		14:50			7.66	0.707	130	2.15	7.09	-481.9
		9:50	JC-215	15-20	10.06	0.724	37.9	0.93	7.12	-447.9
		9:55			10.03	0.724	14.8	0.31	7.10	-402.1
		10:00			9.97	0.719	14.1	0.32	7.11	-467.2
		10:05			9.98	0.716	12.9	0.41	7.11	-471.0
		10:10			10.02	0.715	12.1	0.50	7.10	-465.6
		10:15			10.05	0.714	11.9	0.54	7.10	-457.4
		11:35	JC-216	15-20	11.13	0.685	46.0	0.41	7.26	-104.1
		11:40			10.82	0.679	39.4	0.31	7.24	-153.1
		11:45			10.66	0.679	31.0	0.27	7.24	-169.9
		11:50			10.49	0.679	24.7	0.27	7.25	-220.4
		11:55			10.30	0.680	24.1	0.28	7.25	-195.1
		13:05	JC-217	20-25	12.39	0.675	207	0.64	7.31	-358.9
		13:10			12.29	0.680	223	0.22	7.41	-507.8
		13:15			12.03	0.681	>1000	0.23	7.37	-455.1
		13:20			11.87	0.679	>1000	0.22	7.40	-442.1
		13:25			11.76	0.678	>1000	0.22	7.41	-438.7
		13:30			11.77	0.678	>1000	0.16	7.43	-455.3
		13:35			11.70	0.678	>1000	0.14	7.44	-475.1
		14:35	JC-218	25-30	11.75	0.662	70.5	0.35	7.40	-455.4
		14:40			11.08	0.663	67.7	0.21	7.42	-490.4
		14:45			10.57	0.651	44.5	0.18	7.33	-455.1
		14:50			10.57	0.653	41.3	0.18	7.35	-439.2
		14:55			10.61	0.655	31.9	0.19	7.38	-380.9
	1/29/2019	14:05	JC-219	30-40	4.99	0.589	>1000	2.20	7.00	-505.00
		14:10	/JC-220		3.29	0.588	>1000	0.96	7.38	-594.20
		14:15			5.65	0.594	>1000	0.60	7.37	-597.40
		14:20			5.62	0.592	>1000	0.55	7.36	-598.00
		14:25			5.59	0.590	>1000	0.52	7.36	-598.70
	2/4/2019	13:55	JC-221	40-50	11.79	0.491	32.1	0.57	6.97	-444.9
		14:00			11.62	0.481	56.2	0.39	7.03	-487.3
		14:05			11.54	0.472	60.6	0.20	7.06	-418.7
		14:10			11.49	0.471	83.6	0.17	7.07	-488.9
		14:15			11.47	0.470	119	0.23	7.09	-524.3
	2/5/2019			50-60	Not Sampled - Insufficient water production					
		9:45	JC-222	60-70	9.68	0.549	62.6	0.51	7.28	-410.9
		9:50			9.44	0.554	16.2	0.37	7.29	-338.9
		9:55			9.51	0.553	7.98	0.36	7.26	-434.9
		10:00			9.55	0.553	6.87	0.32	7.27	-465.0
		10:05			9.45	0.551	14.8	0.37	7.26	-461.1
		11:45	JC-223	70-80	8.94	0.596	58.3	2.09	7.44	-368.4
		11:50			8.51	0.596	53.5	0.77	7.40	-388.7
		11:55			8.43	0.585	84.2	0.57	7.31	-316.9
		12:00			8.44	0.576	277	0.47	7.32	-450.2
		12:05			8.45	0.568	538	0.37	7.34	-346.3
		12:10			8.45	0.567	>1000	0.32	7.34	-377.4

Stabilization Parameters - VAS39
South Dayton Dump and Landfill Site
Moraine, Ohio

Location	Date	Time	Sample ID	Sample Interval (ft bgs)	Temperature (^{o}C)	Conductivity (mS/cm)	Turbidity (NTU)	DO (mg/L)	pH (units)	ORP (mV)
VAS37 cont'd	2/5/2019	15:25	JC-224	80-90	9.90	0.631	41.4	0.45	7.31	-415.2
		15:30			9.90	0.631	325	0.30	7.33	-389.0
		15:35			9.71	0.629	>1000	0.28	7.31	-431.9
		15:40			9.73	0.628	>1000	0.26	7.32	-428.9
		15:45			9.72	0.628	>1000	0.26	7.31	-365.7
	2/20/2019	10:25	JC-225	90-100	8.47	1.149	23.1	0.66	6.59	-316.9
		10:30			8.44	1.145	84.3	0.45	6.88	-392.8
		10:35			8.49	1.141	131	0.39	6.95	-380.9
		10:40			8.54	1.138	167	0.34	6.98	-387.1
		10:45			8.47	1.136	202	0.35	7.01	-390.1
		10:50			8.58	1.136	215	0.38	7.03	-409.0
		10:55			8.60	1.136	244	0.33	7.04	-401.9

Notes:

^{o}C	Degrees Celsius
DO	Dissolved Oxygen
ft bgs	feet below ground surface
mS/cm	milli-Siemens/cm
mV	millivolts
NTU	Nephelometric Turbidity Unit
ORP	Oxidation Reduction Potential

Appendix B.5
Groundwater Sample List

Table B5.1

Groundwater Sample List (October 2017 to February 2019)
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Volatiles	Semi-Volatiles	Metals	PCBs	Pesticides	Herbicides	General Chemistry
WG	on-site (EU17)	BH01-18	WG-38443-050818-GL-003	5/8/2018	26-30 ft BGS		1485273.977	634771.876	X		X				X
WG	on-site (EU17)	BH01-18	WG-38443-050818-GL-004	5/8/2018	26-30 ft BGS	Duplicate	1485273.977	634771.876	X		X				X
WG	on-site (EU17)	BH02-18	WG-38443-050818-GL-002	5/8/2018	27.5-31.5 ft BGS		1485185.013	634716.295	X		X				X
WG	on-site (EU17)	BH03-18	WG-38443-050718-GL-001	5/7/2018	26.5-30.5 ft BGS		1485000.81	634610.735	X		X				X
WG	on-site (EU17)	BH04-18	WG-38443-050818-GL-005	5/8/2018	25.5-29.5 ft BGS		1485488.099	634808.85	X		X				X
WG	on-site (EU15)	BH05-18	WG-38443-051018-GL-009	5/10/2018	27.5-31.5 ft BGS		1485333.599	634330.318	X		X				X
WG	on-site (EU16)	BH06-18	WG-38443-051018-GL-007	5/10/2018	28-32 ft BGS		1485020.048	634190.388	X		X				X
WG	on-site (EU17)	BH07-18	WG-38443-051018-GL-008	5/10/2018	28-32 ft BGS		1485685.528	634893.174	X		X				X
WG	on-site (EU14)	BH08-18	WG-38443-051118-GL-010	5/11/2018	22.3-26.3 ft BGS		1485445.569	633729.622	X	X	X	X			X
WG	on-site (EU19)	BH09-18	WG-38443-051418-GL-012	5/14/2018	21.5-25.5 ft BGS		1485155.031	633429.281	X	X	X	X			X
WG	on-site (EU11)	BH10-18	WG-38443-051118-GL-011	5/11/2018	38-42 ft BGS		1485532.099	633395.761	X	X	X	X			X
WG	off-site (EU00)	BH11-18	GW-38443-073118-JC-018	7/31/2018	30-34 ft BGS		1485239.095	632824.238	X	X	X	X	X	X	X
WG	off-site (EU00)	BH11-18	GW-38443-080218-JC-019	8/2/2018	38-43 ft BGS		1485239.095	632824.238	X						
WG	off-site (EU00)	BH12-18	WG-38443-051818-GL-016	5/18/2018	30.5-34.5 ft BGS		1485050.646	632715.012	X	X	X	X	X	X	X
WG	off-site (EU00)	BH13-18	WG-38443-051818-GL-015	5/18/2018	30.5-34.5 ft BGS		1485136.134	632569.874	X	X	X	X	X	X	X
WG	on-site (EU19)	BH14-18	GW-38443-091718-JC-171	9/17/2018	35-40 ft BGS		1484822.155	633403.344	X	X	X	X			X
WG	off-site (DP&L)	BH15-18	GW-38443-090518-JC-152	9/5/2018	25-30 ft BGS		1485774.485	633797.94	X		X				X
WG	off-site (DP&L)	BH15-18	GW-38443-090518-JC-153	9/5/2018	25-30 ft BGS	Duplicate	1485774.485	633797.94	X		X				X
WG	off-site (DP&L)	BH16-18	GW-38443-090418-JC-151	9/4/2018	25-30 ft BGS		1485738.329	633618.717	X		X				X
WG	off-site (EU00)	BH18-19	GW-38443-011419-JC-001	1/14/2019	14.5-18.5 ft BGS		1484672.463	632122.941	X	X	X	X	X	X	X
WG	off-site (EU00)	BH18-19	GW-38443-011419-JC-002	1/14/2019	14.5-18.5 ft BGS	Duplicate	1484672.463	632122.941	X	X	X	X	X	X	X
WG	off-site (EU00)	BH19-19	GW-38443-011419-JC-003	1/14/2019	15-19 ft BGS		1484772.489	632330.071	X	X	X	X	X	X	X
WG	on-site (EU19)	BH20-18	WG-38443-051518-GL-013	5/15/2018	27.3-31.3 ft BGS		1484613.315	633803.14	X	X	X	X	X	X	X
WG	on-site (EU19)	BH20-18	WG-38443-051518-GL-014	5/15/2018	27.3-31.3 ft BGS	Duplicate	1484613.315	633803.14	X	X	X	X	X	X	X
WG	off-site	MW-206	GW-38443-100417-DA-008	10/4/2017	20-30 ft BGS		1484303.59	634007.588	X	X	X	X	X	X	X
WG	off-site	MW-207	GW-38443-100417-SCT-009	10/4/2017	20-30 ft BGS		1484633.096	634363.269	X	X	X	X	X	X	X
WG	on-site (EU14)	MW-208	GW-38443-100417-SCT-006	10/4/2017	32-42 ft BGS		1485585.07	633845.51	X	X	X	X	X	X	X
WG	on-site (EU01)	MW-209	GW-38443-101718-AS-218	10/17/2018	18-26 ft BGS		1484343.343	632718.829	X	X	X	X	X	X	X
WG	on-site (EU01)	MW-209	GW-38443-101718-AS-219	10/17/2018	18-26 ft BGS	Duplicate	1484343.343	632718.829	X	X	X	X	X	X	X
WG	on-site (EU01)	MW-209A	GW-38443-101718-AS-220	10/17/2018	52-57 ft BGS		1484337.977	632746.335	X	X	X	X	X	X	X
WG	on-site (EU09)	MW-210	GW-38443-100317-DA-003	10/3/2017	26-36 ft BGS		1485396.751	632951.113	X	X		X	X	X	X
WG	on-site (EU09)	MW-210	GW-38443-100617-DA-013	10/6/2017	26-36 ft BGS		1485396.751	632951.113			X				X
WG	on-site (EU09)	MW-210A	GW-38443-100317-DA-002	10/3/2017	80-85 ft BGS		1485399.451	632964.361	X	X	X	X	X	X	X
WG	on-site (EU09)	MW-210B	GW-38443-100317-SCT-001	10/3/2017	97-102 ft BGS		1485390.923	632965.071	X	X	X	X	X	X	X
WG	on-site (EU01)	MW-212	GW-38443-101718-AS-222	10/17/2018	46-56 ft BGS		1484537.84	632746.38	X	X	X	X	X	X	X
WG	off-site	MW-214	GW-38443-032318-GL-001	3/23/2018	60-65 ft BGS		1484342.04	631920.504	X	X	X	X	X		X
WG	off-site	MW-214	GW-38443-032318-GL-002	3/23/2018	60-65 ft BGS	Duplicate	1484342.04	631920.504	X	X	X	X	X		X
WG	on-site (EU16)	MW-217	GW-38443-101718-JC-217	10/17/2018	45-50 ft BGS		1484742.267	634203.232	X	X	X	X	X	X	X
WG	off-site	MW-218A	GW-38443-100517-DA-010	10/5/2017	12-22 ft BGS		1483339.088	632429.806	X	X	X	X	X	X	X
WG	off-site	MW-218B	GW-38443-100517-SCT-011	10/5/2017	70-75 ft BGS		1483331.813	632433.765	X	X	X	X	X	X	X
WG	off-site (DP&L)	MW-223A	GW-38443-102518-JC-227	10/25/2018	33-38 ft BGS		1486254.372	634144.162	X	X	X	X	X	X	X
WG	off-site (DP&L)	MW-223B	GW-38443-102418-JC-226	10/24/2018	98.5-103.5 ft BGS		1486261.004	634140.452	X	X	X	X	X	X	X
WG	off-site (DP&L)	MW-224A	GW-38443-101618-AS-215	10/16/2018	35-40 ft BGS		1486547.567	634513.416	X	X	X	X	X	X	X
WG	off-site (DP&L)	MW-224B	GW-38443-101618-AS-214	10/16/2018	100-105 ft BGS		1486538.414	634515.448	X	X	X	X	X	X	X
WG	on-site (EU15)	MW-225	GW-38443-100517-DA-012	10/5/2017	17-27 ft BGS		1485672.903	634142.604	X	X	X	X	X	X	X
WG	off-site	MW-226	GW-38443-100417-SCT-007	10/4/2017	8.5-18.5 ft BGS		1485803.058	634938.638	X	X	X	X	X	X	X
WG	on-site (EU15)	MW-227	GW-38443-100417-DA-004	10/4/2017	22-32 ft BGS		1485248.779	634042.624	X	X	X	X	X	X	X
WG	on-site (EU15)	MW-227	GW-38443-100417-DA-005	10/4/2017	22-32 ft BGS	Duplicate	1485248.779	634042.624	X	X	X	X	X	X	X
WG	on-site (EU17)	MW-230	GW-38443-101718-JC-221	10/17/2018	27-37 ft BGS		1485591.75	634745.251	X	X	X	X	X	X	X
WG	on-site (EU19)	MW-233	GW-38443-101818-AS-225	10/18/2018	22-32 ft BGS		1483784.359	633208.66	X	X	X	X	X	X	X
WG	off-site (EU00)	MW-234	GW-38443-101618-AS-216	10/16/2018	25-35 ft BGS		1483714.099	632167.689	X	X	X	X	X	X	X
WG	on-site (EU13)	MW-235	GW-38443-101818-AS-224	10/18/2018	29-34 ft BGS		1485182.76	633668.846	X	X	X	X	X	X	X
WG	on-site (EU12)	VAS-15B	GW-38443-121317-KVM-001	12/13/2017	100-110 ft BGS		1485526.069	633524.931	X		X				X
WG	on-site (EU12)	VAS-15B	GW-38443-121317-KVM-002	12/13/2017	110-120 ft BGS		1485526.069	633524.931	X		X				X
WG	on-site (EU12)	VAS-15B	GW-38443-121417-KVM-003	12/14/2017	120-130 ft BGS		1485526.069	633524.931	X		X				X
WG	on-site (EU12)	VAS-15B	GW-38443-121417-KVM-004	12/14/2017	130-140 ft BGS		1485526.069	633524.931	X		X				X
WG	on-site (EU12)	VAS-15B	GW-38443-121517-KVM-005	12/15/2017	140-150 ft BGS		1485526.069	633524.931	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-092518-JC-183	9/25/2018	60-70 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-092618-JC-184	9/26/2018	70-80 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-092618-JC-185	9/26/2018	80-90 ft BGS		1484656.088	632504.83	X		X				X

Table B5.1

Groundwater Sample List (October 2017 to February 2019)
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Volatiles	Semi-Volatiles	Metals	PCBs	Pesticides	Herbicides	General Chemistry
WG	on-site (EU04)	VAS-22b	GW-38443-092718-JC-186	9/27/2018	90-100 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-092718-JC-187	9/27/2018	90-100 ft BGS	Duplicate	1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-092718-JC-188	9/27/2018	100-110 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-092718-JC-189	9/27/2018	110-120 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-100218-JC-191	10/2/2018	120-130 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-100218-JC-192	10/2/2018	130-140 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU04)	VAS-22b	GW-38443-100318-JC-193	10/3/2018	140-150 ft BGS		1484656.088	632504.83	X		X				X
WG	on-site (EU16)	VAS-31	GW-38443-011918-KVM-043	1/19/2018	35-40 ft BGS		1485298.051	634676.048	X	X	X	X	X		X
WG	on-site (EU16)	VAS-31	GW-38443-011918-KVM-044	1/19/2018	40-45 ft BGS		1485298.051	634676.048	X		X				X
WG	on-site (EU16)	VAS-31	GW-38443-012218-KVM-045	1/22/2018	45-50 ft BGS		1485298.051	634676.048	X		X				X
WG	on-site (EU16)	VAS-31	GW-38443-012218-KVM-046	1/22/2018	50-60 ft BGS		1485298.051	634676.048	X	X	X	X	X		X
WG	on-site (EU16)	VAS-31	GW-38443-012218-KVM-047	1/22/2018	60-70 ft BGS		1485298.051	634676.048	X		X				X
WG	on-site (EU16)	VAS-31	GW-38443-012318-KVM-048	1/23/2018	70-80 ft BGS		1485298.051	634676.048	X		X				X
WG	on-site (EU16)	VAS-31	GW-38443-012318-KVM-049	1/23/2018	80-90 ft BGS		1485298.051	634676.048	X		X				X
WG	on-site (EU16)	VAS-31	GW-38443-012418-KVM-050	1/24/2018	90-100 ft BGS		1485298.051	634676.048	X		X				X
WG	on-site (EU16)	VAS-32	GW-38443-010818-KMV-023	1/8/2018	35-40 ft BGS		1485470.838	634634.022	X	X	X	X	X		X
WG	on-site (EU16)	VAS-32	GW-38443-010818-KMV-024	1/8/2018	40-45 ft BGS		1485470.838	634634.022	X		X				X
WG	on-site (EU16)	VAS-32	GW-38443-010818-KMV-025	1/8/2018	45-50 ft BGS		1485470.838	634634.022	X		X				X
WG	on-site (EU16)	VAS-32	GW-38443-010818-KMV-026	1/8/2018	50-60 ft BGS		1485470.838	634634.022	X	X	X	X	X		X
WG	on-site (EU16)	VAS-32	GW-38443-010818-KMV-027	1/8/2018	60-70 ft BGS		1485470.838	634634.022	X		X				X
WG	on-site (EU16)	VAS-32	GW-38443-010918-KVM-028	1/9/2018	70-80 ft BGS		1485470.838	634634.022	X		X				X
WG	on-site (EU16)	VAS-32	GW-38443-010918-KVM-029	1/9/2018	80-90 ft BGS		1485470.838	634634.022	X		X				X
WG	on-site (EU16)	VAS-32	GW-38443-010918-KVM-030	1/9/2018	90-100 ft BGS		1485470.838	634634.022	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011018-KVM-031	1/10/2018	25-30 ft BGS		1485449.456	633684.473	X	X	X	X	X		X
WG	on-site (EU13)	VAS-33	GW-38443-011018-KVM-032	1/10/2018	30-35 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011018-KVM-033	1/10/2018	30-35 ft BGS	Duplicate	1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011018-KVM-034	1/10/2018	35-40 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011018-KVM-035	1/10/2018	40-45 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011018-KVM-036	1/11/2018	45-50 ft BGS		1485449.456	633684.473	X	X	X	X	X		X
WG	on-site (EU13)	VAS-33	GW-38443-011118-KVM-037	1/11/2018	50-60 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011118-KVM-038	1/11/2018	60-70 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011618-KVM-039	1/16/2018	70-80 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011618-KVM-040	1/16/2018	70-80 ft BGS	Duplicate	1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011618-KVM-041	1/16/2018	80-90 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU13)	VAS-33	GW-38443-011718-KVM-042	1/17/2018	90-100 ft BGS		1485449.456	633684.473	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-021618-JC-078	2/16/2018	30-35 ft BGS		1485585.626	633731.412	X	X	X	X	X		X
WG	on-site (EU14)	VAS-34	GW-38443-021618-JC-079	2/16/2018	35-40 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-021918-JC-080	2/19/2018	40-45 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-021918-JC-081	2/19/2018	45-50 ft BGS		1485585.626	633731.412	X	X	X	X	X		X
WG	on-site (EU14)	VAS-34	GW-38443-022018-JC-082	2/20/2018	50-60 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022018-JC-083	2/20/2018	60-70 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022018-JC-084	2/20/2018	70-80 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022118-JC-085	2/21/2018	80-90 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022118-JC-086	2/21/2018	90-100 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022118-JC-087	2/21/2018	100-110 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022118-JC-088	2/21/2018	100-110 ft BGS	Duplicate	1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022218-JC-090	2/22/2018	110-120 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022218-JC-091	2/22/2018	120-130 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022218-JC-092	2/22/2018	130-140 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU14)	VAS-34	GW-38443-022318-JC-094	2/23/2018	140-150 ft BGS		1485585.626	633731.412	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-121817-KVM-006	12/18/2017	20-25 ft BGS		1485494.245	633187.105	X	X	X	X	X		X
WG	on-site (EU10)	VAS-35	GW-38443-121817-KVM-007	12/18/2017	25-30 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-121817-KVM-008	12/18/2017	35-40 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-121817-KVM-009	12/18/2017	40-45 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-121917-KVM-010	12/19/2017	45-50 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-121917-KVM-011	12/19/2017	45-50 ft BGS	Duplicate	1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-121917-KVM-012	12/19/2017	50-60 ft BGS		1485494.245	633187.105	X	X	X	X	X		X
WG	on-site (EU10)	VAS-35	GW-38443-121917-KVM-013	12/19/2017	60-70 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-122017-KVM-014	12/20/2017	70-80 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-122017-KVM-015	12/20/2017	80-90 ft BGS		1485494.245	633187.105	X		X				X

Table B5.1

Groundwater Sample List (October 2017 to February 2019)
South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Volatiles	Semi-Volatiles	Metals	PCBs	Pesticides	Herbicides	General Chemistry
WG	on-site (EU10)	VAS-35	GW-38443-122017-KVM-016	12/20/2017	90-100 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-122117-KVM-017	12/21/2017	100-110 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-122117-KVM-018	12/21/2017	110-120 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-010318-KVM-019	1/3/2018	120-130 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-010318-KVM-020	1/3/2018	130-140 ft BGS		1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-010318-KVM-021	1/3/2018	130-140 ft BGS	Duplicate	1485494.245	633187.105	X		X				X
WG	on-site (EU10)	VAS-35	GW-38443-010418-KVM-022	1/4/2018	140-150 ft BGS		1485494.245	633187.105	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100418-JC-194	10/4/2018	20-25 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100418-JC-195	10/4/2018	25-30 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100418-JC-196	10/4/2018	30-35 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100518-JC-197	10/5/2018	35-40 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100518-JC-199	10/5/2018	40-45 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100518-JC-200	10/5/2018	45-50 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100818-JC-201	10/8/2018	50-60 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100818-JC-202	10/8/2018	60-70 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100818-JC-203	10/8/2018	60-70 ft BGS	Duplicate	1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100818-JC-204	10/8/2018	70-80 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100918-JC-205	10/9/2018	80-90 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-100918-JC-206	10/9/2018	90-100 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-101018-JC-207	10/10/2018	100-110 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-101018-JC-208	10/10/2018	110-120 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-101018-JC-209	10/10/2018	110-120 ft BGS	Duplicate	1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-101118-JC-211	10/11/2018	120-130 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-101118-JC-212	10/11/2018	130-140 ft BGS		1485441.798	632818.606	X		X				X
WG	off-site (EU00)	VAS-36	GW-38443-101118-JC-213	10/11/2018	140-150 ft BGS		1485441.798	632818.606	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-091818-JC-172	9/18/2018	25-30 ft BGS		1484731.401	633352.821	X	X	X	X	X		X
WG	on-site (EU19)	VAS-37	GW-38443-091918-JC-173	9/19/2018	35-40 ft BGS		1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-091918-JC-174	9/19/2018	40-45 ft BGS		1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-091918-JC-175	9/19/2018	45-50 ft BGS		1484731.401	633352.821	X	X	X	X	X		X
WG	on-site (EU19)	VAS-37	GW-38443-092018-JC-176	9/20/2018	50-60 ft BGS		1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-092018-JC-177	9/20/2018	50-60 ft BGS	Duplicate	1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-092018-JC-179	9/20/2018	60-70 ft BGS		1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-092118-JC-180	9/21/2018	70-80 ft BGS		1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-092418-JC-181	9/24/2018	80-90 ft BGS		1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-37	GW-38443-092418-JC-182	9/24/2018	90-100 ft BGS		1484731.401	633352.821	X		X				X
WG	on-site (EU19)	VAS-38	GW-038443-020718-KVM-066	2/7/2018	15-20 ft BGS		1484133.88	633088.776	X	X	X	X	X		X
WG	on-site (EU19)	VAS-38	GW-038443-020718-KVM-067	2/7/2018	20-25 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-038443-020718-KVM-068	2/7/2018	20-25 ft BGS	Duplicate	1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-038443-020718-KVM-069	2/7/2018	25-30 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-038443-020718-KVM-070	2/7/2018	30-35 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-38443-020818-JC-071	2/8/2018	35-40 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-38443-020818-JC-072	2/8/2018	40-45 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-38443-020818-JC-073	2/8/2018	45-50 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-38443-020918-JC-074	2/9/2018	50-60 ft BGS		1484133.88	633088.776	X	X	X	X	X		X
WG	on-site (EU19)	VAS-38	GW-38443-021318-JC-075	2/13/2018	70-80 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-38443-021318-JC-076	2/13/2018	80-90 ft BGS		1484133.88	633088.776	X		X				X
WG	on-site (EU19)	VAS-38	GW-38443-021418-JC-077	2/14/2018	90-100 ft BGS		1484133.88	633088.776	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-012219-JC-214	1/22/2019	5-10 ft BGS		1483388.529	632853.263	X	X	X	X	X		X
WG	off-site (EU00)	VAS-39	GW-38443-012319-JC-215	1/23/2019	10-15 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-012319-JC-216	1/23/2019	15-20 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-012319-JC-217	1/23/2019	20-25 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-012319-JC-218	1/23/2019	25-30 ft BGS		1483388.529	632853.263	X	X	X	X	X		X
WG	off-site (EU00)	VAS-39	GW-38443-012919-JC-219	1/29/2019	30-40 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-012919-JC-220	1/29/2019	30-40 ft BGS	Duplicate	1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-020419-JC-221	2/4/2019	40-50 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-020519-JC-222	2/5/2019	60-70 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-020519-JC-223	2/5/2019	70-80 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-020519-JC-224	2/5/2019	80-90 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (EU00)	VAS-39	GW-38443-022019-JC-225	2/20/2019	90-100 ft BGS		1483388.529	632853.263	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-090718-JC-155	9/7/2018	30-35 ft BGS		1486292.604	634594.355	X		X				X

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South Dayton Dump and Landfill Site
Moraine, Ohio

Matrix	EU	Sample Location	Sample ID	Sample Date	Sample Depth	Sample Type	X	Y	Volatiles	Semi-Volatiles	Metals	PCBs	Pesticides	Herbicides	General Chemistry
WG	off-site (DP&L)	VAS-40	GW-38443-090718-JC-156	9/7/2018	35-40 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-090718-JC-157	9/7/2018	40-45 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091018-JC-158	9/10/2018	45-50 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091018-JC-159	9/10/2018	50-60 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091118-JC-160	9/11/2018	60-70 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091118-JC-161	9/11/2018	70-80 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091118-JC-162	9/11/2018	80-90 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091118-JC-163	9/11/2018	80-90 ft BGS	Duplicate	1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091218-JC-165	9/12/2018	90-100 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091218-JC-166	9/12/2018	100-110 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091318-JC-167	9/13/2018	110-120 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091318-JC-168	9/13/2018	120-130 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091418-JC-169	9/14/2018	130-140 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-40	GW-38443-091418-JC-170	9/14/2018	140-150 ft BGS		1486292.604	634594.355	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-081518-JC-120	8/15/2018	30-35 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-081618-JC-121	8/16/2018	35-40 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-081618-JC-122	8/16/2018	40-45 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-081618-JC-123	8/16/2018	45-50 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-081718-JC-124	8/17/2018	50-60 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-081718-JC-125	8/17/2018	50-60 ft BGS	Duplicate	1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-081718-JC-126	8/17/2018	80-90 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-082018-JC-127	8/20/2018	90-100 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-082118-JC-128	8/21/2018	100-110 ft BGS		1486032.64	633923.377	X						
WG	off-site (DP&L)	VAS-42	GW-38443-082118-JC-130	8/21/2018	110-120 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-082118-JC-131	8/21/2018	120-130 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-082218-JC-132	8/22/2018	130-140 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-42	GW-38443-082218-JC-133	8/22/2018	140-150 ft BGS		1486032.64	633923.377	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082318-JC-134	8/23/2018	25-30 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082318-JC-135	8/23/2018	25-30 ft BGS	Duplicate	1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082318-JC-136	8/23/2018	30-35 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082318-JC-137	8/23/2018	35-40 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082418-JC-138	8/24/2018	40-45 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082418-JC-139	8/24/2018	45-50 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082418-JC-140	8/24/2018	50-60 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082718-JC-141	8/27/2018	60-70 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082718-JC-143	8/27/2018	70-80 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082818-JC-144	8/28/2018	80-90 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082818-JC-145	8/28/2018	90-100 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082918-JC-146	8/29/2018	100-110 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082918-JC-147	8/29/2018	110-120 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-082918-JC-148	8/29/2018	120-130 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-083018-JC-149	8/30/2018	130-140 ft BGS		1485756.053	633690.265	X		X				X
WG	off-site (DP&L)	VAS-43	GW-38443-083118-JC-150	8/31/2018	140-150 ft BGS		1485756.053	633690.265	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-012518-KVM-051	1/25/2018	25-30 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-012618-KVM-052	1/26/2018	30-35 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-038443-012918-KVM-053	1/29/2018	35-40 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-038443-012918-KVM-054	1/29/2018	40-45 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-038443-012918-KVM-055	1/29/2018	45-50 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-013018-KVM-056	1/30/2018	50-60 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-013018-KVM-057	1/30/2018	50-60 ft BGS	Duplicate	1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-013018-KVM-058	1/30/2018	70-80 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-013118-KVM-059	1/31/2018	80-90 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-013118-KVM-060	1/31/2018	90-100 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-020118-KVM-061	2/1/2018	100-110 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-020118-KVM-062	2/1/2018	110-120 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-020518-KVM-063	2/5/2018	120-130 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-38443-020518-KVM-064	2/5/2018	130-140 ft BGS		1485707.831	634272.62	X		X				X
WG	on-site (EU15)	VAS-44	GW-038443-020618-KVM-065	2/6/2018	140-150 ft BGS		1485707.831	634272.62	X		X				X

Appendix C
Data Validation Reports

Memorandum

November 27, 2017

To:	Julian Hayward	Ref. No.:	038443-360
From:	Angela Bown/cs/33-NF	Tel:	513-942-4750
CC:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

1. Introduction

This document details a validation of analytical results for water samples collected in support of the Monitoring Well Sampling Program at the Moraine, Ohio site during October 2017. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is

analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 External Standard Calibration – Fumigants and Herbicides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the correlation coefficient (R) is 0.995 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the methods.

4.2.2 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent, or

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide, Anions	85 - 115%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

All method blank results were non-detect indicating that laboratory contamination was not a factor for this investigation.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 5).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Due to dilutions ($\geq$5 times) that were necessary to successfully analyze the samples, some surrogate recoveries could not be assessed.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries that could be assessed were within the laboratory criteria.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were acceptable demonstrating adequate analytical performance.

11. Laboratory Control Sample Analyses

LCS and/or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. All LCS recoveries and RPDs were within the laboratory control limits, demonstrating acceptable analytical accuracy and precision with the exception of chloroform that recovered with high bias in one LCS. The associated non-detect sample results were not impacted. Table 6 presents the qualified sample result.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits, demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed. If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values were within the laboratory control limits, demonstrating

acceptable analytical accuracy and precision with the exception of the sample results presented with qualifiers in Table 7.

12.2 Inorganic Analyses

The MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values were within the control limits, demonstrating acceptable analytical accuracy and precision with the exception of the sample results presented with qualifiers in Table 7.

13. Matrix Spike Analyses

To evaluate the effects of sample matrices on the preparation, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS samples. For this study, MS samples were prepared and analyzed by the laboratory as specified in Table 1.

The MS results were evaluated per the "Guidelines". In accordance with the "Guidelines", MS recoveries for samples with analyte concentrations significantly greater than the spike concentrations could not be assessed.

All MS analyses performed were acceptable demonstrating acceptable analytical accuracy.

14. Duplicate Sample Analyses – Inorganic Analyses

Analytical precision is evaluated based on the analysis of laboratory duplicate samples. For this study, duplicate samples were prepared and analyzed by the laboratory as specified in Table 1. The duplicate results were evaluated per the "Guidelines".

All duplicate analyses performed were acceptable, demonstrating acceptable analytical precision.

15. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

16. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and

are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the “Guidelines” of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

17. Field QA/QC Samples

The field QA/QC consisted of three trip blank samples, one rinse blank sample, and one field duplicate sample set.

17.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, three trip blank samples were submitted to the laboratory for VOC analysis. All results were non-detect for the compounds of interest.

17.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, one rinse blank sample was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest with the exception of a few low level metals. Table 8 presents the sample results that were qualified as non-detect due to results that were similar to the rinse blank sample.

17.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

All field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision.

18. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte. Positive analyte detections less than the RL but greater than the MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the MDL in Table 2.

19. Miscellaneous

19.1 Dual Column Reporting

GC analyses were performed using dual column analyses. In general, the results showed good correlation between the two columns (<40 RPD). Variability was observed between some of the results (see Table 9). The associated data were qualified as estimated to reflect the indicated variability.

19.2 Total versus Dissolved Analytes

Most dissolved metals results were less than the total results or were within the normal variability of the method (20%D). The dissolved potassium result for sample GW-38443-100417-DA-008 was greater than the total result and was in exceedance of the method variability. The associated results were qualified as estimated in Table 10.

20. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

21. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**Herbicides**	**PCBs**	**Fumigants**	**Select Metals***	**Mercury***	**Cyanide**	**Anions**	**Comments**
GW-38443-100317-SCT-001	MW-210B	Water	10/03/2017	13:10	X	X	X	X	X	X	X	X	X	X	MS/MSD
GW-38443-100317-DA-002	MW-210A	Water	10/03/2017	11:50	X	X	X	X	X	X	X	X	X	X	
GW-38443-100317-DA-003	MW-210	Water	10/03/2017	14:15	X	X	X	X	X	X			X	X	
TB-38443-100317-JC-001	-	Water	10/03/2017	-	X										Trip Blank
GW-38443-100417-DA-004	MW-227	Water	10/04/2017	09:10	X	X	X	X	X	X	X	X	X	X	MS
GW-38443-100417-DA-005	MW-227	Water	10/04/2017	09:55	X	X	X	X	X	X	X	X	X	X	FD(GW-38443-100417-DA-004); MS/MSD/DUP
GW-38443-100417-SCT-006	MW-208	Water	10/04/2017	10:05	X	X	X	X	X	X	X	X	X	X	MS
GW-38443-100417-SCT-007	MW-226	Water	10/04/2017	10:35	X	X	X	X	X	X	X	X	X	X	
GW-38443-100417-DA-008	MW-206	Water	10/04/2017	13:20	X	X	X	X	X	X	X	X	X	X	
GW-38443-100417-SCT-009	MW-207	Water	10/04/2017	15:00	X	X	X	X	X	X	X	X	X	X	
TB-38443-100417-JC-002	-	Water	10/04/2017	-	X										Trip Blank
RB-38443-100517-DA-001	-	Water	10/05/2017	09:45	X	X	X	X	X	X	X	X	X	X	Equipment Blank
GW-38443-100517-DA-010	MW-218A	Water	10/05/2017	12:30	X	X	X	X	X	X	X	X	X	X	MS/MSD
GW-38443-100517-SCT-011	MW-218B	Water	10/05/2017	13:05	X	X	X	X	X	X	X	X	X	X	
GW-38443-100517-DA-012	MW-225	Water	10/05/2017	15:15	X	X	X	X	X	X	X	X	X	X	
TB-38443-100517-JC-003	-	Water	10/05/2017	-	X										Trip Blank
GW-38443-100617-DA-013	MW-210	Water	10/06/2017	09:50							X	X			

Notes:

*	- Total and Dissolved
DUP	- Laboratory Duplicate
FD	- Field Duplicate sample of sample in parenthesis
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
VOCs	- Volatile Organic Compounds
SVOCs	- Semi-volatile Organic Compounds
PCBs	- Polychlorinated Biphenyls
-	- Not applicable

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-206**	**MW-207**	**MW-208**	**MW-210**
Sample Name:		**GW-38443-100417-DA-008**	**GW-38443-100417-SCT-009**	**GW-38443-100417-SCT-006**	**GW-38443-100317-DA-003**
Sample Date:		**10/04/2017**	**10/04/2017**	**10/04/2017**	**10/03/2017**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.46 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.64 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.68 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.50 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.54 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.54 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.52 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.60 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.60 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.64 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.46 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	2.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	2.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	1.4 U
Acetone	µg/L	1.8 U	3.0 J	2.6 J	3.5 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.56 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.60 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.86 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.84 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.68 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.70 UJ
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.64 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.82 UJ
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.62 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.86 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.67 J	12
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.52 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.88 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.50 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	1.0 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.52 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.42 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.48 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	2.9 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.90 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.54 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	1.1 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.56 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-206	MW-207	MW-208	MW-210
	Sample Name:	GW-38443-100417-DA-008	GW-38443-100417-SCT-009	GW-38443-100417-SCT-006	GW-38443-100317-DA-003
	Sample Date:	10/04/2017	10/04/2017	10/04/2017	10/03/2017
Parameters	**Unit**				
Volatile Organic Compounds					
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.46 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.60 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.46 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.58 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.62 U
Trichloroethene	µg/L	0.33 U	0.33 U	1.4	47
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.82 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.90 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.48 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.42 U	0.40 U	0.39 U	0.40 U
2,4,5-Trichlorophenol	µg/L	0.31 U	0.30 U	0.29 U	0.30 U
2,4,6-Trichlorophenol	µg/L	0.25 U	0.24 U	0.23 U	0.24 U
2,4-Dichlorophenol	µg/L	0.20 U	0.19 U	0.18 U	0.19 U
2,4-Dimethylphenol	µg/L	0.26 U	0.25 U	0.24 U	0.25 U
2,4-Dinitrophenol	µg/L	0.33 U	0.32 U	0.31 U	0.32 U
2,4-Dinitrotoluene	µg/L	0.26 U	0.25 U	0.24 U	0.25 U
2,6-Dinitrotoluene	µg/L	0.83 U	0.79 U	0.78 U	0.80 U
2-Chloronaphthalene	µg/L	0.10 U	0.099 U	0.097 U	0.10 U
2-Chlorophenol	µg/L	0.30 U	0.29 U	0.28 U	0.29 U
2-Methylnaphthalene	µg/L	0.094 U	0.090 U	0.088 U	0.090 U
2-Methylphenol	µg/L	0.18 U	0.17 U	0.17 U	0.17 U
2-Nitroaniline	µg/L	0.22 U	0.21 U	0.20 U	0.21 U
2-Nitrophenol	µg/L	0.29 U	0.28 U	0.27 U	0.28 U
3&4-Methylphenol	µg/L	0.83 U	0.79 U	0.78 U	0.80 U
3,3'-Dichlorobenzidine	µg/L	0.39 U	0.37 U	0.36 U	0.37 U
3-Nitroaniline	µg/L	0.29 U	0.28 U	0.27 U	0.28 U
4,6-Dinitro-2-methylphenol	µg/L	2.5 U	2.4 U	2.3 U	2.4 U
4-Bromophenyl phenyl ether	µg/L	0.23 U	0.22 U	0.21 U	0.22 U
4-Chloro-3-methylphenol	µg/L	0.22 U	0.21 U	0.20 U	0.21 U
4-Chloroaniline	µg/L	0.22 U	0.21 U	0.20 U	0.21 U
4-Chlorophenyl phenyl ether	µg/L	0.31 U	0.30 U	0.29 U	0.30 U
4-Nitroaniline	µg/L	0.23 U	0.22 U	0.21 U	0.22 U
4-Nitrophenol	µg/L	0.30 U	0.29 U	0.28 U	0.29 U
Acenaphthene	µg/L	0.046 U	0.044 U	0.043 U	0.044 U
Acenaphthylene	µg/L	0.050 U	0.048 U	0.047 U	0.048 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-206	MW-207	MW-208	MW-210
	Sample Name:	GW-38443-100417-DA-008	GW-38443-100417-SCT-009	GW-38443-100417-SCT-006	GW-38443-100317-DA-003
	Sample Date:	10/04/2017	10/04/2017	10/04/2017	10/03/2017
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acetophenone	µg/L	0.35 U	0.34 U	0.33 U	0.34 U
Anthracene	µg/L	0.092 U	0.087 U	0.085 U	0.088 U
Atrazine	µg/L	0.35 U	0.34 U	0.33 U	0.34 U
Benzaldehyde	µg/L	0.41 U	0.39 U	0.38 U	0.39 U
Benzo(a)anthracene	µg/L	0.031 U	0.029 U	0.029 U	0.030 U
Benzo(a)pyrene	µg/L	0.054 U	0.051 U	0.050 U	0.051 U
Benzo(b)fluoranthene	µg/L	0.041 U	0.039 U	0.038 U	0.039 U
Benzo(g,h,i)perylene	µg/L	0.048 U	0.046 U	0.045 U	0.046 U
Benzo(k)fluoranthene	µg/L	0.047 U	0.044 U	0.043 U	0.045 U
Biphenyl (1,1-Biphenyl)	µg/L	0.14 U	0.13 U	0.13 U	0.13 U
bis(2-Chloroethoxy)methane	µg/L	0.33 U	0.32 U	0.31 U	0.32 U
bis(2-Chloroethyl)ether	µg/L	0.10 U	0.099 U	0.097 U	0.10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.8 U	1.7 U	1.7 U	1.7 U
Butyl benzylphthalate (BBP)	µg/L	0.27 U	0.26 U	0.25 U	0.26 U
Caprolactam	µg/L	0.21 U	0.20 U	0.19 U	0.20 U
Carbazole	µg/L	0.29 U	0.28 U	0.27 U	0.28 U
Chrysene	µg/L	0.052 U	0.050 U	0.049 U	0.050 U
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.7 U	1.7 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.24 U	0.23 U	0.22 U	0.23 U
Dibenz(a,h)anthracene	µg/L	0.046 U	0.044 U	0.043 U	0.045 U
Dibenzofuran	µg/L	0.021 U	0.020 U	0.019 U	0.020 U
Diethyl phthalate	µg/L	0.62 U	0.59 U	0.58 U	0.60 U
Dimethyl phthalate	µg/L	0.30 U	0.29 U	0.28 U	0.29 U
Fluoranthene	µg/L	0.046 U	0.044 U	0.043 U	0.045 U
Fluorene	µg/L	0.042 U	0.040 U	0.039 U	0.041 U
Hexachlorobenzene	µg/L	0.089 U	0.084 U	0.083 U	0.085 U
Hexachlorobutadiene	µg/L	0.28 U	0.27 U	0.26 U	0.27 U
Hexachlorocyclopentadiene	µg/L	0.25 UJ	0.24 UJ	0.23 UJ	0.24 U
Hexachloroethane	µg/L	0.20 U	0.19 U	0.18 U	0.19 U
Indeno(1,2,3-cd)pyrene	µg/L	0.045 U	0.043 U	0.042 U	0.043 U
Isophorone	µg/L	0.28 U	0.27 U	0.26 U	0.27 U
N-Nitrosodi-n-propylamine	µg/L	0.25 U	0.24 U	0.23 U	0.24 U
N-Nitrosodiphenylamine	µg/L	0.32 U	0.31 U	0.30 U	0.31 U
Naphthalene	µg/L	0.065 U	0.062 U	0.061 U	0.063 U
Nitrobenzene	µg/L	0.042 U	0.040 U	0.039 U	0.040 U
Pentachlorophenol	µg/L	0.28 U	0.27 U	0.26 U	0.27 U
Phenanthrene	µg/L	0.064 U	0.061 U	0.060 U	0.062 U
Phenol	µg/L	0.62 U	0.59 U	0.58 U	0.60 U
Pyrene	µg/L	0.044 U	0.042 U	0.041 U	0.042 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-206	MW-207	MW-208	MW-210
	Sample Name:	GW-38443-100417-DA-008	GW-38443-100417-SCT-009	GW-38443-100417-SCT-006	GW-38443-100317-DA-003
	Sample Date:	10/04/2017	10/04/2017	10/04/2017	10/03/2017
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
2,4,5-TP (Silvex)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
Pesticides/PCBs					
4,4'-DDD	µg/L	0.019 U	0.018 U	0.018 U	0.018 U
4,4'-DDE	µg/L	0.012 U	0.012 U	0.012 U	0.012 U
4,4'-DDT	µg/L	0.018 U	0.017 U	0.017 U	0.017 U
Aldrin	µg/L	0.013 U	0.013 U	0.013 U	0.013 U
alpha-BHC	µg/L	0.014 U	0.014 U	0.014 U	0.014 U
alpha-Chlordane	µg/L	0.012 U	0.012 U	0.012 U	0.012 U
Aroclor-1016 (PCB-1016)	µg/L	0.053 U	0.049 U	0.048 U	0.051 U
Aroclor-1221 (PCB-1221)	µg/L	0.095 U	0.088 U	0.087 U	0.091 U
Aroclor-1232 (PCB-1232)	µg/L	0.074 U	0.069 U	0.067 U	0.071 U
Aroclor-1242 (PCB-1242)	µg/L	0.063 U	0.059 U	0.058 U	0.061 U
Aroclor-1248 (PCB-1248)	µg/L	0.053 U	0.049 U	0.048 U	0.051 U
Aroclor-1254 (PCB-1254)	µg/L	0.032 U	0.029 U	0.029 U	0.030 U
Aroclor-1260 (PCB-1260)	µg/L	0.042 U	0.039 U	0.038 U	0.040 U
beta-BHC	µg/L	0.019 U	0.018 U	0.018 U	0.018 U
delta-BHC	µg/L	0.030 U	0.029 U	0.029 U	0.030 U
Dieldrin	µg/L	0.013 U	0.013 U	0.013 U	0.013 U
Endosulfan I	µg/L	0.016 U	0.016 U	0.016 U	0.016 U
Endosulfan II	µg/L	0.015 U	0.015 U	0.015 U	0.015 U
Endosulfan sulfate	µg/L	0.015 U	0.015 U	0.015 U	0.015 U
Endrin	µg/L	0.013 U	0.013 U	0.013 U	0.013 U
Endrin aldehyde	µg/L	0.019 U	0.018 U	0.018 U	0.018 U
Endrin ketone	µg/L	0.016 U	0.016 U	0.016 U	0.016 U
gamma-BHC (lindane)	µg/L	0.013 U	0.013 U	0.013 U	0.013 U
gamma-Chlordane	µg/L	0.013 U	0.013 U	0.013 U	0.013 U
Heptachlor	µg/L	0.014 U	0.014 U	0.014 U	0.014 U
Heptachlor epoxide	µg/L	0.015 U	0.015 U	0.015 U	0.015 U
Methoxychlor	µg/L	0.013 U	0.013 U	0.013 U	0.013 U
Toxaphene	µg/L	0.20 U	0.19 U	0.19 U	0.20 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-206	MW-207	MW-208	MW-210
	Sample Name:	GW-38443-100417-DA-008	GW-38443-100417-SCT-009	GW-38443-100417-SCT-006	GW-38443-100317-DA-003
	Sample Date:	10/04/2017	10/04/2017	10/04/2017	10/03/2017
Parameters	**Unit**				
Metals					
Aluminum	µg/L	55	930	85	--
Aluminum (dissolved)	µg/L	34 U	34 U	43 J	--
Antimony	µg/L	0.57 U	0.57 U	0.57 U	--
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	--
Arsenic	µg/L	1.1 J	4.1 J	0.75 U	--
Arsenic (dissolved)	µg/L	1.0 J	3.3 J	0.75 U	--
Barium	µg/L	140	200	140	--
Barium (dissolved)	µg/L	140	190	130	--
Beryllium	µg/L	0.31 U	0.31 U	0.32 J	--
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	--
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	--
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	--
Calcium	µg/L	140000	130000	130000	--
Calcium (dissolved)	µg/L	140000	130000	130000	--
Chromium	µg/L	0.98 U	0.98 U	0.98 U	--
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	--
Cobalt	µg/L	0.24 J	0.99 J	2.4	--
Cobalt (dissolved)	µg/L	0.20 J	0.66 J	1.7	--
Copper	µg/L	2.2	1.9 J	1.7 U	--
Copper (dissolved)	µg/L	2.4	1.7 U	1.7 U	--
Iron	µg/L	47 U	3600	200	--
Iron (dissolved)	µg/L	47 U	2700	47 U	--
Lead	µg/L	0.45 U	1.2	0.45 U	--
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	--
Magnesium	µg/L	29000	34000	46000	--
Magnesium (dissolved)	µg/L	29000	34000	45000	--
Manganese	µg/L	190	690	710	--
Manganese (dissolved)	µg/L	180	680	560	--

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-206	MW-207	MW-208	MW-210
	Sample Name:	GW-38443-100417-DA-008	GW-38443-100417-SCT-009	GW-38443-100417-SCT-006	GW-38443-100317-DA-003
	Sample Date:	10/04/2017	10/04/2017	10/04/2017	10/03/2017
Parameters	**Unit**				
Metals					
Mercury	µg/L	0.13 U	0.13 U	0.13 U	--
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	--
Nickel	µg/L	1.5 U	1.5 U	1.5 U	--
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	--
Potassium	µg/L	2500 J	4100	8000	--
Potassium (dissolved)	µg/L	4900 J	4000	9200	--
Selenium	µg/L	1.9 J	0.89 U	16	--
Selenium (dissolved)	µg/L	1.7 J	0.89 U	16	--
Silver	µg/L	0.053 U	0.053 U	0.065 U	--
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	--
Sodium	µg/L	14000	16000	110000	--
Sodium (dissolved)	µg/L	14000	17000	110000	--
Thallium	µg/L	0.20 U	0.20 U	0.90 J	--
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.21 J	--
Vanadium	µg/L	0.82 U	2.0 J	0.82 U	--
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	--
Zinc	µg/L	15 U	16 J	15 U	--
Zinc (dissolved)	µg/L	15 U	15 U	15 U	--

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-206**	**MW-207**	**MW-208**	**MW-210**
	Sample Name:	**GW-38443-100417-DA-008**	**GW-38443-100417-SCT-009**	**GW-38443-100417-SCT-006**	**GW-38443-100317-DA-003**
	Sample Date:	**10/04/2017**	**10/04/2017**	**10/04/2017**	**10/03/2017**
Parameters	**Unit**				
General Chemistry					
Chloride	µg/L	24000	35000	180000	120000
Cyanide (total)	µg/L	5.0 U	5.0 U	86	5.0 UJ
Nitrate (as N)	µg/L	13000	4400	6100	14 U
Nitrite (as N)	µg/L	36 J	260	78 J	14 U
Sulfate	µg/L	57000	61000	79000	58000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0084 U	0.0084 U	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U	0.0071 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		MW-210	MW-210A	MW-210B	MW-218A
Sample Name:		GW-38443-100617-DA-013	GW-38443-100317-DA-002	GW-38443-100317-SCT-001	GW-38443-100517-DA-010
Sample Date:		10/06/2017	10/03/2017	10/03/2017	10/05/2017
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	--	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	--	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	--	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	--	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	--	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	--	0.27 U	0.27 U	0.27 UJ
1,2-Dichlorobenzene	µg/L	--	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	--	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	--	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	--	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	--	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	--	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	--	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	--	0.71 U	0.71 U	0.71 U
Acetone	µg/L	--	1.8 U	1.8 U	1.8 UJ
Benzene	µg/L	--	0.28 U	4.0	0.28 U
Bromodichloromethane	µg/L	--	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	--	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	--	0.42 U	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	--	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	--	0.35 UJ	0.35 U	0.35 U
Chlorobenzene	µg/L	--	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	--	0.41 UJ	0.41 UJ	0.41 U
Chloroform (Trichloromethane)	µg/L	--	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	--	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	--	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	--	0.26 U	0.26 U	0.26 UJ
Cyclohexane	µg/L	--	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	--	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	--	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	--	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	--	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	--	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	--	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	--	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	--	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	--	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	--	0.28 U	0.28 U	0.28 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		MW-210	MW-210A	MW-210B	MW-218A
Sample Name:		GW-38443-100617-DA-013	GW-38443-100317-DA-002	GW-38443-100317-SCT-001	GW-38443-100517-DA-010
Sample Date:		10/06/2017	10/03/2017	10/03/2017	10/05/2017
Parameters	**Unit**				
Volatile Organic Compounds					
Styrene	µg/L	--	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	--	0.30 U	0.30 U	0.30 U
Toluene	µg/L	--	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	--	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	--	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	--	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	--	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	--	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	--	24	0.45 U	0.45 U
Xylenes (total)	µg/L	--	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	0.42 U	0.38 U	0.40 U
2,4,5-Trichlorophenol	µg/L	--	0.32 U	0.29 U	0.30 U
2,4,6-Trichlorophenol	µg/L	--	0.25 U	0.23 U	0.24 U
2,4-Dichlorophenol	µg/L	--	0.20 U	0.18 U	0.19 U
2,4-Dimethylphenol	µg/L	--	0.26 U	0.24 U	0.25 U
2,4-Dinitrophenol	µg/L	--	0.34 U	0.31 U	0.32 U
2,4-Dinitrotoluene	µg/L	--	0.26 U	0.24 U	0.25 U
2,6-Dinitrotoluene	µg/L	--	0.84 U	0.77 U	0.80 U
2-Chloronaphthalene	µg/L	--	0.11 U	0.096 U	0.10 U
2-Chlorophenol	µg/L	--	0.31 U	0.28 U	0.29 U
2-Methylnaphthalene	µg/L	--	0.095 U	0.087 U	0.090 U
2-Methylphenol	µg/L	--	0.18 U	0.16 U	0.17 U
2-Nitroaniline	µg/L	--	0.22 U	0.20 U	0.21 U
2-Nitrophenol	µg/L	--	0.29 U	0.27 U	0.28 U
3&4-Methylphenol	µg/L	--	0.84 U	0.77 U	0.80 U
3,3'-Dichlorobenzidine	µg/L	--	0.39 U	0.36 U	0.37 U
3-Nitroaniline	µg/L	--	0.29 U	0.27 U	0.28 U
4,6-Dinitro-2-methylphenol	µg/L	--	2.5 U	2.3 U	2.4 U
4-Bromophenyl phenyl ether	µg/L	--	0.23 U	0.21 U	0.22 U
4-Chloro-3-methylphenol	µg/L	--	0.22 U	0.20 U	0.21 U
4-Chloroaniline	µg/L	--	0.22 U	0.20 U	0.21 U
4-Chlorophenyl phenyl ether	µg/L	--	0.32 U	0.29 U	0.30 U
4-Nitroaniline	µg/L	--	0.23 U	0.21 U	0.22 U
4-Nitrophenol	µg/L	--	0.31 U	0.28 U	0.29 U
Acenaphthene	µg/L	--	0.047 U	0.043 U	0.044 U
Acenaphthylene	µg/L	--	0.051 U	0.046 U	0.048 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-210**	**MW-210A**	**MW-210B**	**MW-218A**
Sample Name:		**GW-38443-100617-DA-013**	**GW-38443-100317-DA-002**	**GW-38443-100317-SCT-001**	**GW-38443-100517-DA-010**
Sample Date:		**10/06/2017**	**10/03/2017**	**10/03/2017**	**10/05/2017**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acetophenone	µg/L	--	0.36 U	0.33 U	0.34 U
Anthracene	µg/L	--	0.093 U	0.085 U	0.088 U
Atrazine	µg/L	--	0.36 U	0.33 U	0.34 U
Benzaldehyde	µg/L	--	0.41 U	0.37 U	0.39 U
Benzo(a)anthracene	µg/L	--	0.031 U	0.028 U	0.030 U
Benzo(a)pyrene	µg/L	--	0.054 U	0.049 U	0.051 U
Benzo(b)fluoranthene	µg/L	--	0.041 U	0.038 U	0.039 U
Benzo(g,h,i)perylene	µg/L	--	0.049 U	0.045 U	0.046 U
Benzo(k)fluoranthene	µg/L	--	0.047 U	0.043 U	0.045 U
Biphenyl (1,1-Biphenyl)	µg/L	--	0.14 U	0.13 U	0.13 U
bis(2-Chloroethoxy)methane	µg/L	--	0.34 U	0.31 U	0.32 U
bis(2-Chloroethyl)ether	µg/L	--	0.11 U	0.096 U	0.10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	1.8 U	1.6 U	1.7 U
Butyl benzylphthalate (BBP)	µg/L	--	0.27 U	0.25 U	0.26 U
Caprolactam	µg/L	--	0.35 J	0.19 U	0.27 J
Carbazole	µg/L	--	0.29 U	0.27 U	0.28 U
Chrysene	µg/L	--	0.053 U	0.048 U	0.050 U
Di-n-butylphthalate (DBP)	µg/L	--	1.8 U	1.6 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	--	0.24 U	0.22 U	0.23 U
Dibenz(a,h)anthracene	µg/L	--	0.047 U	0.043 U	0.045 U
Dibenzofuran	µg/L	--	0.021 U	0.019 U	0.020 U
Diethyl phthalate	µg/L	--	0.63 U	0.58 U	0.60 U
Dimethyl phthalate	µg/L	--	0.31 U	0.28 U	0.29 U
Fluoranthene	µg/L	--	0.047 U	0.043 U	0.045 U
Fluorene	µg/L	--	0.043 U	0.039 U	0.041 U
Hexachlorobenzene	µg/L	--	0.090 U	0.082 U	0.085 U
Hexachlorobutadiene	µg/L	--	0.28 U	0.26 U	0.27 U
Hexachlorocyclopentadiene	µg/L	--	0.25 U	0.23 U	0.24 U
Hexachloroethane	µg/L	--	0.20 U	0.18 U	0.19 U
Indeno(1,2,3-cd)pyrene	µg/L	--	0.046 U	0.042 U	0.043 U
Isophorone	µg/L	--	0.28 U	0.26 U	0.27 U
N-Nitrosodi-n-propylamine	µg/L	--	0.25 U	0.23 U	0.24 U
N-Nitrosodiphenylamine	µg/L	--	0.33 U	0.30 U	0.31 U
Naphthalene	µg/L	--	0.066 U	0.060 U	0.063 U
Nitrobenzene	µg/L	--	0.042 U	0.038 U	0.040 U
Pentachlorophenol	µg/L	--	0.28 U	0.26 U	0.27 U
Phenanthrene	µg/L	--	0.065 U	0.060 U	0.062 U
Phenol	µg/L	--	0.63 U	0.58 U	0.60 U
Pyrene	µg/L	--	0.044 U	0.040 U	0.042 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-210**	**MW-210A**	**MW-210B**	**MW-218A**
Sample Name:		**GW-38443-100617-DA-013**	**GW-38443-100317-DA-002**	**GW-38443-100317-SCT-001**	**GW-38443-100517-DA-010**
Sample Date:		**10/06/2017**	**10/03/2017**	**10/03/2017**	**10/05/2017**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	0.24 U	0.24 U	0.24 U
2,4,5-TP (Silvex)	µg/L	--	0.20 U	0.20 U	0.20 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	1.1 U	1.1 U	1.1 U
Pesticides/PCBs					
4,4'-DDD	µg/L	--	0.018 U	0.34 U	0.018 U
4,4'-DDE	µg/L	--	0.012 U	0.23 U	0.012 U
4,4'-DDT	µg/L	--	0.017 U	0.32 U	0.017 U
Aldrin	µg/L	--	0.013 U	0.25 U	0.013 U
alpha-BHC	µg/L	--	0.014 U	0.27 U	0.014 U
alpha-Chlordane	µg/L	--	0.012 U	0.23 U	0.012 U
Aroclor-1016 (PCB-1016)	µg/L	--	0.050 U	0.050 U	0.051 U
Aroclor-1221 (PCB-1221)	µg/L	--	0.090 U	0.089 U	0.092 U
Aroclor-1232 (PCB-1232)	µg/L	--	0.070 U	0.069 U	0.071 U
Aroclor-1242 (PCB-1242)	µg/L	--	0.060 U	0.059 U	0.061 U
Aroclor-1248 (PCB-1248)	µg/L	--	0.050 U	0.050 U	0.051 U
Aroclor-1254 (PCB-1254)	µg/L	--	0.030 U	0.030 U	0.031 U
Aroclor-1260 (PCB-1260)	µg/L	--	0.040 U	0.040 U	0.041 U
beta-BHC	µg/L	--	0.018 U	0.34 U	0.018 U
delta-BHC	µg/L	--	0.029 U	0.55 U	0.029 U
Dieldrin	µg/L	--	0.013 U	0.25 U	0.013 U
Endosulfan I	µg/L	--	0.016 U	0.30 U	0.016 U
Endosulfan II	µg/L	--	0.015 U	0.29 U	0.015 U
Endosulfan sulfate	µg/L	--	0.015 U	0.29 U	0.015 U
Endrin	µg/L	--	0.013 U	0.25 U	0.013 U
Endrin aldehyde	µg/L	--	0.018 U	0.34 U	0.018 U
Endrin ketone	µg/L	--	0.016 U	0.30 U	0.016 U
gamma-BHC (lindane)	µg/L	--	0.013 U	0.25 U	0.013 U
gamma-Chlordane	µg/L	--	0.013 U	0.25 U	0.013 U
Heptachlor	µg/L	--	0.014 U	0.27 U	0.014 U
Heptachlor epoxide	µg/L	--	0.015 U	0.29 U	0.015 U
Methoxychlor	µg/L	--	0.013 U	0.25 U	0.013 U
Toxaphene	µg/L	--	0.19 U	3.7 U	0.20 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-210**	**MW-210A**	**MW-210B**	**MW-218A**
	Sample Name:	**GW-38443-100617-DA-013**	**GW-38443-100317-DA-002**	**GW-38443-100317-SCT-001**	**GW-38443-100517-DA-010**
	Sample Date:	**10/06/2017**	**10/03/2017**	**10/03/2017**	**10/05/2017**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	61	430	88	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 J	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	0.75 U	3.2 J	8.1	0.75 U
Arsenic (dissolved)	µg/L	0.75 U	2.9 J	8.2	0.75 U
Barium	µg/L	120	94	630	95
Barium (dissolved)	µg/L	110	93	630	97
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.48 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	1.6	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.50 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.37 J	0.21 U
Calcium	µg/L	110000	100000	83000	42000
Calcium (dissolved)	µg/L	110000	100000	83000	41000
Chromium	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.96 J	0.36 J	0.59 J	0.26 U
Cobalt (dissolved)	µg/L	0.85 J	0.19 U	0.52 J	0.19 U
Copper	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	200	2700	4500	47 U
Iron (dissolved)	µg/L	64 J	2300	4500	47 U
Lead	µg/L	0.45 U	0.52 J	0.61 J	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	39000	36000	40000	28000
Magnesium (dissolved)	µg/L	38000	38000	41000	28000
Manganese	µg/L	610	190	37	77
Manganese (dissolved)	µg/L	590	170	35	76

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-210**	**MW-210A**	**MW-210B**	**MW-218A**
Sample Name:		**GW-38443-100617-DA-013**	**GW-38443-100317-DA-002**	**GW-38443-100317-SCT-001**	**GW-38443-100517-DA-010**
Sample Date:		**10/06/2017**	**10/03/2017**	**10/03/2017**	**10/05/2017**
Parameters	**Unit**				
Metals					
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 J	1.5 U	1.5 U	1.5 J
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	7100	3900	5400	5400
Potassium (dissolved)	µg/L	7100	4800	5200	5500
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.81 J	0.080 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	71000	48000	36000	25000
Sodium (dissolved)	µg/L	71000	41000	37000	25000
Thallium	µg/L	0.20 U	0.20 U	0.57 J	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.63 J	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	15 U	15 U	15 U	15 U
Zinc (dissolved)	µg/L	15 U	15 U	15 U	15 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-210**	**MW-210A**	**MW-210B**	**MW-218A**
Sample Name:		**GW-38443-100617-DA-013**	**GW-38443-100317-DA-002**	**GW-38443-100317-SCT-001**	**GW-38443-100517-DA-010**
Sample Date:		**10/06/2017**	**10/03/2017**	**10/03/2017**	**10/05/2017**
Parameters	**Unit**				
General Chemistry					
Chloride	µg/L	--	78000	70000	38000
Cyanide (total)	µg/L	--	5.0 UJ	5.0 UJ	5.0 U
Nitrate (as N)	µg/L	--	14 U	14 U	14 U
Nitrite (as N)	µg/L	--	14 U	14 U	14 U
Sulfate	µg/L	--	69000	34000	28000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	--	0.0084 U	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	--	0.0071 U	0.0071 U	0.0071 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-218B**	**MW-225**	**MW-226**
	Sample Name:	**GW-38443-100517-SCT-011**	**GW-38443-100517-DA-012**	**GW-38443-100417-SCT-007**
	Sample Date:	**10/05/2017**	**10/05/2017**	**10/04/2017**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.2 J	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 UJ	9.7 J	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 UJ	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.59 J	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-218B**	**MW-225**	**MW-226**
	Sample Name:	**GW-38443-100517-SCT-011**	**GW-38443-100517-DA-012**	**GW-38443-100417-SCT-007**
	Sample Date:	**10/05/2017**	**10/05/2017**	**10/04/2017**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/L	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.38 U	0.38 U	0.39 U
2,4,5-Trichlorophenol	µg/L	0.29 U	0.29 U	0.29 U
2,4,6-Trichlorophenol	µg/L	0.23 U	0.23 U	0.23 U
2,4-Dichlorophenol	µg/L	0.18 U	0.18 U	0.18 U
2,4-Dimethylphenol	µg/L	0.24 U	0.24 U	0.24 U
2,4-Dinitrophenol	µg/L	0.30 U	0.30 U	0.31 U
2,4-Dinitrotoluene	µg/L	0.24 U	0.24 U	0.24 U
2,6-Dinitrotoluene	µg/L	0.76 U	0.76 U	0.78 U
2-Chloronaphthalene	µg/L	0.095 U	0.095 U	0.097 U
2-Chlorophenol	µg/L	0.28 U	0.28 U	0.28 U
2-Methylnaphthalene	µg/L	0.086 U	0.086 U	0.088 U
2-Methylphenol	µg/L	0.16 U	0.16 U	0.17 U
2-Nitroaniline	µg/L	0.20 U	0.20 U	0.20 U
2-Nitrophenol	µg/L	0.27 U	0.27 U	0.27 U
3&4-Methylphenol	µg/L	0.76 U	0.76 U	0.78 U
3,3'-Dichlorobenzidine	µg/L	0.35 U	0.35 U	0.36 U
3-Nitroaniline	µg/L	0.27 U	0.27 U	0.27 U
4,6-Dinitro-2-methylphenol	µg/L	2.3 U	2.3 U	2.3 U
4-Bromophenyl phenyl ether	µg/L	0.21 U	0.21 U	0.21 U
4-Chloro-3-methylphenol	µg/L	0.20 U	0.20 U	0.20 U
4-Chloroaniline	µg/L	0.20 U	0.20 U	0.20 U
4-Chlorophenyl phenyl ether	µg/L	0.29 U	0.29 U	0.29 U
4-Nitroaniline	µg/L	0.21 U	0.21 U	0.21 U
4-Nitrophenol	µg/L	0.28 U	0.28 U	0.28 U
Acenaphthene	µg/L	0.042 U	0.042 U	0.043 U
Acenaphthylene	µg/L	0.046 U	0.046 U	0.047 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-218B**	**MW-225**	**MW-226**
	Sample Name:	**GW-38443-100517-SCT-011**	**GW-38443-100517-DA-012**	**GW-38443-100417-SCT-007**
	Sample Date:	**10/05/2017**	**10/05/2017**	**10/04/2017**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/L	0.32 U	0.32 U	0.33 U
Anthracene	µg/L	0.084 U	0.084 U	0.085 U
Atrazine	µg/L	0.32 U	0.32 U	0.33 U
Benzaldehyde	µg/L	0.37 U	0.37 U	0.38 U
Benzo(a)anthracene	µg/L	0.028 U	0.028 U	0.029 U
Benzo(a)pyrene	µg/L	0.049 U	0.049 U	0.050 U
Benzo(b)fluoranthene	µg/L	0.038 U	0.038 U	0.038 U
Benzo(g,h,i)perylene	µg/L	0.044 U	0.044 U	0.045 U
Benzo(k)fluoranthene	µg/L	0.043 U	0.043 U	0.043 U
Biphenyl (1,1-Biphenyl)	µg/L	0.12 U	0.12 U	0.13 U
bis(2-Chloroethoxy)methane	µg/L	0.30 U	0.30 U	0.31 U
bis(2-Chloroethyl)ether	µg/L	0.095 U	0.095 U	0.097 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.6 U	1.6 U	1.7 U
Butyl benzylphthalate (BBP)	µg/L	0.25 U	0.25 U	0.25 U
Caprolactam	µg/L	0.19 U	0.49 J	0.19 U
Carbazole	µg/L	0.27 U	0.27 U	0.27 U
Chrysene	µg/L	0.048 U	0.048 U	0.049 U
Di-n-butylphthalate (DBP)	µg/L	1.6 U	1.6 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.22 U	0.22 U	0.22 U
Dibenz(a,h)anthracene	µg/L	0.042 U	0.042 U	0.043 U
Dibenzofuran	µg/L	0.019 U	0.019 U	0.019 U
Diethyl phthalate	µg/L	0.57 U	0.57 U	0.58 U
Dimethyl phthalate	µg/L	0.28 U	0.28 U	0.28 U
Fluoranthene	µg/L	0.042 U	0.042 U	0.043 U
Fluorene	µg/L	0.039 U	0.039 U	0.039 U
Hexachlorobenzene	µg/L	0.081 U	0.081 U	0.083 U
Hexachlorobutadiene	µg/L	0.26 U	0.26 U	0.26 U
Hexachlorocyclopentadiene	µg/L	0.23 U	0.23 U	0.23 UJ
Hexachloroethane	µg/L	0.18 U	0.18 U	0.18 U
Indeno(1,2,3-cd)pyrene	µg/L	0.041 U	0.041 U	0.042 U
Isophorone	µg/L	0.26 U	0.26 U	0.26 U
N-Nitrosodi-n-propylamine	µg/L	0.23 U	0.23 U	0.23 U
N-Nitrosodiphenylamine	µg/L	0.30 U	0.30 U	0.30 U
Naphthalene	µg/L	0.060 U	0.060 U	0.061 U
Nitrobenzene	µg/L	0.038 U	0.038 U	0.039 U
Pentachlorophenol	µg/L	0.26 U	0.26 U	0.26 U
Phenanthrene	µg/L	0.059 U	0.059 U	0.060 U
Phenol	µg/L	0.57 U	0.57 U	0.58 U
Pyrene	µg/L	0.040 U	0.040 U	0.041 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-218B**	**MW-225**	**MW-226**
	Sample Name:	**GW-38443-100517-SCT-011**	**GW-38443-100517-DA-012**	**GW-38443-100417-SCT-007**
	Sample Date:	**10/05/2017**	**10/05/2017**	**10/04/2017**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/L	0.24 U	0.24 U	0.24 U
2,4,5-TP (Silvex)	µg/L	0.20 U	0.20 U	0.20 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	1.1 U	1.1 U	1.1 U
Pesticides/PCBs				
4,4'-DDD	µg/L	0.017 U	0.017 U	0.017 U
4,4'-DDE	µg/L	0.011 U	0.012 U	0.011 U
4,4'-DDT	µg/L	0.016 U	0.017 U	0.016 U
Aldrin	µg/L	0.012 U	0.013 U	0.012 U
alpha-BHC	µg/L	0.013 U	0.014 U	0.013 U
alpha-Chlordane	µg/L	0.011 U	0.012 U	0.011 U
Aroclor-1016 (PCB-1016)	µg/L	0.048 U	0.051 U	0.048 U
Aroclor-1221 (PCB-1221)	µg/L	0.087 U	0.092 U	0.086 U
Aroclor-1232 (PCB-1232)	µg/L	0.067 U	0.071 U	0.067 U
Aroclor-1242 (PCB-1242)	µg/L	0.058 U	0.061 U	0.057 U
Aroclor-1248 (PCB-1248)	µg/L	0.048 U	0.051 U	0.048 U
Aroclor-1254 (PCB-1254)	µg/L	0.029 U	0.031 U	0.029 U
Aroclor-1260 (PCB-1260)	µg/L	0.038 U	0.041 U	0.038 U
beta-BHC	µg/L	0.017 U	0.017 U	0.017 U
delta-BHC	µg/L	0.028 U	0.028 U	0.028 U
Dieldrin	µg/L	0.012 U	0.013 U	0.012 U
Endosulfan I	µg/L	0.015 U	0.016 U	0.015 U
Endosulfan II	µg/L	0.014 U	0.015 U	0.014 U
Endosulfan sulfate	µg/L	0.014 U	0.015 U	0.014 U
Endrin	µg/L	0.012 U	0.013 U	0.012 U
Endrin aldehyde	µg/L	0.017 U	0.017 U	0.017 U
Endrin ketone	µg/L	0.015 U	0.016 U	0.015 U
gamma-BHC (lindane)	µg/L	0.012 U	0.013 U	0.012 U
gamma-Chlordane	µg/L	0.012 U	0.013 U	0.012 U
Heptachlor	µg/L	0.013 U	0.014 U	0.013 U
Heptachlor epoxide	µg/L	0.014 U	0.015 U	0.014 U
Methoxychlor	µg/L	0.012 U	0.013 U	0.012 U
Toxaphene	µg/L	0.19 U	0.19 U	0.19 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-218B**	**MW-225**	**MW-226**
	Sample Name:	**GW-38443-100517-SCT-011**	**GW-38443-100517-DA-012**	**GW-38443-100417-SCT-007**
	Sample Date:	**10/05/2017**	**10/05/2017**	**10/04/2017**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	140	34 U	76
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	9.3	1.4 J	0.75 U
Arsenic (dissolved)	µg/L	8.6	1.4 J	0.75 U
Barium	µg/L	250	190	170
Barium (dissolved)	µg/L	250	190	180
Beryllium	µg/L	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	110000	110000
Calcium (dissolved)	µg/L	110000	110000	110000
Chromium	µg/L	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.19 U	0.19 U	0.20 J
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.19 U
Copper	µg/L	1.7 U	1.9 J	1.7 U
Copper (dissolved)	µg/L	1.7 U	2.0	1.7 U
Iron	µg/L	3900	47 U	62 J
Iron (dissolved)	µg/L	3600	47 U	47 U
Lead	µg/L	0.45 U	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	40000	20000	36000
Magnesium (dissolved)	µg/L	38000	20000	36000
Manganese	µg/L	66	11	22
Manganese (dissolved)	µg/L	60	11	15

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-218B**	**MW-225**	**MW-226**
	Sample Name:	**GW-38443-100517-SCT-011**	**GW-38443-100517-DA-012**	**GW-38443-100417-SCT-007**
	Sample Date:	**10/05/2017**	**10/05/2017**	**10/04/2017**
Parameters	**Unit**			
Metals				
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.7 J	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U
Potassium	µg/L	3500	6000	4400
Potassium (dissolved)	µg/L	3300	6100	4900
Selenium	µg/L	0.89 U	5.7	7.6
Selenium (dissolved)	µg/L	0.89 U	5.8	7.6
Silver	µg/L	0.053 U	0.053 U	0.11 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U
Sodium	µg/L	44000	49000	120000
Sodium (dissolved)	µg/L	51000	51000	120000
Thallium	µg/L	0.20 U	0.20 U	0.32 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	15 U	15 U	15 U
Zinc (dissolved)	µg/L	15 U	15 U	15 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-218B**	**MW-225**	**MW-226**
	Sample Name:	**GW-38443-100517-SCT-011**	**GW-38443-100517-DA-012**	**GW-38443-100417-SCT-007**
	Sample Date:	**10/05/2017**	**10/05/2017**	**10/04/2017**
Parameters	**Unit**			
General Chemistry				
Chloride	µg/L	62000	63000	200000
Cyanide (total)	µg/L	5.0 U	5.0 U	5.0 U
Nitrate (as N)	µg/L	14 U	1400	4200
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	68000	36000	58000
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.011 J	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-227	MW-227	Rinse Blank
	Sample Name:	GW-38443-100417-DA-004	GW-38443-100417-DA-005	RB-38443-100517-DA-001
	Sample Date:	10/04/2017	10/04/2017 Duplicate	10/05/2017
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U
Acetone	µg/L	3.0 J	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	2.6	2.6	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-227	MW-227	Rinse Blank
	Sample Name:	GW-38443-100417-DA-004	GW-38443-100417-DA-005	RB-38443-100517-DA-001
	Sample Date:	10/04/2017	10/04/2017 Duplicate	10/05/2017
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/L	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.43 U	0.40 U	0.38 U
2,4,5-Trichlorophenol	µg/L	0.32 U	0.30 U	0.29 U
2,4,6-Trichlorophenol	µg/L	0.26 U	0.24 U	0.23 U
2,4-Dichlorophenol	µg/L	0.20 U	0.19 U	0.18 U
2,4-Dimethylphenol	µg/L	0.27 U	0.25 U	0.24 U
2,4-Dinitrophenol	µg/L	0.34 U	0.32 U	0.30 U
2,4-Dinitrotoluene	µg/L	0.27 U	0.25 U	0.24 U
2,6-Dinitrotoluene	µg/L	0.86 U	0.81 U	0.76 U
2-Chloronaphthalene	µg/L	0.11 U	0.10 U	0.095 U
2-Chlorophenol	µg/L	0.31 U	0.29 U	0.28 U
2-Methylnaphthalene	µg/L	0.097 U	0.091 U	0.086 U
2-Methylphenol	µg/L	0.18 U	0.17 U	0.16 U
2-Nitroaniline	µg/L	0.23 U	0.21 U	0.20 U
2-Nitrophenol	µg/L	0.30 U	0.28 U	0.27 U
3&4-Methylphenol	µg/L	0.86 U	0.81 U	0.76 U
3,3'-Dichlorobenzidine	µg/L	0.40 U	0.37 U	0.35 U
3-Nitroaniline	µg/L	0.30 U	0.28 U	0.27 U
4,6-Dinitro-2-methylphenol	µg/L	2.6 U	2.4 U	2.3 U
4-Bromophenyl phenyl ether	µg/L	0.24 U	0.22 U	0.21 U
4-Chloro-3-methylphenol	µg/L	0.23 U	0.21 U	0.20 U
4-Chloroaniline	µg/L	0.23 U	0.21 U	0.20 U
4-Chlorophenyl phenyl ether	µg/L	0.32 U	0.30 U	0.29 U
4-Nitroaniline	µg/L	0.24 U	0.22 U	0.21 U
4-Nitrophenol	µg/L	0.31 U	0.29 U	0.28 U
Acenaphthene	µg/L	0.048 U	0.045 U	0.042 U
Acenaphthylene	µg/L	0.052 U	0.049 U	0.046 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	MW-227	MW-227	Rinse Blank
	Sample Name:	GW-38443-100417-DA-004	GW-38443-100417-DA-005	RB-38443-100517-DA-001
	Sample Date:	10/04/2017	10/04/2017 Duplicate	10/05/2017
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/L	0.37 U	0.34 U	0.32 U
Anthracene	µg/L	0.095 U	0.089 U	0.084 U
Atrazine	µg/L	0.37 U	0.34 U	0.32 U
Benzaldehyde	µg/L	0.42 U	0.39 U	0.37 U
Benzo(a)anthracene	µg/L	0.032 U	0.030 U	0.028 U
Benzo(a)pyrene	µg/L	0.055 U	0.052 U	0.049 U
Benzo(b)fluoranthene	µg/L	0.042 U	0.040 U	0.038 U
Benzo(g,h,i)perylene	µg/L	0.050 U	0.047 U	0.044 U
Benzo(k)fluoranthene	µg/L	0.048 U	0.045 U	0.043 U
Biphenyl (1,1-Biphenyl)	µg/L	0.14 U	0.13 U	0.12 U
bis(2-Chloroethoxy)methane	µg/L	0.34 U	0.32 U	0.30 U
bis(2-Chloroethyl)ether	µg/L	0.11 U	0.10 U	0.095 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.8 U	1.7 U	1.6 U
Butyl benzylphthalate (BBP)	µg/L	0.28 U	0.26 U	0.25 U
Caprolactam	µg/L	0.22 U	0.20 U	0.19 U
Carbazole	µg/L	0.30 U	0.28 U	0.27 U
Chrysene	µg/L	0.054 U	0.051 U	0.048 U
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.7 U	1.6 U
Di-n-octyl phthalate (DnOP)	µg/L	0.25 U	0.23 U	0.22 U
Dibenz(a,h)anthracene	µg/L	0.048 U	0.045 U	0.042 U
Dibenzofuran	µg/L	0.022 U	0.020 U	0.019 U
Diethyl phthalate	µg/L	0.65 U	0.61 U	0.57 U
Dimethyl phthalate	µg/L	0.31 U	0.29 U	0.28 U
Fluoranthene	µg/L	0.048 U	0.045 U	0.042 U
Fluorene	µg/L	0.044 U	0.041 U	0.039 U
Hexachlorobenzene	µg/L	0.092 U	0.086 U	0.081 U
Hexachlorobutadiene	µg/L	0.29 U	0.27 U	0.26 U
Hexachlorocyclopentadiene	µg/L	0.26 UJ	0.24 UJ	0.23 U
Hexachloroethane	µg/L	0.20 U	0.19 U	0.18 U
Indeno(1,2,3-cd)pyrene	µg/L	0.047 U	0.044 U	0.041 U
Isophorone	µg/L	0.29 U	0.27 U	0.26 U
N-Nitrosodi-n-propylamine	µg/L	0.26 U	0.24 U	0.23 U
N-Nitrosodiphenylamine	µg/L	0.33 U	0.31 U	0.30 U
Naphthalene	µg/L	0.067 U	0.063 U	0.060 U
Nitrobenzene	µg/L	0.043 U	0.040 U	0.038 U
Pentachlorophenol	µg/L	0.29 U	0.27 U	0.26 U
Phenanthrene	µg/L	0.067 U	0.063 U	0.059 U
Phenol	µg/L	0.65 U	0.61 U	0.57 U
Pyrene	µg/L	0.045 U	0.042 U	0.040 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-227**	**MW-227**	**Rinse Blank**
Sample Name:		**GW-38443-100417-DA-004**	**GW-38443-100417-DA-005**	**RB-38443-100517-DA-001**
Sample Date:		**10/04/2017**	**10/04/2017**	**10/05/2017**
			Duplicate	
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/L	0.24 U	0.24 U	0.24 U
2,4,5-TP (Silvex)	µg/L	0.20 U	0.20 U	0.20 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	1.1 U	1.1 U	1.1 U
Pesticides/PCBs				
4,4'-DDD	µg/L	0.019 U	0.020 U	0.019 U
4,4'-DDE	µg/L	0.013 U	0.013 U	0.013 U
4,4'-DDT	µg/L	0.018 U	0.018 U	0.018 U
Aldrin	µg/L	0.014 U	0.014 U	0.014 U
alpha-BHC	µg/L	0.015 U	0.015 U	0.015 U
alpha-Chlordane	µg/L	0.013 U	0.013 U	0.013 U
Aroclor-1016 (PCB-1016)	µg/L	0.050 U	0.051 U	0.050 U
Aroclor-1221 (PCB-1221)	µg/L	0.090 U	0.091 U	0.090 U
Aroclor-1232 (PCB-1232)	µg/L	0.070 U	0.071 U	0.070 U
Aroclor-1242 (PCB-1242)	µg/L	0.060 U	0.061 U	0.060 U
Aroclor-1248 (PCB-1248)	µg/L	0.050 U	0.051 U	0.050 U
Aroclor-1254 (PCB-1254)	µg/L	0.030 U	0.030 U	0.030 U
Aroclor-1260 (PCB-1260)	µg/L	0.040 U	0.040 U	0.040 U
beta-BHC	µg/L	0.019 U	0.020 U	0.019 U
delta-BHC	µg/L	0.031 U	0.032 U	0.031 U
Dieldrin	µg/L	0.014 U	0.014 U	0.014 U
Endosulfan I	µg/L	0.017 U	0.017 U	0.017 U
Endosulfan II	µg/L	0.016 U	0.016 U	0.016 U
Endosulfan sulfate	µg/L	0.016 U	0.016 U	0.016 U
Endrin	µg/L	0.014 U	0.014 U	0.014 U
Endrin aldehyde	µg/L	0.019 U	0.020 U	0.019 U
Endrin ketone	µg/L	0.017 U	0.017 U	0.017 U
gamma-BHC (lindane)	µg/L	0.014 U	0.014 U	0.014 U
gamma-Chlordane	µg/L	0.014 U	0.014 U	0.014 U
Heptachlor	µg/L	0.015 U	0.015 U	0.015 U
Heptachlor epoxide	µg/L	0.016 U	0.016 U	0.016 U
Methoxychlor	µg/L	0.014 U	0.014 U	0.014 U
Toxaphene	µg/L	0.21 U	0.21 U	0.21 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-227**	**MW-227**	**Rinse Blank**
Sample Name:		**GW-38443-100417-DA-004**	**GW-38443-100417-DA-005**	**RB-38443-100517-DA-001**
Sample Date:		**10/04/2017**	**10/04/2017**	**10/05/2017**
			Duplicate	
Parameters	**Unit**			
Metals				
Aluminum	µg/L	34 U	34 U	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.64 J
Arsenic	µg/L	13	16	0.75 U
Arsenic (dissolved)	µg/L	13	16	0.75 U
Barium	µg/L	240	240	2.2 U
Barium (dissolved)	µg/L	240	240	2.2 U
Beryllium	µg/L	0.56 J	1.6	0.37 J
Beryllium (dissolved)	µg/L	0.32 J	0.31 U	0.70 J
Cadmium	µg/L	0.34 J	0.46 J	0.24 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.32 J
Calcium	µg/L	140000	140000	580 U
Calcium (dissolved)	µg/L	140000	140000	580 U
Chromium	µg/L	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.80 J	1.1	0.19 J
Cobalt (dissolved)	µg/L	0.64 J	0.59 J	0.26 J
Copper	µg/L	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U
Iron	µg/L	8600	8100	47 U
Iron (dissolved)	µg/L	8400	8200	47 U
Lead	µg/L	0.58 J	0.84 J	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	53000	55000	200 U
Magnesium (dissolved)	µg/L	53000	55000	200 U
Manganese	µg/L	170	180	2.1 U
Manganese (dissolved)	µg/L	170	170	2.1 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**MW-227**	**MW-227**	**Rinse Blank**
Sample Name:		**GW-38443-100417-DA-004**	**GW-38443-100417-DA-005**	**RB-38443-100517-DA-001**
Sample Date:		**10/04/2017**	**10/04/2017**	**10/05/2017**
			Duplicate	
Parameters	**Unit**			
Metals				
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U
Potassium	µg/L	12000	12000	220 U
Potassium (dissolved)	µg/L	11000	12000	220 U
Selenium	µg/L	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U
Sodium	µg/L	78000	80000	330 U
Sodium (dissolved)	µg/L	78000	80000	370 J
Thallium	µg/L	0.20 U	0.63 J	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	15 U	15 U	15 U
Zinc (dissolved)	µg/L	15 U	15 U	15 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**MW-227**	**MW-227**	**Rinse Blank**
	Sample Name:	**GW-38443-100417-DA-004**	**GW-38443-100417-DA-005**	**RB-38443-100517-DA-001**
	Sample Date:	**10/04/2017**	**10/04/2017**	**10/05/2017**
			Duplicate	
Parameters	**Unit**			
General Chemistry				
Chloride	µg/L	97000	97000	280 U
Cyanide (total)	µg/L	5.0 U	5.0 U	5.0 U
Nitrate (as N)	µg/L	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	70000	70000	350 U
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0096 NJ	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-100317-JC-001**	**TB-38443-100417-JC-002**	**TB-38443-100517-JC-003**
Sample Date:		**10/03/2017**	**10/04/2017**	**10/05/2017**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**Trip Blank**	**Trip Blank**	**Trip Blank**
	Sample Name:	**TB-38443-100317-JC-001**	**TB-38443-100417-JC-002**	**TB-38443-100517-JC-003**
	Sample Date:	**10/03/2017**	**10/04/2017**	**10/05/2017**
Parameters	**Unit**			
Volatile Organic Compounds				
Styrene	µg/L	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--
2-Chloronaphthalene	µg/L	--	--	--
2-Chlorophenol	µg/L	--	--	--
2-Methylnaphthalene	µg/L	--	--	--
2-Methylphenol	µg/L	--	--	--
2-Nitroaniline	µg/L	--	--	--
2-Nitrophenol	µg/L	--	--	--
3&4-Methylphenol	µg/L	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--
3-Nitroaniline	µg/L	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--
4-Chloroaniline	µg/L	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--
4-Nitroaniline	µg/L	--	--	--
4-Nitrophenol	µg/L	--	--	--
Acenaphthene	µg/L	--	--	--
Acenaphthylene	µg/L	--	--	--

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-100317-JC-001**	**TB-38443-100417-JC-002**	**TB-38443-100517-JC-003**
Sample Date:		**10/03/2017**	**10/04/2017**	**10/05/2017**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/L	--	--	--
Anthracene	µg/L	--	--	--
Atrazine	µg/L	--	--	--
Benzaldehyde	µg/L	--	--	--
Benzo(a)anthracene	µg/L	--	--	--
Benzo(a)pyrene	µg/L	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--
Caprolactam	µg/L	--	--	--
Carbazole	µg/L	--	--	--
Chrysene	µg/L	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--
Dibenzofuran	µg/L	--	--	--
Diethyl phthalate	µg/L	--	--	--
Dimethyl phthalate	µg/L	--	--	--
Fluoranthene	µg/L	--	--	--
Fluorene	µg/L	--	--	--
Hexachlorobenzene	µg/L	--	--	--
Hexachlorobutadiene	µg/L	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--
Hexachloroethane	µg/L	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--
Isophorone	µg/L	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--
Naphthalene	µg/L	--	--	--
Nitrobenzene	µg/L	--	--	--
Pentachlorophenol	µg/L	--	--	--
Phenanthrene	µg/L	--	--	--
Phenol	µg/L	--	--	--
Pyrene	µg/L	--	--	--

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-100317-JC-001**	**TB-38443-100417-JC-002**	**TB-38443-100517-JC-003**
Sample Date:		**10/03/2017**	**10/04/2017**	**10/05/2017**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/L	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--
Pesticides/PCBs				
4,4'-DDD	µg/L	--	--	--
4,4'-DDE	µg/L	--	--	--
4,4'-DDT	µg/L	--	--	--
Aldrin	µg/L	--	--	--
alpha-BHC	µg/L	--	--	--
alpha-Chlordane	µg/L	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--
beta-BHC	µg/L	--	--	--
delta-BHC	µg/L	--	--	--
Dieldrin	µg/L	--	--	--
Endosulfan I	µg/L	--	--	--
Endosulfan II	µg/L	--	--	--
Endosulfan sulfate	µg/L	--	--	--
Endrin	µg/L	--	--	--
Endrin aldehyde	µg/L	--	--	--
Endrin ketone	µg/L	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--
gamma-Chlordane	µg/L	--	--	--
Heptachlor	µg/L	--	--	--
Heptachlor epoxide	µg/L	--	--	--
Methoxychlor	µg/L	--	--	--
Toxaphene	µg/L	--	--	--

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-100317-JC-001**	**TB-38443-100417-JC-002**	**TB-38443-100517-JC-003**
Sample Date:		**10/03/2017**	**10/04/2017**	**10/05/2017**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	--	--	--
Aluminum (dissolved)	µg/L	--	--	--
Antimony	µg/L	--	--	--
Antimony (dissolved)	µg/L	--	--	--
Arsenic	µg/L	--	--	--
Arsenic (dissolved)	µg/L	--	--	--
Barium	µg/L	--	--	--
Barium (dissolved)	µg/L	--	--	--
Beryllium	µg/L	--	--	--
Beryllium (dissolved)	µg/L	--	--	--
Cadmium	µg/L	--	--	--
Cadmium (dissolved)	µg/L	--	--	--
Calcium	µg/L	--	--	--
Calcium (dissolved)	µg/L	--	--	--
Chromium	µg/L	--	--	--
Chromium (dissolved)	µg/L	--	--	--
Cobalt	µg/L	--	--	--
Cobalt (dissolved)	µg/L	--	--	--
Copper	µg/L	--	--	--
Copper (dissolved)	µg/L	--	--	--
Iron	µg/L	--	--	--
Iron (dissolved)	µg/L	--	--	--
Lead	µg/L	--	--	--
Lead (dissolved)	µg/L	--	--	--
Magnesium	µg/L	--	--	--
Magnesium (dissolved)	µg/L	--	--	--
Manganese	µg/L	--	--	--
Manganese (dissolved)	µg/L	--	--	--

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-100317-JC-001**	**TB-38443-100417-JC-002**	**TB-38443-100517-JC-003**
Sample Date:		**10/03/2017**	**10/04/2017**	**10/05/2017**
Parameters	**Unit**			
Metals				
Mercury	µg/L	--	--	--
Mercury (dissolved)	µg/L	--	--	--
Nickel	µg/L	--	--	--
Nickel (dissolved)	µg/L	--	--	--
Potassium	µg/L	--	--	--
Potassium (dissolved)	µg/L	--	--	--
Selenium	µg/L	--	--	--
Selenium (dissolved)	µg/L	--	--	--
Silver	µg/L	--	--	--
Silver (dissolved)	µg/L	--	--	--
Sodium	µg/L	--	--	--
Sodium (dissolved)	µg/L	--	--	--
Thallium	µg/L	--	--	--
Thallium (dissolved)	µg/L	--	--	--
Vanadium	µg/L	--	--	--
Vanadium (dissolved)	µg/L	--	--	--
Zinc	µg/L	--	--	--
Zinc (dissolved)	µg/L	--	--	--

Table 2

Analytical Results Summary
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

	Location ID:	**Trip Blank**	**Trip Blank**	**Trip Blank**
	Sample Name:	**TB-38443-100317-JC-001**	**TB-38443-100417-JC-002**	**TB-38443-100517-JC-003**
	Sample Date:	**10/03/2017**	**10/04/2017**	**10/05/2017**
Parameters	**Unit**			
General Chemistry				
Chloride	µg/L	--	--	--
Cyanide (total)	µg/L	--	--	--
Nitrate (as N)	µg/L	--	--	--
Nitrite (as N)	µg/L	--	--	--
Sulfate	µg/L	--	--	--
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	--	--	--
1,2-Dibromoethane (Ethylene dibromide)	µg/L	--	--	--

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 3

Analytical Methods
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Fumigants	SW-846 8011	Water	-	14
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082	Water	7	40
Chlorinated Herbicides	SW-846 8151A	Water	7	40
Metals	SW-846 6020	Water	-	180
Mercury	SW-846 7470A	Water	-	28
Anions	EPA 300.0	Water	-	28
Cyanide	SW-846 9012B	Water	-	14

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
EPA - "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 and Subsequent Revisions

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromomethane	10/09/2017	40.4	GW-38443-100317-SCT-001	0.42 UJ	µg/L
		10/19/2017	33.9	GW-38443-100517-DA-010	0.42 UJ	µg/L
				GW-38443-100517-SCT-011	0.42 UJ	µg/L
				GW-38443-100517-DA-012	0.42 UJ	µg/L
VOCs	Chloroethane	10/09/2017	53.1	GW-38443-100317-SCT-001	0.41 UJ	µg/L
		10/12/2017	49.6	GW-38443-100317-DA-002	0.41 UJ	µg/L
				GW-38443-100317-DA-003	0.82 UJ	µg/L
VOCs	Carbon tetrachloride	10/12/2017	26.6	GW-38443-100317-DA-002	0.35 UJ	µg/L
				GW-38443-100317-DA-003	0.70 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	10/19/2017	36.9	GW-38443-100517-DA-010	0.27 UJ	µg/L
				GW-38443-100517-SCT-011	0.27 UJ	µg/L
				GW-38443-100517-DA-012	0.27 UJ	µg/L
VOCs	Acetone	10/19/2017	41.7	GW-38443-100517-DA-010	1.8 UJ	µg/L
				GW-38443-100517-SCT-011	1.8 UJ	µg/L
				GW-38443-100517-DA-012	9.7 J	µg/L
SVOCs	Hexachlorocyclopentadiene	10/10/2017	35.1	GW-38443-100417-DA-004	0.26 UJ	µg/L
				GW-38443-100417-DA-005	0.24 UJ	µg/L
				GW-38443-100417-SCT-006	0.23 UJ	µg/L
				GW-38443-100417-SCT-007	0.23 UJ	µg/L
				GW-38443-100417-DA-008	0.25 UJ	µg/L
				GW-38443-100417-SCT-009	0.24 UJ	µg/L

Notes:

-- - Not applicable
%D - Percent difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Instrument Blanks
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Analyte	Blank ID	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
Metals	Silver	CCB	10/09/2017	0.053 J	GW-38443-100417-SCT-006	0.065 J	0.065 U	µg/L
					GW-38443-100417-SCT-007	0.11 J	0.11 U	µg/L

Notes:

CCB - Continuing Calibration Blank
U - Not detected at the associated reporting limit
J - Estimated concentration

Table 6

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	Chloroform	10/19/2017	121	80-120	GW-38443-100517-DA-012	0.59 J	µg/L

Notes:

LCS - Laboratory Control Sample
J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Results Due to Outlying MS/MSD Results
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
VOCs	GW-38443-100517-DA-010	2-Butanone	46	70	42	34-153	23	1.2 J	µg/L
	GW-38443-100517-DA-010	cis-1,3-Dichloropropene	64	64	0	68-120	13	0.26 UJ	µg/L
General Chemistry	GW-38443-100317-DA-002	Cyanide (total)	69	92	29	90 - 110	15	5.0 UJ	µg/L
	GW-38443-100317-DA-003					90 - 110	15	5.0 UJ	µg/L
	GW-38443-100317-SCT-001					90 - 110	15	5.0 UJ	µg/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 8

Qualified Sample Data Due to Analyte Concentrations in the Equipment Blank
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Equipment Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	RB-38443-100517-DA-001	10/05/2017	Beryllium	0.37 J	GW-38443-100517-DA-010	0.48 J	0.48 U	µg/L
			Beryllium (dissolved)	0.70 J	GW-38443-100517-DA-010	0.31 J	0.31 U	µg/L
			Cobalt	0.19 J	GW-38443-100517-DA-010	0.26 J	0.26 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Table 9

Qualified Sample Data Due to Differences in Dual Column Results
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Analyte	RPD (percent)	RPD Criteria (percent)	Associated Sample ID	Qualified Result	Units
Fumigant	1,2-Dibromo-3-chloropropane (DBCP)	93	< 40	GW-38443-100417-DA-004	0.0096 NJ	µg/L

Notes:

RPD - Relative Percent Difference
NJ - Tentatively Identified; Estimated concentration

Table 10

Qualified Sample Data Due to Discrepancy Between Total and Dissolved Results
Monitoring Well Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2017

Parameter	Sample ID	Analyte	%D	Criteria (%D)	Qualified Total Result	Qualified Dissolved Result	Units
Metals	GW-38443-100417-DA-008	Potassium	96	20	2500 J	4900 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration

Memorandum

February 20, 2018

To:	Julian Hayward	Ref. No.:	038443-370
From:	Angela Bown/cs/35-NF	Tel:	513-942-4750
CC:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

1. Introduction

This document details a validation of analytical results for water samples collected in support of the VAS-15b and VAS-35 Groundwater Sampling Program at the Moraine, Ohio site during December 2017 through January 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Fumigants

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the coefficient of determination (R^2) is 0.990 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide	85 - 115%
Instrumental Wet Chemistry	Anions	90 - 110%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period with the exception of one pesticide result presented with qualifiers in Table 4.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 5 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 5 and Table 6).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides, PCBs, and SVOCs were not assessed. Most remaining surrogate recoveries were within the laboratory criteria. Where surrogate recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. Table 7 presents the sample results that were qualified due to outlying surrogate recoveries.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. Most LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Table 8 presents the sample results that were qualified as estimated due to observed high bias in the associated LCS.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of eight trip blank samples, one field blank sample, and two field duplicate sample sets.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, eight trip blanks were submitted to the laboratory for VOC analysis. Acetone was detected in one trip blank sample.

The associated sample results were non-detect and were not impacted. All remaining results were non-detect for the compounds of interest.

15.2 Field Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, one field blank was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest.

15.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 9 presents the sample results that were qualified due to variability in the field duplicate results.

16. Total versus Dissolved Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20% D). The dissolved antimony and cadmium results for sample GW-38443-010418-KVM-022 were greater than the total results and were in exceedance of the method variability. The associated results were qualified as estimated in Table 10.

17. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

18. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide and PCB analyses were performed using dual column analyses. All the results showed good correlation between the two columns (<40 RPD).

19. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

					Analysis/Parameters									
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
GW-38443-121317-KVM-001	VAS-15b	Water	12/13/2017	10:35:00	X				X	X	X		X	
GW-38443-121317-KVM-002	VAS-15b	Water	12/13/2017	14:40:00	X				X	X	X		X	
GW-38443-121417-KVM-003	VAS-15b	Water	12/14/2017	09:40:00	X				X	X	X		X	
GW-38443-121417-KVM-004	VAS-15b	Water	12/14/2017	15:20:00	X				X	X	X		X	
GW-38443-121517-KVM-005	VAS-15b	Water	12/15/2017	11:50:00	X				X	X	X		X	
GW-38443-121817-KVM-006	VAS-35	Water	12/18/2017	10:10:00	X	X	X	X	X	X	X	X	X	
GW-38443-121817-KVM-007	VAS-35	Water	12/18/2017	11:05:00	X				X	X	X		X	MS/MSD
GW-38443-121817-KVM-008	VAS-35	Water	12/18/2017	13:05:00	X				X	X	X		X	
GW-38443-121817-KVM-009	VAS-35	Water	12/18/2017	15:20:00	X				X	X	X		X	
GW-38443-121917-KVM-010	VAS-35	Water	12/19/2017	08:45:00	X				X	X	X		X	MS/MSD
GW-38443-121917-KVM-011	VAS-35	Water	12/19/2017	09:00:00	X				X	X	X		X	FD(GW-38443-121917-KVM-010)
GW-38443-121917-KVM-012	VAS-35	Water	12/19/2017	13:05:00	X	X	X	X	X	X	X	X	X	MS/MSD
GW-38443-121917-KVM-013	VAS-35	Water	12/19/2017	15:45:00	X				X	X	X		X	
GW-38443-122017-KVM-014	VAS-35	Water	12/20/2017	10:20:00	X				X	X	X		X	
GW-38443-122017-KVM-015	VAS-35	Water	12/20/2017	12:40:00	X				X	X	X		X	MS/MSD
GW-38443-122017-KVM-016	VAS-35	Water	12/20/2017	15:20:00	X				X	X	X		X	
GW-38443-122117-KVM-017	VAS-35	Water	12/21/2017	09:00:00	X				X	X	X		X	MS/MSD
GW-38443-122117-KVM-018	VAS-35	Water	12/21/2017	11:55:00	X				X	X	X		X	
GW-38443-010318-KVM-019	VAS-35	Water	01/03/2018	10:30:00	X				X	X	X		X	MS/MSD
GW-38443-010318-KVM-FB1	-	Water	01/03/2018	11:00:00	X				X	X	X		X	Field Blank
GW-38443-010318-KVM-020	VAS-35	Water	01/03/2018	14:02:00	X				X	X	X		X	
GW-38443-010318-KVM-021	VAS-35	Water	01/03/2018	14:45:00	X				X	X	X		X	FD(GW-38443-010318-KVM-020)

Table 1

Sample Collection and Analysis Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

					Analysis/Parameters									
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
GW-38443-010418-KVM-022	VAS-35	Water	01/04/2018	09:00:00	X				X	X	X		X	MS/MSD
TRIP BLANK-121317-KVM-001	-	Water	12/13/2017	00:00:00	X									Trip Blank
TRIP BLANK-121417-002	-	Water	12/14/2017	08:00:00	X				X					Trip Blank
TRIP BLANK-121917-KVM-003	-	Water	12/19/2017	08:00:00	X				X					Trip Blank
TRIP BLANK-121917-KVM-004	-	Water	12/19/2017	16:00:00	X				X					Trip Blank
TRIP BLANK-122017-KVM-005	-	Water	12/20/2017	08:00:00	X				X					Trip Blank
TRIP BLANK-122117-KVM-005	-	Water	12/21/2017	08:00:00	X				X					Trip Blank
TRIP BLANK	-	Water	01/03/2018	08:00:00	X				X					Trip Blank
TRIP BLANK-010418-KVM-001	-	Water	01/04/2018	08:00:00	X				X					Trip Blank

Notes:

- - Not applicable
FD - Field Duplicate sample of sample in parentheses
MS/MSD - Matrix Spike/Matrix Spike Duplicate
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-15B	VAS-15B	VAS-15B
	Sample Name:	GW-38443-121317-KVM-001	GW-38443-121317-KVM-002	GW-38443-121417-KVM-003	GW-38443-121417-KVM-004
	Sample Date:	12/13/2017	12/13/2017	12/14/2017	12/14/2017
	Depth:	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.38 U	3.3 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.53 U	4.6 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.57 U	4.9 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	1.0 J	3.6 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.45 U	3.9 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.45 U	3.9 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.43 U	3.7 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.50 U	4.3 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.50 U	4.3 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.53 U	4.6 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.38 U	3.3 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.7 U	15 U	1.0 U	1.0 U
2-Hexanone	µg/L	2.1 U	18 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1.2 U	10 U	0.71 U	0.71 U
Acetone	µg/L	2.9 U	25 U	1.8 U	1.8 U
Benzene	µg/L	0.47 U	4.0 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.50 U	4.3 U	0.30 U	0.30 U
Bromoform	µg/L	0.72 U	6.1 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.70 UJ	6.0 UJ	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	0.57 U	4.9 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.58 U	5.0 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.53 U	4.6 U	0.32 U	0.32 U
Chloroethane	µg/L	0.68 U	5.9 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.52 U	4.4 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.72 U	6.1 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	47	120	16	6.8
cis-1,3-Dichloropropene	µg/L	0.43 U	3.7 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.73 U	6.3 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.42 U	3.6 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.84 U	7.1 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.43 U	3.7 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.35 U	3.0 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.40 U	3.4 U	0.24 U	0.24 U
Methyl acetate	µg/L	2.4 U	20 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.75 U	6.4 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.45 U	3.9 U	0.27 U	0.27 U
Methylene chloride	µg/L	2.0	13 U	0.53 U	0.53 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**
	Sample Name:	**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**
	Sample Date:	**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**
	Depth:	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
o-Xylene	µg/L	0.47 U	4.0 U	0.28 U	0.28 U
Styrene	µg/L	0.38 U	3.3 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.50 U	4.3 U	0.30 U	0.30 U
Toluene	µg/L	0.38 U	3.3 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.48 U	4.1 U	0.29 J	0.29 U
trans-1,3-Dichloropropene	µg/L	0.52 U	4.4 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.55 U	4.7 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.84 U	7.1 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.68 U	5.9 U	0.41 U	0.41 U
Vinyl chloride	µg/L	31	70	27	27
Xylenes (total)	µg/L	0.40 U	3.4 U	0.24 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**
Sample Name:		**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**
Sample Date:		**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-15B	VAS-15B	VAS-15B
	Sample Name:	GW-38443-121317-KVM-001	GW-38443-121317-KVM-002	GW-38443-121417-KVM-003	GW-38443-121417-KVM-004
	Sample Date:	12/13/2017	12/13/2017	12/14/2017	12/14/2017
	Depth:	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**
Sample Name:		**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**
Sample Date:		**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	2100	89	34 U	43 J
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	1.5 J	0.68 J	1.2 J	0.57 U
Antimony (dissolved)	µg/L	0.73 J	0.63 J	0.57 U	0.57 U
Arsenic	µg/L	5.1	2.0 J	2.9 J	1.3 J
Arsenic (dissolved)	µg/L	3.4 J	2.0 J	2.3 J	1.1 J
Barium	µg/L	120	84	89	97
Barium (dissolved)	µg/L	98	82	89	98
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.27 J	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	100000	96000	98000
Calcium (dissolved)	µg/L	110000	100000	95000	96000
Chromium	µg/L	6.2	1.3 J	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	1.5	0.30 J	0.31 J	0.19 U
Cobalt (dissolved)	µg/L	0.22 J	0.21 J	0.19 U	0.19 U
Copper	µg/L	5.2	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	10000	3700	2400	4000
Iron (dissolved)	µg/L	2700	2800	2300	3700
Lead	µg/L	2.8	0.45 U	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	40000	34000	32000	33000
Magnesium (dissolved)	µg/L	37000	34000	31000	32000
Manganese	µg/L	320	260	290	300
Manganese (dissolved)	µg/L	230	240	280	300
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	5.5	2.2	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 J	1.5 U	1.5 U	1.5 U
Potassium	µg/L	6100	7200	8000	8400
Potassium (dissolved)	µg/L	5700	7200	8100	8400
Selenium	µg/L	1.3 J	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.99 J	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**
	Sample Name:	**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**
	Sample Date:	**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**
	Depth:	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Parameters	**Unit**				
Metals					
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	37000	42000	42000	34000
Sodium (dissolved)	µg/L	38000	42000	41000	33000
Thallium	µg/L	0.20 J	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	4.1 J	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	320	510	360	420
Zinc (dissolved)	µg/L	240	500	360	410
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	73000	71000	67000	66000
Nitrate (as N)	µg/L	14 U	14 U	14 U	16 J
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	70000	81000	85000	82000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0084 U	0.0084 U	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U	0.0071 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not dtected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121517-KVM-005	GW-38443-121817-KVM-006	GW-38443-121817-KVM-007	GW-38443-121817-KVM-008
	Sample Date:	12/15/2017	12/18/2017	12/18/2017	12/18/2017
	Depth:	140-150 ft BGS	20-25 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 UJ	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 UJ	0.42 U	0.42 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 UJ	0.41 UJ	0.41 UJ
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.78 J	1.9 J	1.9	0.59 J
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	1.1	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121517-KVM-005	GW-38443-121817-KVM-006	GW-38443-121817-KVM-007	GW-38443-121817-KVM-008
	Sample Date:	12/15/2017	12/18/2017	12/18/2017	12/18/2017
	Depth:	140-150 ft BGS	20-25 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds					
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.24 J	0.28 J
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 UJ	0.41 U
Vinyl chloride	µg/L	15	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	0.40 U	--	--
2,4,5-Trichlorophenol	µg/L	--	0.30 U	--	--
2,4,6-Trichlorophenol	µg/L	--	0.24 U	--	--
2,4-Dichlorophenol	µg/L	--	0.19 U	--	--
2,4-Dimethylphenol	µg/L	--	0.25 U	--	--
2,4-Dinitrophenol	µg/L	--	0.32 U	--	--
2,4-Dinitrotoluene	µg/L	--	0.25 U	--	--
2,6-Dinitrotoluene	µg/L	--	0.79 U	--	--
2-Chloronaphthalene	µg/L	--	0.099 U	--	--
2-Chlorophenol	µg/L	--	0.29 U	--	--
2-Methylnaphthalene	µg/L	--	0.090 U	--	--
2-Methylphenol	µg/L	--	0.17 U	--	--
2-Nitroaniline	µg/L	--	0.21 U	--	--
2-Nitrophenol	µg/L	--	0.28 U	--	--
3&4-Methylphenol	µg/L	--	0.79 U	--	--
3,3'-Dichlorobenzidine	µg/L	--	0.37 U	--	--
3-Nitroaniline	µg/L	--	0.28 U	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	2.4 U	--	--
4-Bromophenyl phenyl ether	µg/L	--	0.22 U	--	--
4-Chloro-3-methylphenol	µg/L	--	0.21 U	--	--
4-Chloroaniline	µg/L	--	0.21 U	--	--
4-Chlorophenyl phenyl ether	µg/L	--	0.30 U	--	--
4-Nitroaniline	µg/L	--	0.22 U	--	--
4-Nitrophenol	µg/L	--	0.29 U	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121517-KVM-005	GW-38443-121817-KVM-006	GW-38443-121817-KVM-007	GW-38443-121817-KVM-008
	Sample Date:	12/15/2017	12/18/2017	12/18/2017	12/18/2017
	Depth:	140-150 ft BGS	20-25 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/L	--	0.044 U	--	--
Acenaphthylene	µg/L	--	0.048 U	--	--
Acetophenone	µg/L	--	0.34 U	--	--
Anthracene	µg/L	--	0.087 U	--	--
Atrazine	µg/L	--	0.34 U	--	--
Benzaldehyde	µg/L	--	0.39 U	--	--
Benzo(a)anthracene	µg/L	--	0.14 J	--	--
Benzo(a)pyrene	µg/L	--	0.051 U	--	--
Benzo(b)fluoranthene	µg/L	--	0.039 U	--	--
Benzo(g,h,i)perylene	µg/L	--	0.046 U	--	--
Benzo(k)fluoranthene	µg/L	--	0.044 U	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	0.13 U	--	--
bis(2-Chloroethoxy)methane	µg/L	--	0.32 U	--	--
bis(2-Chloroethyl)ether	µg/L	--	0.099 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	1.7 U	--	--
Butyl benzylphthalate (BBP)	µg/L	--	0.26 U	--	--
Caprolactam	µg/L	--	0.20 U	--	--
Carbazole	µg/L	--	0.28 U	--	--
Chrysene	µg/L	--	0.14 J	--	--
Di-n-butylphthalate (DBP)	µg/L	--	1.7 U	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	0.23 U	--	--
Dibenz(a,h)anthracene	µg/L	--	0.044 U	--	--
Dibenzofuran	µg/L	--	0.020 U	--	--
Diethyl phthalate	µg/L	--	0.59 U	--	--
Dimethyl phthalate	µg/L	--	0.29 U	--	--
Fluoranthene	µg/L	--	0.22	--	--
Fluorene	µg/L	--	0.040 U	--	--
Hexachlorobenzene	µg/L	--	0.084 U	--	--
Hexachlorobutadiene	µg/L	--	0.27 U	--	--
Hexachlorocyclopentadiene	µg/L	--	0.24 U	--	--
Hexachloroethane	µg/L	--	0.19 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	0.043 U	--	--
Isophorone	µg/L	--	0.27 U	--	--
N-Nitrosodi-n-propylamine	µg/L	--	0.24 U	--	--
N-Nitrosodiphenylamine	µg/L	--	0.31 U	--	--
Naphthalene	µg/L	--	0.062 U	--	--
Nitrobenzene	µg/L	--	0.040 U	--	--

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121517-KVM-005	GW-38443-121817-KVM-006	GW-38443-121817-KVM-007	GW-38443-121817-KVM-008
	Sample Date:	12/15/2017	12/18/2017	12/18/2017	12/18/2017
	Depth:	140-150 ft BGS	20-25 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/L	--	0.27 U	--	--
Phenanthrene	µg/L	--	0.27	--	--
Phenol	µg/L	--	0.59 U	--	--
Pyrene	µg/L	--	0.24	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	--	0.017 U	--	--
4,4'-DDE	µg/L	--	0.012 U	--	--
4,4'-DDT	µg/L	--	0.016 U	--	--
Aldrin	µg/L	--	0.013 U	--	--
alpha-BHC	µg/L	--	0.013 U	--	--
alpha-Chlordane	µg/L	--	0.012 U	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	0.054 U	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	0.098 U	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	0.076 U	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	0.065 U	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	0.054 U	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	0.033 U	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	0.043 U	--	--
beta-BHC	µg/L	--	0.017 U	--	--
delta-BHC	µg/L	--	0.028 U	--	--
Dieldrin	µg/L	--	0.013 U	--	--
Endosulfan I	µg/L	--	0.015 U	--	--
Endosulfan II	µg/L	--	0.014 U	--	--
Endosulfan sulfate	µg/L	--	0.014 U	--	--
Endrin	µg/L	--	0.013 U	--	--
Endrin aldehyde	µg/L	--	0.017 U	--	--
Endrin ketone	µg/L	--	0.015 U	--	--
gamma-BHC (lindane)	µg/L	--	0.013 U	--	--
gamma-Chlordane	µg/L	--	0.013 U	--	--
Heptachlor	µg/L	--	0.013 U	--	--
Heptachlor epoxide	µg/L	--	0.014 U	--	--
Methoxychlor	µg/L	--	0.013 U	--	--
Toxaphene	µg/L	--	0.19 U	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121517-KVM-005	GW-38443-121817-KVM-006	GW-38443-121817-KVM-007	GW-38443-121817-KVM-008
	Sample Date:	12/15/2017	12/18/2017	12/18/2017	12/18/2017
	Depth:	140-150 ft BGS	20-25 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Metals					
Aluminum	µg/L	1000	2200	2300	5000
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	1300
Antimony	µg/L	0.57 U	1.4 U	0.82 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	1.0 U	0.57 U
Arsenic	µg/L	1.4 J	29	320	11
Arsenic (dissolved)	µg/L	0.77 J	23	240	7.4
Barium	µg/L	120	2100	12000	640
Barium (dissolved)	µg/L	110	1300	8300	610
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.82 J	0.48 J	0.31 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.22 J	0.21 U
Calcium	µg/L	100000	150000	130000	210000
Calcium (dissolved)	µg/L	96000	140000	92000	130000
Chromium	µg/L	3.2	5.1	7.7	15
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	2.4
Cobalt	µg/L	1.1	6.5	6.1	3.6
Cobalt (dissolved)	µg/L	0.24 J	3.9	2.5	1.0
Copper	µg/L	3.0	17	13	14
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	3.4
Iron	µg/L	5600	11000	14000	16000
Iron (dissolved)	µg/L	3600	6300	3800	7000
Lead	µg/L	1.9	25	17	14
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	2.4
Magnesium	µg/L	39000	53000	55000	70000
Magnesium (dissolved)	µg/L	37000	47000	41000	43000
Manganese	µg/L	310	2300	1200	360
Manganese (dissolved)	µg/L	260	1400	890	140
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	3.3	13	9.1	8.8
Nickel (dissolved)	µg/L	1.5 U	5.6	2.3	2.8
Potassium	µg/L	9800	10000	8500	8400
Potassium (dissolved)	µg/L	9800	9600	7600	7500
Selenium	µg/L	0.89 U	0.89 U	0.89 U	1.7 J
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-15B	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121517-KVM-005	GW-38443-121817-KVM-006	GW-38443-121817-KVM-007	GW-38443-121817-KVM-008
	Sample Date:	12/15/2017	12/18/2017	12/18/2017	12/18/2017
	Depth:	140-150 ft BGS	20-25 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Metals					
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	33000	120000	73000	51000
Sodium (dissolved)	µg/L	34000	120000	74000	50000
Thallium	µg/L	0.20 U	0.47 J	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.3 J	5.2	6.2	10
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	2.7 J
Zinc	µg/L	440	640	410	220
Zinc (dissolved)	µg/L	420	510	240	150
General Chemistry					
Cyanide (total)	mg/L	--	0.0026 U	--	--
Chloride	µg/L	65000	220000	150000	91000
Nitrate (as N)	µg/L	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	78000	16000	8800	45000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0084 U	0.0084 U	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U	0.0071 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not dtected; associated reporting limit is estimated
-- - Not applicable

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-35	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121817-KVM-009	GW-38443-121917-KVM-010	GW-38443-121917-KVM-011	GW-38443-121917-KVM-012
	Sample Date:	12/18/2017	12/19/2017	12/19/2017	12/19/2017
	Depth:	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-60 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.92 U	0.92 U	120 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	1.3 U	1.3 U	160 U
1,1,2-Trichloroethane	µg/L	0.34 U	1.4 U	1.4 U	170 U
1,1-Dichloroethane	µg/L	0.25 U	1.0 U	1.0 U	130 U
1,1-Dichloroethene	µg/L	0.27 U	1.1 U	1.1 U	140 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	1.1 U	1.1 U	140 U
1,2-Dichlorobenzene	µg/L	0.26 U	1.0 U	1.0 U	130 U
1,2-Dichloroethane	µg/L	0.30 U	1.2 U	1.2 U	150 U
1,2-Dichloropropane	µg/L	0.30 U	1.2 U	1.2 U	150 U
1,3-Dichlorobenzene	µg/L	0.32 U	1.3 U	1.3 U	160 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.92 U	0.92 U	120 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	5.4 J	4.1 U	510 U
2-Hexanone	µg/L	1.2 U	4.9 U	4.9 U	620 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	2.8 U	2.8 U	360 U
Acetone	µg/L	1.8 U	7.0 U	7.0 U	880 U
Benzene	µg/L	0.28 U	1.1 U	1.1 U	140 U
Bromodichloromethane	µg/L	0.30 U	1.2 U	1.2 U	150 U
Bromoform	µg/L	0.43 U	1.7 UJ	1.7 UJ	220 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 U	1.7 U	1.7 U	210 U
Carbon disulfide	µg/L	0.55 J	1.4 U	1.4 U	170 U
Carbon tetrachloride	µg/L	0.35 U	1.4 U	1.4 U	180 U
Chlorobenzene	µg/L	0.32 U	1.3 U	1.3 U	160 U
Chloroethane	µg/L	0.41 UJ	1.6 U	1.6 U	210 U
Chloroform (Trichloromethane)	µg/L	0.31 U	1.2 U	1.2 U	160 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	1.7 U	1.7 U	220 U
cis-1,2-Dichloroethene	µg/L	0.46 J	1.2 U	1.2 U	150 U
cis-1,3-Dichloropropene	µg/L	0.26 U	1.0 U	1.0 U	130 U
Cyclohexane	µg/L	0.83 J	49	46	890
Dibromochloromethane	µg/L	0.25 U	1.0 U	1.0 U	130 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	2.0 U	2.0 U	250 U
Ethylbenzene	µg/L	0.26 U	1.0 U	1.0 U	1600
Isopropyl benzene	µg/L	0.21 U	5.9	5.8	110 U
m&p-Xylenes	µg/L	0.24 U	5.0 J	4.3 J	4800
Methyl acetate	µg/L	1.4 U	5.7 U	5.7 U	720 U
Methyl cyclohexane	µg/L	0.45 U	13	12	230 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	1.1 U	1.1 U	140 U
Methylene chloride	µg/L	0.53 U	2.1 U	2.1 U	270 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-35	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121817-KVM-009	GW-38443-121917-KVM-010	GW-38443-121917-KVM-011	GW-38443-121917-KVM-012
	Sample Date:	12/18/2017	12/19/2017	12/19/2017	12/19/2017
	Depth:	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-60 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds					
o-Xylene	µg/L	0.28 U	1.1 U	1.1 U	140 U
Styrene	µg/L	0.23 U	0.92 U	0.92 U	120 U
Tetrachloroethene	µg/L	0.30 U	1.2 U	1.2 U	150 U
Toluene	µg/L	0.23 U	0.92 U	0.92 U	120 U
trans-1,2-Dichloroethene	µg/L	0.29 U	1.2 U	1.2 U	150 U
trans-1,3-Dichloropropene	µg/L	0.31 U	1.2 U	1.2 U	160 U
Trichloroethene	µg/L	0.33 U	1.3 U	1.3 U	170 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	2.0 U	2.0 U	250 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	1.6 U	1.6 U	210 U
Vinyl chloride	µg/L	0.45 U	1.8 U	1.8 U	230 U
Xylenes (total)	µg/L	0.24 U	5.0 J	4.3 J	4800
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	0.38 U
2,4,5-Trichlorophenol	µg/L	--	--	--	0.29 U
2,4,6-Trichlorophenol	µg/L	--	--	--	0.23 U
2,4-Dichlorophenol	µg/L	--	--	--	0.18 U
2,4-Dimethylphenol	µg/L	--	--	--	0.93 J
2,4-Dinitrophenol	µg/L	--	--	--	0.31 U
2,4-Dinitrotoluene	µg/L	--	--	--	0.24 U
2,6-Dinitrotoluene	µg/L	--	--	--	0.77 U
2-Chloronaphthalene	µg/L	--	--	--	0.096 U
2-Chlorophenol	µg/L	--	--	--	0.28 U
2-Methylnaphthalene	µg/L	--	--	--	110
2-Methylphenol	µg/L	--	--	--	0.16 U
2-Nitroaniline	µg/L	--	--	--	0.20 U
2-Nitrophenol	µg/L	--	--	--	0.27 U
3&4-Methylphenol	µg/L	--	--	--	0.77 U
3,3'-Dichlorobenzidine	µg/L	--	--	--	0.36 U
3-Nitroaniline	µg/L	--	--	--	0.27 U
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	2.3 U
4-Bromophenyl phenyl ether	µg/L	--	--	--	0.21 U
4-Chloro-3-methylphenol	µg/L	--	--	--	0.20 U
4-Chloroaniline	µg/L	--	--	--	0.20 U
4-Chlorophenyl phenyl ether	µg/L	--	--	--	0.29 U
4-Nitroaniline	µg/L	--	--	--	0.21 U
4-Nitrophenol	µg/L	--	--	--	0.28 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-35	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121817-KVM-009	GW-38443-121917-KVM-010	GW-38443-121917-KVM-011	GW-38443-121917-KVM-012
	Sample Date:	12/18/2017	12/19/2017	12/19/2017	12/19/2017
	Depth:	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-60 ft BGS
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/L	--	--	--	0.33
Acenaphthylene	µg/L	--	--	--	0.13 J
Acetophenone	µg/L	--	--	--	0.33 U
Anthracene	µg/L	--	--	--	0.085 U
Atrazine	µg/L	--	--	--	0.33 U
Benzaldehyde	µg/L	--	--	--	0.37 U
Benzo(a)anthracene	µg/L	--	--	--	0.028 U
Benzo(a)pyrene	µg/L	--	--	--	0.049 U
Benzo(b)fluoranthene	µg/L	--	--	--	0.038 U
Benzo(g,h,i)perylene	µg/L	--	--	--	0.045 U
Benzo(k)fluoranthene	µg/L	--	--	--	0.043 U
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	0.46 J
bis(2-Chloroethoxy)methane	µg/L	--	--	--	0.31 U
bis(2-Chloroethyl)ether	µg/L	--	--	--	0.096 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	1.6 U
Butyl benzylphthalate (BBP)	µg/L	--	--	--	0.25 U
Caprolactam	µg/L	--	--	--	0.19 U
Carbazole	µg/L	--	--	--	0.27 U
Chrysene	µg/L	--	--	--	0.048 U
Di-n-butylphthalate (DBP)	µg/L	--	--	--	1.6 U
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	0.22 U
Dibenz(a,h)anthracene	µg/L	--	--	--	0.043 U
Dibenzofuran	µg/L	--	--	--	0.019 U
Diethyl phthalate	µg/L	--	--	--	0.67 U
Dimethyl phthalate	µg/L	--	--	--	0.28 U
Fluoranthene	µg/L	--	--	--	0.043 U
Fluorene	µg/L	--	--	--	0.20
Hexachlorobenzene	µg/L	--	--	--	0.082 U
Hexachlorobutadiene	µg/L	--	--	--	0.26 U
Hexachlorocyclopentadiene	µg/L	--	--	--	0.23 U
Hexachloroethane	µg/L	--	--	--	0.18 U
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	0.042 U
Isophorone	µg/L	--	--	--	0.26 U
N-Nitrosodi-n-propylamine	µg/L	--	--	--	0.23 U
N-Nitrosodiphenylamine	µg/L	--	--	--	0.30 U
Naphthalene	µg/L	--	--	--	250
Nitrobenzene	µg/L	--	--	--	0.038 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		VAS-35	VAS-35	VAS-35	VAS-35
Sample Name:		GW-38443-121817-KVM-009	GW-38443-121917-KVM-010	GW-38443-121917-KVM-011	GW-38443-121917-KVM-012
Sample Date:		12/18/2017	12/19/2017	12/19/2017	12/19/2017
Depth:		40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-60 ft BGS
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/L	--	--	--	0.26 U
Phenanthrene	µg/L	--	--	--	0.15 J
Phenol	µg/L	--	--	--	0.58 U
Pyrene	µg/L	--	--	--	0.040 U
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	0.017 U
4,4'-DDE	µg/L	--	--	--	0.012 U
4,4'-DDT	µg/L	--	--	--	0.016 U
Aldrin	µg/L	--	--	--	0.013 U
alpha-BHC	µg/L	--	--	--	0.013 U
alpha-Chlordane	µg/L	--	--	--	0.012 U
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	0.057 U
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	0.10 U
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	0.080 U
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	0.069 U
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	0.057 U
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	0.034 U
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	0.046 U
beta-BHC	µg/L	--	--	--	0.017 U
delta-BHC	µg/L	--	--	--	0.028 U
Dieldrin	µg/L	--	--	--	0.013 U
Endosulfan I	µg/L	--	--	--	0.17
Endosulfan II	µg/L	--	--	--	0.014 U
Endosulfan sulfate	µg/L	--	--	--	0.014 U
Endrin	µg/L	--	--	--	0.013 U
Endrin aldehyde	µg/L	--	--	--	0.017 UJ
Endrin ketone	µg/L	--	--	--	0.015 U
gamma-BHC (lindane)	µg/L	--	--	--	0.013 U
gamma-Chlordane	µg/L	--	--	--	0.013 U
Heptachlor	µg/L	--	--	--	0.013 U
Heptachlor epoxide	µg/L	--	--	--	0.014 U
Methoxychlor	µg/L	--	--	--	0.013 U
Toxaphene	µg/L	--	--	--	0.19 U

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-35	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121817-KVM-009	GW-38443-121917-KVM-010	GW-38443-121917-KVM-011	GW-38443-121917-KVM-012
	Sample Date:	12/18/2017	12/19/2017	12/19/2017	12/19/2017
	Depth:	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-60 ft BGS
Parameters	**Unit**				
Metals					
Aluminum	µg/L	190	60	38 J	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	1.7 J	0.62 J	0.57 U
Antimony (dissolved)	µg/L	0.57 U	1.1 J	0.57 U	0.57 U
Arsenic	µg/L	2.1 J	1.1 J	1.1 J	3.2 J
Arsenic (dissolved)	µg/L	1.2 J	0.89 J	0.76 J	3.1 J
Barium	µg/L	650	730	710	410
Barium (dissolved)	µg/L	670	720	730	400
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	140000	120000	120000	110000
Calcium (dissolved)	µg/L	120000	120000	120000	110000
Chromium	µg/L	2.9	1.3 J	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.26 J	0.29 J	0.19 U	0.19 J
Cobalt (dissolved)	µg/L	0.19 U	0.20 J	0.19 U	0.19 U
Copper	µg/L	2.6	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	4100	3000	2900	2000
Iron (dissolved)	µg/L	3300	2400	2400	1900
Lead	µg/L	0.90 J	0.59 J	0.49 J	0.63 J
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.48 J
Magnesium	µg/L	43000	38000	37000	34000
Magnesium (dissolved)	µg/L	38000	39000	38000	34000
Manganese	µg/L	93	57	52	57
Manganese (dissolved)	µg/L	49	44	44	56
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	6300	5900	5900	5500
Potassium (dissolved)	µg/L	6300	6000	5900	5500
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-121817-KVM-009**	**GW-38443-121917-KVM-010**	**GW-38443-121917-KVM-011**	**GW-38443-121917-KVM-012**
Sample Date:		**12/18/2017**	**12/19/2017**	**12/19/2017**	**12/19/2017**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**45-50 ft BGS Duplicate**	**50-60 ft BGS**
Parameters	**Unit**				
Metals					
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	46000	44000	43000	38000
Sodium (dissolved)	µg/L	47000	45000	44000	38000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	190	300	270	270
Zinc (dissolved)	µg/L	140	270	250	250
General Chemistry					
Cyanide (total)	mg/L	--	--	--	0.0060 U
Chloride	µg/L	84000	72000	72000	68000
Nitrate (as N)	µg/L	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	42000	23000	23000	4300
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0084 U	0.0084 U	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U	0.0071 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not dtected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
	Sample Name:	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**
	Sample Date:	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**
	Depth:	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.46 U	2.3 U	4.6 U	1.2 U
1,1,2,2-Tetrachloroethane	µg/L	0.64 U	3.2 U	6.4 U	1.6 U
1,1,2-Trichloroethane	µg/L	0.68 U	3.4 U	6.8 U	1.7 U
1,1-Dichloroethane	µg/L	0.50 U	2.5 U	5.0 U	1.3 U
1,1-Dichloroethene	µg/L	0.54 U	2.7 U	5.4 U	1.4 U
1,2,4-Trichlorobenzene	µg/L	0.54 U	2.7 U	5.4 U	1.4 U
1,2-Dichlorobenzene	µg/L	0.52 U	2.6 U	5.2 U	1.3 U
1,2-Dichloroethane	µg/L	0.60 U	3.0 U	6.0 U	1.5 U
1,2-Dichloropropane	µg/L	0.60 U	3.0 U	6.0 U	1.5 U
1,3-Dichlorobenzene	µg/L	0.64 U	3.2 U	6.4 U	1.6 U
1,4-Dichlorobenzene	µg/L	0.46 U	2.3 U	4.6 U	1.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	4.6 J	10 U	20 U	5.1 U
2-Hexanone	µg/L	2.5 U	12 U	25 U	6.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1.4 U	7.1 U	14 U	3.6 U
Acetone	µg/L	15 J	18 U	35 U	8.8 U
Benzene	µg/L	3.3	36	14 J	35
Bromodichloromethane	µg/L	0.60 U	3.0 U	6.0 U	1.5 U
Bromoform	µg/L	0.86 UJ	4.3 U	8.6 U	2.2 U
Bromomethane (Methyl bromide)	µg/L	0.84 U	4.2 UJ	8.4 UJ	2.1 UJ
Carbon disulfide	µg/L	0.68 U	3.4 U	6.8 U	1.7 U
Carbon tetrachloride	µg/L	0.70 U	3.5 U	7.0 U	1.8 U
Chlorobenzene	µg/L	0.64 U	3.2 U	6.4 U	1.6 U
Chloroethane	µg/L	0.82 U	4.1 UJ	8.2 UJ	2.1 UJ
Chloroform (Trichloromethane)	µg/L	0.62 U	3.1 U	6.2 U	1.6 U
Chloromethane (Methyl chloride)	µg/L	0.86 U	4.3 U	8.6 U	2.2 U
cis-1,2-Dichloroethene	µg/L	12	3.0 U	6.0 U	1.5 U
cis-1,3-Dichloropropene	µg/L	0.52 U	2.6 U	5.2 U	1.3 U
Cyclohexane	µg/L	24	110	280	65
Dibromochloromethane	µg/L	0.50 U	2.5 U	5.0 U	1.3 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	5.0 U	10 U	2.5 U
Ethylbenzene	µg/L	21	2.6 U	5.2 U	1.3 U
Isopropyl benzene	µg/L	3.3	2.1 U	4.2 U	1.1 U
m&p-Xylenes	µg/L	75	22	110	15
Methyl acetate	µg/L	2.9 U	14 U	29 U	7.2 U
Methyl cyclohexane	µg/L	14	4.5 U	9.0 U	2.3 U
Methyl tert butyl ether (MTBE)	µg/L	0.54 U	2.7 U	5.4 U	1.4 U
Methylene chloride	µg/L	1.1 U	5.3 U	11 U	2.7 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-35	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121917-KVM-013	GW-38443-122017-KVM-014	GW-38443-122017-KVM-015	GW-38443-122017-KVM-016
	Sample Date:	12/19/2017	12/20/2017	12/20/2017	12/20/2017
	Depth:	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds					
o-Xylene	µg/L	1.1 J	2.8 U	5.6 U	1.7 J
Styrene	µg/L	0.46 U	2.3 U	4.6 U	1.2 U
Tetrachloroethene	µg/L	0.60 U	3.0 U	6.0 U	1.5 U
Toluene	µg/L	0.46 U	10	14 J	16
trans-1,2-Dichloroethene	µg/L	0.58 U	2.9 U	5.8 U	1.5 U
trans-1,3-Dichloropropene	µg/L	0.62 U	3.1 U	6.2 U	1.6 U
Trichloroethene	µg/L	0.66 U	3.3 U	6.6 U	1.7 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	5.0 U	10 U	2.5 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.82 U	4.1 U	8.2 U	2.1 U
Vinyl chloride	µg/L	6.7	4.5 U	9.0 U	2.3 U
Xylenes (total)	µg/L	76	22	110	17
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
	Sample Name:	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**
	Sample Date:	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**
	Depth:	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-35	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-121917-KVM-013	GW-38443-122017-KVM-014	GW-38443-122017-KVM-015	GW-38443-122017-KVM-016
	Sample Date:	12/19/2017	12/20/2017	12/20/2017	12/20/2017
	Depth:	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS
Parameters	**Unit**				
Semivolatile Organic Compounds					
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
	Sample Name:	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**
	Sample Date:	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**
	Depth:	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	58	41 J	110	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	1.9 J	4.7 J	4.8 J	7.9
Arsenic (dissolved)	µg/L	2.3 J	4.5 J	3.9 J	7.8
Barium	µg/L	100	850	800	840
Barium (dissolved)	µg/L	100	850	790	840
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	100000	92000	98000	82000
Calcium (dissolved)	µg/L	110000	88000	94000	82000
Chromium	µg/L	0.98 U	1.1 J	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.20 J	0.39 J	0.19 U	0.24 J
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.19 U	0.23 J
Copper	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	1800	11000	8400	7800
Iron (dissolved)	µg/L	1500	5600	7300	7700
Lead	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	33000	36000	38000	37000
Magnesium (dissolved)	µg/L	33000	36000	37000	37000
Manganese	µg/L	140	88	81	59
Manganese (dissolved)	µg/L	140	63	70	57
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	2.4	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	5300	4500	5100	5500
Potassium (dissolved)	µg/L	5400	4500	5000	5600
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
	Sample Name:	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**
	Sample Date:	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**
	Depth:	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Metals					
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	39000	31000	32000	29000
Sodium (dissolved)	µg/L	40000	31000	31000	29000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	310	1100	280	320
Zinc (dissolved)	µg/L	300	960	270	320
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	74000	73000	75000	69000
Nitrate (as N)	µg/L	4600	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	62000	4200	4500	5100
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0084 U	0.0084 U	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U	0.0071 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not dtected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/21/2017**	**12/21/2017**	**01/03/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	2.3 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	3.2 U	0.32 U	0.32 UJ
1,1,2-Trichloroethane	µg/L	3.4 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	2.5 U	0.25 U	1.0
1,1-Dichloroethene	µg/L	2.7 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	2.7 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	2.6 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	3.0 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	3.0 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	3.2 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	2.3 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 UJ	1.0 UJ	1.0 U
2-Hexanone	µg/L	12 UJ	1.2 UJ	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	7.1 U	0.71 U	0.71 U
Acetone	µg/L	18 U	2.1 J	1.8 U
Benzene	µg/L	26	1.3	0.41 J
Bromodichloromethane	µg/L	3.0 U	0.30 U	0.30 U
Bromoform	µg/L	4.3 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	4.2 U	0.42 U	0.42 U
Carbon disulfide	µg/L	3.4 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	3.5 UJ	0.35 UJ	0.35 UJ
Chlorobenzene	µg/L	3.2 U	0.32 U	0.32 U
Chloroethane	µg/L	4.1 UJ	0.41 UJ	0.41 U
Chloroform (Trichloromethane)	µg/L	3.1 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	4.3 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	3.0 U	0.30 U	0.63 J
cis-1,3-Dichloropropene	µg/L	2.6 U	0.26 U	0.26 U
Cyclohexane	µg/L	280 J	9.2 J	0.44 U
Dibromochloromethane	µg/L	2.5 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	5.0 UJ	0.50 UJ	0.50 U
Ethylbenzene	µg/L	2.6 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	2.1 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	12 J	0.55 J	0.24 U
Methyl acetate	µg/L	14 UJ	1.4 UJ	1.4 U
Methyl cyclohexane	µg/L	4.5 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	2.7 U	0.27 U	0.27 U
Methylene chloride	µg/L	5.3 U	0.53 U	0.53 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/21/2017**	**12/21/2017**	**01/03/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Parameters	**Unit**			
Volatile Organic Compounds				
o-Xylene	µg/L	2.8 U	0.28 U	0.28 U
Styrene	µg/L	2.3 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	3.0 U	0.30 U	0.30 U
Toluene	µg/L	20	0.87 J	0.23 U
trans-1,2-Dichloroethene	µg/L	2.9 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	3.1 U	0.31 U	0.31 U
Trichloroethene	µg/L	3.3 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	5.0 UJ	0.50 UJ	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	4.1 U	0.41 U	0.41 U
Vinyl chloride	µg/L	4.5 U	0.45 U	2.4
Xylenes (total)	µg/L	12 J	0.55 J	0.24 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--
2-Chloronaphthalene	µg/L	--	--	--
2-Chlorophenol	µg/L	--	--	--
2-Methylnaphthalene	µg/L	--	--	--
2-Methylphenol	µg/L	--	--	--
2-Nitroaniline	µg/L	--	--	--
2-Nitrophenol	µg/L	--	--	--
3&4-Methylphenol	µg/L	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--
3-Nitroaniline	µg/L	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--
4-Chloroaniline	µg/L	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--
4-Nitroaniline	µg/L	--	--	--
4-Nitrophenol	µg/L	--	--	--

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/21/2017**	**12/21/2017**	**01/03/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acenaphthene	µg/L	--	--	--
Acenaphthylene	µg/L	--	--	--
Acetophenone	µg/L	--	--	--
Anthracene	µg/L	--	--	--
Atrazine	µg/L	--	--	--
Benzaldehyde	µg/L	--	--	--
Benzo(a)anthracene	µg/L	--	--	--
Benzo(a)pyrene	µg/L	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--
Caprolactam	µg/L	--	--	--
Carbazole	µg/L	--	--	--
Chrysene	µg/L	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--
Dibenzofuran	µg/L	--	--	--
Diethyl phthalate	µg/L	--	--	--
Dimethyl phthalate	µg/L	--	--	--
Fluoranthene	µg/L	--	--	--
Fluorene	µg/L	--	--	--
Hexachlorobenzene	µg/L	--	--	--
Hexachlorobutadiene	µg/L	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--
Hexachloroethane	µg/L	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--
Isophorone	µg/L	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--
Naphthalene	µg/L	--	--	--
Nitrobenzene	µg/L	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-35**	**VAS-35**	**VAS-35**
	Sample Name:	**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
	Sample Date:	**12/21/2017**	**12/21/2017**	**01/03/2018**
	Depth:	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Pentachlorophenol	µg/L	--	--	--
Phenanthrene	µg/L	--	--	--
Phenol	µg/L	--	--	--
Pyrene	µg/L	--	--	--
Pesticides/PCBs				
4,4'-DDD	µg/L	--	--	--
4,4'-DDE	µg/L	--	--	--
4,4'-DDT	µg/L	--	--	--
Aldrin	µg/L	--	--	--
alpha-BHC	µg/L	--	--	--
alpha-Chlordane	µg/L	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--
beta-BHC	µg/L	--	--	--
delta-BHC	µg/L	--	--	--
Dieldrin	µg/L	--	--	--
Endosulfan I	µg/L	--	--	--
Endosulfan II	µg/L	--	--	--
Endosulfan sulfate	µg/L	--	--	--
Endrin	µg/L	--	--	--
Endrin aldehyde	µg/L	--	--	--
Endrin ketone	µg/L	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--
gamma-Chlordane	µg/L	--	--	--
Heptachlor	µg/L	--	--	--
Heptachlor epoxide	µg/L	--	--	--
Methoxychlor	µg/L	--	--	--
Toxaphene	µg/L	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/21/2017**	**12/21/2017**	**01/03/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	76	150	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	1.8 J	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.74 J	0.57 U	0.57 U
Arsenic	µg/L	6.9	1.4 J	1.5 J
Arsenic (dissolved)	µg/L	7.3	0.78 J	1.4 J
Barium	µg/L	1200	470	330
Barium (dissolved)	µg/L	1200	450	330
Beryllium	µg/L	0.57 J	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.32 J	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U
Calcium	µg/L	81000	76000	65000
Calcium (dissolved)	µg/L	83000	71000	63000
Chromium	µg/L	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.28 J	0.30 J	0.19 U
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.19 U
Copper	µg/L	1.7 U	1.7 U	3.1
Copper (dissolved)	µg/L	1.7 U	1.7 U	2.5
Iron	µg/L	8700	5200	4700
Iron (dissolved)	µg/L	8400	4300	2800
Lead	µg/L	0.45 U	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	36000	34000	31000
Magnesium (dissolved)	µg/L	37000	32000	29000
Manganese	µg/L	59	87	75
Manganese (dissolved)	µg/L	56	73	63
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U
Potassium	µg/L	5300	5400	4900
Potassium (dissolved)	µg/L	5400	5100	4700
Selenium	µg/L	1.1 J	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/21/2017**	**12/21/2017**	**01/03/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Parameters	**Unit**			
Metals				
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U
Sodium	µg/L	29000	38000	45000
Sodium (dissolved)	µg/L	30000	36000	43000
Thallium	µg/L	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	310	320	250
Zinc (dissolved)	µg/L	320	300	200
General Chemistry				
Cyanide (total)	mg/L	--	--	--
Chloride	µg/L	69000	67000	63000
Nitrate (as N)	µg/L	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	5300	5200	5800
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0084 U	0.0084 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0087 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not dtected; associated reporting limit is estimated
-- - Not applicable

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-010318-KVM-020**	**GW-38443-010318-KVM-021**	**GW-38443-010418-KVM-022**
Sample Date:		**01/03/2018**	**01/03/2018**	**01/04/2018**
Depth:		**130-140 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	2.9 U	2.9 U	2.6 U
1,1,2,2-Tetrachloroethane	µg/L	4.0 UJ	4.0 UJ	3.6 U
1,1,2-Trichloroethane	µg/L	4.3 U	4.3 U	3.8 U
1,1-Dichloroethane	µg/L	3.1 U	3.1 U	2.8 U
1,1-Dichloroethene	µg/L	3.4 U	3.4 U	3.0 U
1,2,4-Trichlorobenzene	µg/L	3.4 U	3.4 U	3.0 U
1,2-Dichlorobenzene	µg/L	3.3 U	3.3 U	2.9 U
1,2-Dichloroethane	µg/L	3.8 U	3.8 U	3.3 U
1,2-Dichloropropane	µg/L	3.8 U	3.8 U	3.3 U
1,3-Dichlorobenzene	µg/L	4.0 U	4.0 U	3.6 U
1,4-Dichlorobenzene	µg/L	2.9 U	2.9 U	2.6 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	13 U	13 U	11 U
2-Hexanone	µg/L	15 U	15 U	14 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	8.9 U	8.9 U	7.9 U
Acetone	µg/L	22 U	22 U	20 U
Benzene	µg/L	3.6 J	3.5 U	3.1 U
Bromodichloromethane	µg/L	3.8 U	3.8 U	3.3 U
Bromoform	µg/L	5.4 U	5.4 U	4.8 U
Bromomethane (Methyl bromide)	µg/L	5.3 U	5.3 U	4.7 U
Carbon disulfide	µg/L	4.3 U	4.3 U	3.8 U
Carbon tetrachloride	µg/L	4.4 UJ	4.4 UJ	3.9 U
Chlorobenzene	µg/L	4.0 U	4.0 U	3.6 U
Chloroethane	µg/L	5.1 U	5.1 U	4.6 U
Chloroform (Trichloromethane)	µg/L	3.9 U	3.9 U	3.4 U
Chloromethane (Methyl chloride)	µg/L	5.4 U	5.4 U	4.8 U
cis-1,2-Dichloroethene	µg/L	72	66	6.6 J
cis-1,3-Dichloropropene	µg/L	3.3 U	3.3 U	2.9 U
Cyclohexane	µg/L	5.5 U	5.5 U	4.9 U
Dibromochloromethane	µg/L	3.1 U	3.1 U	2.8 U
Dichlorodifluoromethane (CFC-12)	µg/L	6.3 U	6.3 U	5.6 U
Ethylbenzene	µg/L	3.3 U	3.3 U	2.9 U
Isopropyl benzene	µg/L	2.6 U	2.6 U	2.3 U
m&p-Xylenes	µg/L	3.0 U	3.0 U	2.7 U
Methyl acetate	µg/L	18 U	18 U	16 U
Methyl cyclohexane	µg/L	5.6 U	5.6 U	5.0 U
Methyl tert butyl ether (MTBE)	µg/L	3.4 U	3.4 U	3.0 U
Methylene chloride	µg/L	6.6 U	6.6 U	5.9 U

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	**VAS-35**	**VAS-35**	**VAS-35**
	Sample Name:	**GW-38443-010318-KVM-020**	**GW-38443-010318-KVM-021**	**GW-38443-010418-KVM-022**
	Sample Date:	**01/03/2018**	**01/03/2018**	**01/04/2018**
	Depth:	**130-140 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds				
o-Xylene	µg/L	3.5 U	3.5 U	3.1 U
Styrene	µg/L	2.9 U	2.9 U	2.6 U
Tetrachloroethene	µg/L	3.8 U	3.8 U	3.3 U
Toluene	µg/L	2.9 U	2.9 U	2.6 U
trans-1,2-Dichloroethene	µg/L	3.6 U	3.6 U	3.2 U
trans-1,3-Dichloropropene	µg/L	3.9 U	3.9 U	3.4 U
Trichloroethene	µg/L	4.1 U	4.1 U	3.7 U
Trichlorofluoromethane (CFC-11)	µg/L	6.3 U	6.3 U	5.6 U
Trifluorotrichloroethane (CFC-113)	µg/L	5.1 U	5.1 U	4.6 U
Vinyl chloride	µg/L	190	170	140
Xylenes (total)	µg/L	3.0 U	3.0 U	2.7 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--
2-Chloronaphthalene	µg/L	--	--	--
2-Chlorophenol	µg/L	--	--	--
2-Methylnaphthalene	µg/L	--	--	--
2-Methylphenol	µg/L	--	--	--
2-Nitroaniline	µg/L	--	--	--
2-Nitrophenol	µg/L	--	--	--
3&4-Methylphenol	µg/L	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--
3-Nitroaniline	µg/L	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--
4-Chloroaniline	µg/L	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--
4-Nitroaniline	µg/L	--	--	--
4-Nitrophenol	µg/L	--	--	--

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-010318-KVM-020**	**GW-38443-010318-KVM-021**	**GW-38443-010418-KVM-022**
Sample Date:		**01/03/2018**	**01/03/2018**	**01/04/2018**
Depth:		**130-140 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
			Duplicate	
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acenaphthene	µg/L	--	--	--
Acenaphthylene	µg/L	--	--	--
Acetophenone	µg/L	--	--	--
Anthracene	µg/L	--	--	--
Atrazine	µg/L	--	--	--
Benzaldehyde	µg/L	--	--	--
Benzo(a)anthracene	µg/L	--	--	--
Benzo(a)pyrene	µg/L	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--
Caprolactam	µg/L	--	--	--
Carbazole	µg/L	--	--	--
Chrysene	µg/L	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--
Dibenzofuran	µg/L	--	--	--
Diethyl phthalate	µg/L	--	--	--
Dimethyl phthalate	µg/L	--	--	--
Fluoranthene	µg/L	--	--	--
Fluorene	µg/L	--	--	--
Hexachlorobenzene	µg/L	--	--	--
Hexachlorobutadiene	µg/L	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--
Hexachloroethane	µg/L	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--
Isophorone	µg/L	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--
Naphthalene	µg/L	--	--	--
Nitrobenzene	µg/L	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

	Location ID:	VAS-35	VAS-35	VAS-35
	Sample Name:	GW-38443-010318-KVM-020	GW-38443-010318-KVM-021	GW-38443-010418-KVM-022
	Sample Date:	01/03/2018	01/03/2018	01/04/2018
	Depth:	130-140 ft BGS	130-140 ft BGS	140-150 ft BGS
			Duplicate	
Parameters	**Unit**			
Semivolatile Organic Compounds				
Pentachlorophenol	µg/L	--	--	--
Phenanthrene	µg/L	--	--	--
Phenol	µg/L	--	--	--
Pyrene	µg/L	--	--	--
Pesticides/PCBs				
4,4'-DDD	µg/L	--	--	--
4,4'-DDE	µg/L	--	--	--
4,4'-DDT	µg/L	--	--	--
Aldrin	µg/L	--	--	--
alpha-BHC	µg/L	--	--	--
alpha-Chlordane	µg/L	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--
beta-BHC	µg/L	--	--	--
delta-BHC	µg/L	--	--	--
Dieldrin	µg/L	--	--	--
Endosulfan I	µg/L	--	--	--
Endosulfan II	µg/L	--	--	--
Endosulfan sulfate	µg/L	--	--	--
Endrin	µg/L	--	--	--
Endrin aldehyde	µg/L	--	--	--
Endrin ketone	µg/L	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--
gamma-Chlordane	µg/L	--	--	--
Heptachlor	µg/L	--	--	--
Heptachlor epoxide	µg/L	--	--	--
Methoxychlor	µg/L	--	--	--
Toxaphene	µg/L	--	--	--

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-010318-KVM-020**	**GW-38443-010318-KVM-021**	**GW-38443-010418-KVM-022**
Sample Date:		**01/03/2018**	**01/03/2018**	**01/04/2018**
Depth:		**130-140 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
			Duplicate	
Parameters	**Unit**			
Metals				
Aluminum	µg/L	1100	1200	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	1.4 UJ
Antimony (dissolved)	µg/L	0.57 U	0.57 U	5.6 J
Arsenic	µg/L	2.4 J	2.0 J	0.97 J
Arsenic (dissolved)	µg/L	1.2 J	1.5 J	1.1 J
Barium	µg/L	240	240	190
Barium (dissolved)	µg/L	250	240	190
Beryllium	µg/L	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.34 J
Calcium	µg/L	93000	94000	79000
Calcium (dissolved)	µg/L	78000	74000	81000
Chromium	µg/L	16	14	2.6
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	1.2	1.1	0.20 J
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.19 U
Copper	µg/L	6.0	4.9	1.7 U
Copper (dissolved)	µg/L	6.6 J	1.7 UJ	1.7 U
Iron	µg/L	5800	5900	3000
Iron (dissolved)	µg/L	2200	2100	2700
Lead	µg/L	2.1	2.0	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	34000	35000	30000
Magnesium (dissolved)	µg/L	30000	28000	30000
Manganese	µg/L	240	240	200
Manganese (dissolved)	µg/L	150	150	200
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	8.2	7.8	1.9 J
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U
Potassium	µg/L	5600	5600	7100
Potassium (dissolved)	µg/L	5700	5400	7300
Selenium	µg/L	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.93 J
Silver	µg/L	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Location ID:		**VAS-35**	**VAS-35**	**VAS-35**
Sample Name:		**GW-38443-010318-KVM-020**	**GW-38443-010318-KVM-021**	**GW-38443-010418-KVM-022**
Sample Date:		**01/03/2018**	**01/03/2018**	**01/04/2018**
Depth:		**130-140 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
			Duplicate	
Parameters	**Unit**			
Metals				
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U
Sodium	µg/L	43000	43000	40000
Sodium (dissolved)	µg/L	47000	45000	41000
Thallium	µg/L	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	3.1 J	2.7 J	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	280	280	250
Zinc (dissolved)	µg/L	260	250	260
General Chemistry				
Cyanide (total)	mg/L	--	--	--
Chloride	µg/L	62000	62000	55000
Nitrate (as N)	µg/L	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	50000	50000	89000
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U

Notes:

PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not dtected; associated reporting limit is estimated
-- - Not applicable

Table 3

Analytical Methods
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Fumigants	SW-846 8011	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Water	7	40
Total & Dissolved Metals	SW-846 6020	Water	-	180
Total & Dissolved Mercury	SW-846 7470A	Water	-	28
Cyanide	SW-846 9012B	Water	-	14
Anions (Chloride, Sulfate, Nitrate, Nitrite)	EPA 300.0	Water	-	28 48 hours for Nitrate & Nitrite

Notes:

- - Not applicable
EPA - "Methods for Chemical Analysis of Water and Wastes," EPA-600/4-79-020, March 1983 (with all subsequent revisions).

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromomethane (Methyl bromide)	12/23/2017	34	GW-38443-121317-KVM-002	6.0 UJ	µg/L
				GW-38443-121417-KVM-003	0.42 UJ	µg/L
				GW-38443-121417-KVM-004	0.42 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	12/26/2017	41	GW-38443-121317-KVM-001	0.70 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	12/21/2017	48	GW-38443-121517-KVM-005	0.50 UJ	µg/L
VOCs	Chloroethane	12/27/2017	46	GW-38443-121817-KVM-009	0.41 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	12/27/2017	49	GW-38443-121817-KVM-009	0.50 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	12/28/2017	56	GW-38443-121817-KVM-006	0.42 UJ	µg/L
				GW-38443-121817-KVM-008	0.42 UJ	µg/L
VOCs	Chloroethane	12/28/2017	63	GW-38443-121817-KVM-006	0.41 UJ	µg/L
				GW-38443-121817-KVM-008	0.41 UJ	µg/L
VOCs	Acetone	12/29/2017	56	GW-38443-121817-KVM-007	1.8 UJ	µg/L
VOCs	Chloroethane	12/29/2017	48	GW-38443-121817-KVM-007	0.41 UJ	µg/L
VOCs	Trifluorotrichloroethane (CFC-113)	12/29/2017	42	GW-38443-121817-KVM-007	0.41 UJ	µg/L
VOCs	Bromoform	12/30/2017	34	GW-38443-121917-KVM-010	1.7 UJ	µg/L
				GW-38443-121917-KVM-011	1.7 UJ	µg/L
				GW-38443-121917-KVM-012	220 UJ	µg/L
				GW-38443-121917-KVM-013	0.86 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	12/30/2017	37	GW-38443-122017-KVM-014	4.2 UJ	µg/L
				GW-38443-122017-KVM-015	8.4 UJ	µg/L
				GW-38443-122017-KVM-016	2.1 UJ	µg/L

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Chloroethane	12/30/2017	45	GW-38443-122017-KVM-014	4.1 UJ	µg/L
				GW-38443-122017-KVM-015	8.2 UJ	µg/L
				GW-38443-122017-KVM-016	2.1 UJ	µg/L
VOCs	2-Butanone	01/02/2018	71	GW-38443-122117-KVM-017	10 UJ	µg/L
				GW-38443-122117-KVM-018	1.0 UJ	µg/L
VOCs	2-Hexanone	01/02/2018	48	GW-38443-122117-KVM-017	12 UJ	µg/L
				GW-38443-122117-KVM-018	1.2 UJ	µg/L
VOCs	Carbon tetrachloride	01/02/2018	27	GW-38443-122117-KVM-017	3.5 UJ	µg/L
				GW-38443-122117-KVM-018	0.35 UJ	µg/L
VOCs	Chloroethane	01/02/2018	48	GW-38443-122117-KVM-017	4.1 UJ	µg/L
				GW-38443-122117-KVM-018	0.41 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	01/02/2018	44	GW-38443-122117-KVM-017	5.0 UJ	µg/L
				GW-38443-122117-KVM-018	0.50 UJ	µg/L
VOCs	Methyl acetate	01/02/2018	45	GW-38443-122117-KVM-017	14 UJ	µg/L
				GW-38443-122117-KVM-018	1.4 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	01/02/2018	70	GW-38443-122117-KVM-017	5.0 UJ	µg/L
				GW-38443-122117-KVM-018	0.50 UJ	µg/L
VOCs	1,1,2,2-Tetrachloroethane	01/08/2018	38	GW-38443-010318-KVM-019	0.32 UJ	µg/L
				GW-38443-010318-KVM-020	4.0 UJ	µg/L
				GW-38443-010318-KVM-021	4.0 UJ	µg/L
VOCs	Carbon tetrachloride	01/08/2018	26	GW-38443-010318-KVM-019	0.35 UJ	µg/L
				GW-38443-010318-KVM-020	4.4 UJ	µg/L
				GW-38443-010318-KVM-021	4.4 UJ	µg/L
Pesticides	Endrin aldehyde	12/27/2017	22	GW-38443-121917-KVM-012	0.017 UJ	µg/L

Notes:

-- - Not applicable
%D - Percent difference
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Raw Blank Result	DF	Sample ID	Original Result	Qualified Result	Units
VOCs	Methylene chloride	12/23/2017	13.02 J	0.912 J	14.28	GW-38443-121317-KVM-002	13 J	13 U	µg/L
SVOCs	Diethyl phthalate	12/22/2017	0.62 J	0.624 J	1	GW-38443-121917-KVM-012	0.67 J	0.67 U	µg/L
General Chemistry	Cyanide (total)	12/21/2017	0.002 J	0.002 J	1	GW-38443-121817-KVM-006	0.0026 J	0.003 U	mg/L

Notes:

* - Blank result adjusted for sample factors
DF - Dilution Factor
J - Estimated concentration
SVOCs - Semivolatile Organic Compounds
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Instrument Blanks
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Analyte	Blank ID	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
Metals	Antimony	CCB	12/21/2017	0.825 J	GW-38443-121817-KVM-006	1.4 J	1.4 U	µg/L
	Antimony				GW-38443-121817-KVM-007	0.63 J	0.82 U	µg/L
	Antimony (dissolved)				GW-38443-121817-KVM-007	1.0 J	1.0 U	µg/L
Metals	Antimony	CCB	01/09/2018	0.712 J	GW-38443-010418-KVM-022	1.4 J	1.4 U	µg/L

Notes:

CCB - Continuing Calibration Blank
J - Estimated concentration
U - Not detected at the associated reporting limit

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	GW-38443-121817-KVM-006	Toluene-D8	124	73-120	cis-1,2-Dichloroethene	1.9 J	µg/L
VOCs	GW-38443-121817-KVM-009	Dibromofluoromethane	130	69-124	Carbon disulfide	0.55 J	µg/L
		p-Bromofluorobenzene	125	69-120	cis-1,2-Dichloroethene	0.46 J	µg/L
		Toluene-D8	139	73-120	Cyclohexane	0.83 J	µg/L

Notes:

J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 8

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	Acetone	01/02/2018	157	35-131	GW-38443-122117-KVM-018	2.1 J	µg/L
VOCs	Cyclohexane	01/02/2018	149	66-135	GW-38443-122117-KVM-017	280 J	µg/L
					GW-38443-122117-KVM-018	9.2 J	µg/L

Notes:

J - Estimated concentration
LCS - Laboratory Control Sample
VOCs - Volatile Organic Compounds

Table 9

Qualified Sample Data Due to Variability in Field Duplicate Results
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Metals	Copper (dissolved)	118	4.9	2	GW-38443-010318-KVM-020	6.6 J	GW-38443-010318-KVM-021	1.7 UJ	µg/L

Notes:

Diff - Difference (<RL for water)
J - Estimated concentration
RL - Reporting Limit
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated

Table 10

Qualified Sample Data Due to Discrepancies Between Total and Dissolved Results
VAS-15b and VAS-35 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
December 2017-January 2018

Parameter	Sample ID	Analyte	%D	Criteria (percent)	Qualified Total Result	Qualified Dissolved Result	Units
Metals	GW-38443-010418-KVM-022	Antimony	300	20	1.4 UJ	5.6 J	µg/L
		Cadmium	62		0.21 J	0.34 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Memorandum

March 15, 2018

To:	Julian Hayward	Ref. No.:	038443-370
From:	Ruth Mickle/cs/36-NF	Tel:	612-524-6872
cc:	Brent Ramdial, Valerie Chan, Angela Bown		

Subject: **Analytical Results and Full Validation**
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

1. Introduction

This document details a validation of analytical results for water samples collected in support of the VAS-32 and VAS-33 Groundwater Sampling Program at the Moraine, Ohio site during January 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E-Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. Due to laboratory QC issues, two samples submitted for PCB analyses were re-extracted outside the required holding times. The associated PCB data were qualified estimated, as noted in Table 4.

Several samples that were submitted for volatile organic compound (VOC) analyses were received at the laboratory with a pH >2. Since the associated samples were analyzed within seven days of sample collection, no data qualification was required. The remaining investigative samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to VOC and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is

analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Fumigants

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration

curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the coefficient of determination (R^2) is 0.990 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide	85 - 115%
Instrumental Wet Chemistry	Anions	90 - 110%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 5.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. Several CCV recoveries for beryllium were reported slightly above the upper control limit during one analytical sequence. Since the associated sample data were non-detect, no data qualification was required. All other analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 6 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive antimony results with similar concentrations to the levels reported in CCBs were qualified as non-detect (Table 7).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than five times that were necessary to successfully analyze the samples, several surrogate recoveries in investigative samples were not assessed. Most of the remaining surrogate recoveries were within the laboratory criteria. Where surrogate recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. Table 8 presents the sample results that were qualified due to outlying surrogate recoveries.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

11. Laboratory Control Sample Analyses

LCS are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects.

11.1 Organic Analyses

The LCS contained all compounds of interest or the compounds specified in the method. Most LCS recoveries were within the laboratory control limits demonstrating acceptable analytical accuracy. Table 9 presents the sample results that were qualified as estimated due to observed high bias in the associated LCS.

11.2 Inorganic Analyses

The LCS contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries were within the control limits demonstrating acceptable analytical accuracy.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. Table 10 presents the outlying matrix spike results from VOC analyses. The associated sample data were qualified estimated, as noted in the table. The remaining percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". Table 10 presents the outlying matrix spike results from beryllium (metals) analyses. The associated sample data were qualified estimated, as noted in the table. The remaining percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". Table 11 presents the outlying ICS results for beryllium. The associated sample detections were qualified estimated, as noted in the table. The remaining ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of six trip blank samples, one field blank sample, one rinse blank sample and two field duplicate sample sets.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, six trip blanks were submitted to the laboratory for VOC analysis. All trip blank results were non-detect for the compounds of interest.

15.2 Field Blank Sample Analysis

To assess ambient conditions at the site and cleanliness of sample containers, one field blank was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest.

15.3 Rinse Blank Sample Analysis

To assess field decontamination procedures, one rinse blank was submitted for analysis, as identified in Table 1. The rinse blank yielded several detections of VOCs and inorganic parameters. The associated sample that contained similar concentrations of metals parameters was assumed a reflection of field contamination and the results were qualified non-detect, as detailed in Table 12. The associated non-metals parameters were either non-detect or did not require qualification.

15.4 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 13 presents metals sample results from one field duplicate set that were qualified estimated due to variability in the field duplicate results.

16. Total versus Dissolved Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20%D). The dissolved zinc result for one investigative sample was greater than the total result and were in exceedance of the method variability. The associated results were qualified estimated, as noted in Table 14.

17. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

18. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide, PCB and fumigant analyses were performed using dual column analyses. All the results showed good correlation between the two columns (<40 RPD).

19. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

							Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Initial Sample Depth (ft. bgs.)**	**Final Sample Depth (ft. bgs.)**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Total Metals & Mercury**	**Cyanide**	**Anions**	**Comments**
TestAmerica SDG No:240-90140-1																	
TRIPBLANK-010818-KMV	--	water	--	--	01/08/2018	08:00	X				X						Trip Blank
GW-38443-010818-KMV-023	VAS-32	water	35	40	01/08/2018	09:40	X	X	X	X	X	X	X		X	X	
GW-38443-010818-KMV-024	VAS-32	water	40	45	01/08/2018	11:00	X				X	X	X			X	MS/MSD
GW-38443-010818-KMV-025	VAS-32	water	45	50	01/08/2018	12:15	X				X	X	X			X	
GW-38443-010818-KMV-026	VAS-32	water	50	60	01/08/2018	13:45	X	X	X	X	X	X	X		X	X	
GW-38443-010818-KMV-027	VAS-32	water	60	70	01/08/2018	14:59	X				X	X	X			X	
TestAmerica SDG No:240-90177-1																	
TRIP BLANK-010918-KVM	Trip Blank	water	--	--	01/09/2018	08:00	X				X						Trip Blank
GW-38443-010918-KVM-028	VAS-32	water	70	80	01/09/2018	08:45	X				X	X	X			X	MS/MSD
GW-38443-010918-KVM-029	VAS-32	water	80	90	01/09/2018	10:15	X				X	X	X			X	
GW-38443-010918-KVM-030	VAS-32	water	90	100	01/09/2018	11:45	X				X	X	X			X	MS/MSD
TestAmerica SDG No:240-90252-1																	
TRIP BLANK-011018-KVM	Trip Blank	water	--	--	01/10/2018	08:00	X				X						Trip Blank
GW-38443-011018-KVM-031	VAS-33	water	25	30	01/10/2018	09:05	X	X	X	X	X	X	X		X	X	MS/MSD
GW-38443-011018-KVM-032	VAS-33	water	30	35	01/10/2018	10:05	X				X	X	X			X	
GW-38443-011018-KVM-033	VAS-33	water	30	35	01/10/2018	10:35	X				X	X	X			X	FD(GW-38443-011018-KVM-032)
GW-38443-011018-KVM-034	VAS-33	water	35	40	01/10/2018	13:25	X				X	X	X			X	
GW-38443-011018-KVM-035	VAS-33	water	40	45	01/10/2018	15:05	X				X	X	X			X	
TestAmerica SDG No:240-90330-1																	
TRIP BLANK-011118-KVM	Trip Blank	water	--	--	01/11/2018	08:00	X				X						Trip Blank
GW-38443-011118-KVM-036	VAS-33	water	45	50	01/11/2018	08:45	X	X	X	X	X	X	X		X	X	MS/MSD
GW-38443-011118-KVM-037	VAS-33	water	50	60	01/11/2018	10:50	X				X	X	X			X	
GW-38443-011118-KVM-038	VAS-33	water	60	70	01/11/2018	13:20	X				X	X	X			X	

Table 1

Sample Collection and Analysis Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

							Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Initial Sample Depth (ft. bgs.)**	**Final Sample Depth (ft. bgs.)**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Total Metals & Mercury**	**Cyanide**	**Anions**	**Comments**
TestAmerica SDG No:240-90445-1																	
TRIP BLANK-011618-KVM	Trip Blank	water	--	--	01/16/2018	08:00	X				X						Trip Blank
GW-38443-011618-KVM-039	VAS-33	water	70	80	01/16/2018	10:00	X				X	X	X			X	MS/MSD
GW-38443-011618-KVM-040	VAS-33	water	70	80	01/16/2018	10:35	X				X	X	X			X	FD(GW-38443-011618-KVM-039)
GW-38443-011618-KVM-041	VAS-33	water	80	90	01/16/2018	14:05	X				X	X	X			X	
TestAmerica SDG No:240-90499-1																	
TRIPBLANK-011718-KVM	Trip Blank	water	--	--	01/17/2018	08:00	X				X						Trip Blank
GW-38443-011718-KVM-042	VAS-33	water	90	100	01/17/2018	13:00	X				X	X	X			X	
GW-38443-011718-KVM-EB	Equipment Blank	water	--	--	01/17/2018	13:15	X				X			X		X	Equipment blank
GW-38443-011718-KVM-FB2	Field Blank	water	--	--	01/17/2018	14:45	X				X			X		X	Field blank

Notes:

- - Not applicable
FD - Field Duplicate sample of sample in parentheses
MS/MSD - Matrix Spike/Matrix Spike Duplicate
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**
Sample ID:		**GW-38443-010818-KMV-023**	**GW-38443-010818-KMV-024**	**GW-38443-010818-KMV-025**	**GW-38443-010818-KMV-026**	**GW-38443-010818-KMV-027**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.23 U	2.3 U	7.7 U	1.2 U	0.34 J
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	3.2 U	11 U	1.6 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	3.4 U	11 U	1.7 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	2.5 U	8.3 U	1.3 U	0.65 J
1,1-Dichloroethene	µg/L	0.27 U	2.7 U	9.0 U	1.4 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	2.7 U	9.0 UJ	1.4 UJ	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	2.6 U	8.7 U	1.3 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	3.0 U	10 U	1.5 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	3.0 U	10 U	1.5 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	3.2 U	11 U	1.6 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	2.3 U	7.7 U	1.2 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	10 U	34 UJ	5.1 UJ	1.0 UJ
2-Hexanone	µg/L	1.2 U	12 U	41 U	6.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	7.1 U	24 U	3.6 U	0.71 U
Acetone	µg/L	1.8 U	18 U	100 U	8.8 U	2.7 U
Benzene	µg/L	0.63 J	2.8 U	9.3 U	1.4 U	0.28 J
Bromodichloromethane	µg/L	0.30 U	3.0 U	10 U	1.5 U	0.30 U
Bromoform	µg/L	0.43 U	4.3 U	14 U	2.2 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	4.2 U	14 U	2.1 U	0.42 U
Carbon disulfide	µg/L	0.34 U	3.4 U	11 U	1.7 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	3.5 U	12 UJ	1.8 UJ	0.35 UJ
Chlorobenzene	µg/L	1.3 J	3.2 U	11 U	1.6 U	0.32 U
Chloroethane	µg/L	0.41 U	4.1 U	14 U	2.1 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	3.1 U	10 U	1.6 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	4.3 U	14 U	2.2 U	0.43 U
cis-1,2-Dichloroethene	µg/L	21 J	58 J	83	84	19
cis-1,3-Dichloropropene	µg/L	0.26 U	2.6 U	8.7 U	1.3 U	0.26 U
Cyclohexane	µg/L	0.44 U	4.4 U	15 U	2.2 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	2.5 U	8.3 U	1.3 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	5.0 U	17 UJ	2.5 UJ	0.50 UJ
Ethylbenzene	µg/L	0.35 J	2.6 U	8.7 U	1.3 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	2.1 U	7.0 U	1.1 U	0.21 U
m&p-Xylenes	µg/L	0.98 J	2.4 U	8.0 U	1.2 U	0.41 J
Methyl acetate	µg/L	1.4 U	14 U	48 U	7.2 U	1.4 U
Methyl cyclohexane	µg/L	0.71 J	4.5 U	15 U	2.3 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	2.7 U	9.0 U	1.4 U	0.27 U

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**
Sample ID:		**GW-38443-010818-KMV-023**	**GW-38443-010818-KMV-024**	**GW-38443-010818-KMV-025**	**GW-38443-010818-KMV-026**	**GW-38443-010818-KMV-027**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Units**					
Volatile Organic Compounds						
Methylene chloride	µg/L	0.53 U	15 J	18 U	2.7 U	0.53 U
o-Xylene	µg/L	0.38 J	2.8 U	9.3 U	1.4 U	0.28 U
Styrene	µg/L	0.23 U	2.3 U	7.7 U	1.2 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	3.0 U	10 U	1.5 U	0.30 U
Toluene	µg/L	0.65 J	2.3 U	7.7 U	1.2 U	0.61 J
trans-1,2-Dichloroethene	µg/L	0.29 U	2.9 U	9.7 U	4.3 J	1.1
trans-1,3-Dichloropropene	µg/L	0.31 U	3.1 U	10 U	1.6 U	0.31 U
Trichloroethene	µg/L	0.33 U	3.3 U	11 U	1.7 U	5.8
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	5.0 U	17 UJ	2.5 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	4.1 U	14 U	2.1 U	0.41 U
Vinyl chloride	µg/L	4.0 J	75 J	400	11	10
Xylenes (total)	µg/L	1.4 J	2.4 U	8.0 U	1.2 U	0.41 J
Semi-Volatile Organic Compounds						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.38 U	-	-	0.39 U	-
2,4,5-Trichlorophenol	µg/L	0.29 U	-	-	0.29 U	-
2,4,6-Trichlorophenol	µg/L	0.23 U	-	-	0.24 U	-
2,4-Dichlorophenol	µg/L	0.18 U	-	-	0.19 U	-
2,4-Dimethylphenol	µg/L	0.24 U	-	-	0.25 U	-
2,4-Dinitrophenol	µg/L	0.31 U	-	-	0.31 U	-
2,4-Dinitrotoluene	µg/L	0.24 U	-	-	0.25 U	-
2,6-Dinitrotoluene	µg/L	0.77 U	-	-	0.78 U	-
2-Chloronaphthalene	µg/L	0.096 U	-	-	0.098 U	-
2-Chlorophenol	µg/L	0.28 U	-	-	0.28 U	-
2-Methylnaphthalene	µg/L	0.13 J	-	-	1.2	-
2-Methylphenol	µg/L	0.16 U	-	-	0.17 U	-
2-Nitroaniline	µg/L	0.20 U	-	-	0.21 U	-
2-Nitrophenol	µg/L	0.27 U	-	-	0.27 U	-
3&4-Methylphenol	µg/L	0.77 U	-	-	0.78 U	-
3,3'-Dichlorobenzidine	µg/L	0.36 U	-	-	0.36 U	-
3-Nitroaniline	µg/L	0.27 U	-	-	0.27 U	-
4,6-Dinitro-2-methylphenol	µg/L	2.3 U	-	-	2.4 U	-
4-Bromophenyl phenyl ether	µg/L	0.21 U	-	-	0.22 U	-
4-Chloro-3-methylphenol	µg/L	0.20 U	-	-	0.21 U	-
4-Chloroaniline	µg/L	0.20 U	-	-	0.21 U	-
4-Chlorophenyl phenyl ether	µg/L	0.29 U	-	-	0.29 U	-
4-Nitroaniline	µg/L	0.21 U	-	-	0.22 U	-
4-Nitrophenol	µg/L	0.28 U	-	-	0.28 U	-

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		VAS-32	VAS-32	VAS-32	VAS-32	VAS-32
Sample ID:		GW-38443-010818-KMV-023	GW-38443-010818-KMV-024	GW-38443-010818-KMV-025	GW-38443-010818-KMV-026	GW-38443-010818-KMV-027
Sample Date:		1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	60-70 ft BGS
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Acenaphthene	µg/L	0.043 U	-	-	0.043 U	-
Acenaphthylene	µg/L	0.046 U	-	-	0.047 U	-
Acetophenone	µg/L	0.33 U	-	-	0.33 U	-
Anthracene	µg/L	0.085 U	-	-	0.086 U	-
Atrazine	µg/L	0.33 U	-	-	0.33 U	-
Benzaldehyde	µg/L	0.37 U	-	-	0.38 U	-
Benzo(a)anthracene	µg/L	0.028 U	-	-	0.029 U	-
Benzo(a)pyrene	µg/L	0.049 U	-	-	0.050 U	-
Benzo(b)fluoranthene	µg/L	0.038 U	-	-	0.039 U	-
Benzo(g,h,i)perylene	µg/L	0.045 U	-	-	0.045 U	-
Benzo(k)fluoranthene	µg/L	0.043 U	-	-	0.044 U	-
Biphenyl (1,1-Biphenyl)	µg/L	0.13 U	-	-	0.13 U	-
bis(2-Chloroethoxy)methane	µg/L	0.31 U	-	-	0.31 U	-
bis(2-Chloroethyl)ether	µg/L	0.096 U	-	-	0.098 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.6 U	-	-	3.0 J	-
Butyl benzylphthalate (BBP)	µg/L	0.25 U	-	-	0.25 U	-
Caprolactam	µg/L	0.19 U	-	-	0.20 U	-
Carbazole	µg/L	0.27 U	-	-	0.27 U	-
Chrysene	µg/L	0.048 U	-	-	0.049 U	-
Dibenz(a,h)anthracene	µg/L	0.043 U	-	-	0.044 U	-
Dibenzofuran	µg/L	0.019 U	-	-	0.020 U	-
Diethyl phthalate	µg/L	0.58 U	-	-	0.59 U	-
Dimethyl phthalate	µg/L	0.28 U	-	-	0.28 U	-
Di-n-butylphthalate (DBP)	µg/L	1.6 U	-	-	1.7 U	-
Di-n-octyl phthalate (DnOP)	µg/L	0.22 U	-	-	0.23 U	-
Fluoranthene	µg/L	0.043 U	-	-	0.044 U	-
Fluorene	µg/L	0.039 U	-	-	0.040 U	-
Hexachlorobenzene	µg/L	0.082 U	-	-	0.084 U	-
Hexachlorobutadiene	µg/L	0.26 U	-	-	0.26 U	-
Hexachlorocyclopentadiene	µg/L	0.23 U	-	-	0.24 U	-
Hexachloroethane	µg/L	0.18 U	-	-	0.19 U	-
Indeno(1,2,3-cd)pyrene	µg/L	0.042 U	-	-	0.042 U	-
Isophorone	µg/L	0.26 U	-	-	0.26 U	-
Naphthalene	µg/L	0.060 U	-	-	0.061 U	-
Nitrobenzene	µg/L	0.038 U	-	-	0.039 U	-
N-Nitrosodi-n-propylamine	µg/L	0.23 U	-	-	0.24 U	-
N-Nitrosodiphenylamine	µg/L	0.30 U	-	-	0.30 U	-
Pentachlorophenol	µg/L	0.26 U	-	-	0.26 U	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-32	VAS-32	VAS-32	VAS-32	VAS-32
	Sample ID:	GW-38443-010818-KMV-023	GW-38443-010818-KMV-024	GW-38443-010818-KMV-025	GW-38443-010818-KMV-026	GW-38443-010818-KMV-027
	Sample Date:	1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018
	Sample Depth:	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	60-70 ft BGS
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Phenanthrene	µg/L	0.060 U	-	-	0.14 J	-
Phenol	µg/L	0.58 U	-	-	0.59 U	-
Pyrene	µg/L	0.040 U	-	-	0.041 U	-
Metals						
Aluminum	µg/L	14000	250	17000	62000	42000
Aluminum (dissolved)	µg/L	1100	34 U	450	8700	7700
Antimony	µg/L	2.4	0.57 U	1.4 J	3.8	2.6
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.88 J	0.77 J
Arsenic	µg/L	56	1.2 J	94	330	220
Arsenic (dissolved)	µg/L	25	0.75 U	2.8 J	43	38
Barium	µg/L	1700	310	1100	3000	2200
Barium (dissolved)	µg/L	860	310	410	670	700
Beryllium	µg/L	1.6	0.31 U	1.2	4.1	2.9
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.60 J	0.52 J
Cadmium	µg/L	2.5	0.21 U	1.3	4.1	3.1
Cadmium (dissolved)	µg/L	0.22 J	0.21 U	0.21 U	0.49 J	0.41 J
Calcium	µg/L	420000	120000	410000	1400000	1000000
Calcium (dissolved)	µg/L	140000	110000	120000	260000	230000
Chromium	µg/L	86	10	74	190	130
Chromium (dissolved)	µg/L	6.0	0.98 U	2.5	22	20
Cobalt	µg/L	21	1.1	17	71	46
Cobalt (dissolved)	µg/L	5.3	0.89 J	1.5	10	8.7
Copper	µg/L	68	2.4	68	260	180
Copper (dissolved)	µg/L	12	1.7 U	4.9	37	31
Iron	µg/L	41000	870	49000	250000	140000
Iron (dissolved)	µg/L	9000	82 J	1700	28000	25000
Lead	µg/L	78	0.83 J	42	170	120
Lead (dissolved)	µg/L	6.0	0.45 U	1.2	20	17
Magnesium	µg/L	170000	49000	160000	450000	310000
Magnesium (dissolved)	µg/L	53000	48000	47000	100000	91000
Manganese	µg/L	2000	710	1800	5700	5100
Manganese (dissolved)	µg/L	580	680	580	940	1200
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.30	0.24
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	80	7.9	67	220	140
Nickel (dissolved)	µg/L	11	2.6	4.3	28	26

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		VAS-32	VAS-32	VAS-32	VAS-32	VAS-32
Sample ID:		GW-38443-010818-KMV-023	GW-38443-010818-KMV-024	GW-38443-010818-KMV-025	GW-38443-010818-KMV-026	GW-38443-010818-KMV-027
Sample Date:		1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	60-70 ft BGS
Parameters	**Units**					
Metals						
Potassium	µg/L	14000	13000	15000	24000	22000
Potassium (dissolved)	µg/L	11000	13000	11000	11000	14000
Selenium	µg/L	2.5 J	0.89 U	1.9 J	7.5	4.9 J
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	1.1 J	0.89 U
Silver	µg/L	0.18 J	0.053 U	0.16 J	0.62 J	0.40 J
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.066 J	0.072 J
Sodium	µg/L	69000	89000	68000	87000	100000
Sodium (dissolved)	µg/L	71000	89000	70000	85000	100000
Thallium	µg/L	1.2	0.20 U	0.99 J	3.4	2.2
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.42 J	0.37 J
Vanadium	µg/L	41	0.82 U	41	160	100
Vanadium (dissolved)	µg/L	3.4 J	0.82 U	0.92 J	20	18
Zinc	µg/L	1100	660 J	950	2300	2600
Zinc (dissolved)	µg/L	390	1000 J	480	520	870
PCBs						
Aroclor-1016 (PCB-1016)	µg/L	0.051 U	-	-	0.050 U	-
Aroclor-1221 (PCB-1221)	µg/L	0.092 U	-	-	0.090 U	-
Aroclor-1232 (PCB-1232)	µg/L	0.071 U	-	-	0.070 U	-
Aroclor-1242 (PCB-1242)	µg/L	0.061 U	-	-	0.060 U	-
Aroclor-1248 (PCB-1248)	µg/L	0.051 U	-	-	0.050 U	-
Aroclor-1254 (PCB-1254)	µg/L	0.031 U	-	-	0.030 U	-
Aroclor-1260 (PCB-1260)	µg/L	0.041 U	-	-	0.040 U	-
Pesticides						
4,4'-DDD	µg/L	0.018 U	-	-	0.018 U	-
4,4'-DDE	µg/L	0.012 U	-	-	0.012 U	-
4,4'-DDT	µg/L	0.017 U	-	-	0.017 U	-
Aldrin	µg/L	0.013 U	-	-	0.013 U	-
alpha-BHC	µg/L	0.014 U	-	-	0.014 U	-
alpha-Chlordane	µg/L	0.012 U	-	-	0.012 U	-
beta-BHC	µg/L	0.018 U	-	-	0.018 U	-
delta-BHC	µg/L	0.029 U	-	-	0.030 U	-
Dieldrin	µg/L	0.013 U	-	-	0.013 U	-
Endosulfan I	µg/L	0.016 U	-	-	0.032 J	-
Endosulfan II	µg/L	0.015 U	-	-	0.015 U	-
Endosulfan sulfate	µg/L	0.015 U	-	-	0.015 U	-
Endrin	µg/L	0.013 U	-	-	0.013 U	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**
Sample ID:		**GW-38443-010818-KMV-023**	**GW-38443-010818-KMV-024**	**GW-38443-010818-KMV-025**	**GW-38443-010818-KMV-026**	**GW-38443-010818-KMV-027**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Units**					
Pesticides						
Endrin aldehyde	µg/L	0.018 U	-	-	0.018 U	-
Endrin ketone	µg/L	0.016 U	-	-	0.016 U	-
gamma-BHC (lindane)	µg/L	0.013 U	-	-	0.013 U	-
gamma-Chlordane	µg/L	0.013 U	-	-	0.013 U	-
Heptachlor	µg/L	0.014 U	-	-	0.014 U	-
Heptachlor epoxide	µg/L	0.015 U	-	-	0.015 U	-
Methoxychlor	µg/L	0.013 U	-	-	0.013 U	-
Toxaphene	µg/L	0.20 U	-	-	0.20 U	-
General Chemistry						
Chloride	µg/L	110000	120000	95000	130000	180000
Cyanide (total)	mg/L	0.0074 J	-	-	0.0078 J	-
Nitrate (as N)	µg/L	70 U	70 U	70 U	70 U	70 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	38000	34000	31000	35000	50000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-010918-KVM-028**	**GW-38443-010918-KVM-029**	**GW-38443-010918-KVM-030**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**
Sample Date:		**1/9/2018**	**1/9/2018**	**1/9/2018**	**1/10/2018**	**1/10/2018**
Sample Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Parameters	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.60 J	0.67 J	0.45 J	0.25 U	0.30 J
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 U	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.78 J	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.45 J	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.30 J
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 UJ	0.35 UJ	0.35 UJ	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	2.4	0.76 J
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	2.8	2.0	4.8	3.2	8.6
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-010918-KVM-028**	**GW-38443-010918-KVM-029**	**GW-38443-010918-KVM-030**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**
Sample Date:		**1/9/2018**	**1/9/2018**	**1/9/2018**	**1/10/2018**	**1/10/2018**
Sample Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Parameters	**Units**					
Volatile Organic Compounds						
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.26 J	0.27 J	0.23 U	0.23 J
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	5.2	6.9	4.5	0.33 U	0.48 J
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	2.0	0.63 J	0.45 U	1.6	14
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Semi-Volatile Organic Compounds						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	0.40 U	-
2,4,5-Trichlorophenol	µg/L	-	-	-	0.30 U	-
2,4,6-Trichlorophenol	µg/L	-	-	-	0.24 U	-
2,4-Dichlorophenol	µg/L	-	-	-	0.19 U	-
2,4-Dimethylphenol	µg/L	-	-	-	0.25 U	-
2,4-Dinitrophenol	µg/L	-	-	-	0.32 U	-
2,4-Dinitrotoluene	µg/L	-	-	-	0.25 U	-
2,6-Dinitrotoluene	µg/L	-	-	-	0.80 U	-
2-Chloronaphthalene	µg/L	-	-	-	0.10 U	-
2-Chlorophenol	µg/L	-	-	-	0.29 U	-
2-Methylnaphthalene	µg/L	-	-	-	0.13 J	-
2-Methylphenol	µg/L	-	-	-	0.17 U	-
2-Nitroaniline	µg/L	-	-	-	0.21 U	-
2-Nitrophenol	µg/L	-	-	-	0.28 U	-
3&4-Methylphenol	µg/L	-	-	-	0.80 U	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	0.37 U	-
3-Nitroaniline	µg/L	-	-	-	0.28 U	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	2.4 U	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	0.22 U	-
4-Chloro-3-methylphenol	µg/L	-	-	-	0.21 U	-
4-Chloroaniline	µg/L	-	-	-	0.21 U	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	0.30 U	-
4-Nitroaniline	µg/L	-	-	-	0.22 U	-
4-Nitrophenol	µg/L	-	-	-	0.29 U	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33
	Sample ID:	GW-38443-010918-KVM-028	GW-38443-010918-KVM-029	GW-38443-010918-KVM-030	GW-38443-011018-KVM-031	GW-38443-011018-KVM-032
	Sample Date:	1/9/2018	1/9/2018	1/9/2018	1/10/2018	1/10/2018
	Sample Depth:	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	25-30 ft BGS	30-35 ft BGS
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Acenaphthene	µg/L	-	-	-	0.044 U	-
Acenaphthylene	µg/L	-	-	-	0.048 U	-
Acetophenone	µg/L	-	-	-	0.34 U	-
Anthracene	µg/L	-	-	-	0.088 U	-
Atrazine	µg/L	-	-	-	0.34 U	-
Benzaldehyde	µg/L	-	-	-	0.39 U	-
Benzo(a)anthracene	µg/L	-	-	-	0.030 U	-
Benzo(a)pyrene	µg/L	-	-	-	0.051 U	-
Benzo(b)fluoranthene	µg/L	-	-	-	0.039 UJ	-
Benzo(g,h,i)perylene	µg/L	-	-	-	0.046 U	-
Benzo(k)fluoranthene	µg/L	-	-	-	0.045 UJ	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	0.13 U	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	0.32 U	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	0.10 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	1.7 U	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	0.26 U	-
Caprolactam	µg/L	-	-	-	0.20 U	-
Carbazole	µg/L	-	-	-	0.28 U	-
Chrysene	µg/L	-	-	-	0.050 U	-
Dibenz(a,h)anthracene	µg/L	-	-	-	0.045 U	-
Dibenzofuran	µg/L	-	-	-	0.020 U	-
Diethyl phthalate	µg/L	-	-	-	0.60 U	-
Dimethyl phthalate	µg/L	-	-	-	0.29 U	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	1.7 U	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	0.23 UJ	-
Fluoranthene	µg/L	-	-	-	0.045 U	-
Fluorene	µg/L	-	-	-	0.041 U	-
Hexachlorobenzene	µg/L	-	-	-	0.085 U	-
Hexachlorobutadiene	µg/L	-	-	-	0.27 U	-
Hexachlorocyclopentadiene	µg/L	-	-	-	0.24 U	-
Hexachloroethane	µg/L	-	-	-	0.19 U	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	0.043 U	-
Isophorone	µg/L	-	-	-	0.27 U	-
Naphthalene	µg/L	-	-	-	0.063 U	-
Nitrobenzene	µg/L	-	-	-	0.040 U	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	0.24 U	-
N-Nitrosodiphenylamine	µg/L	-	-	-	0.31 U	-
Pentachlorophenol	µg/L	-	-	-	0.27 U	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**
	Sample ID:	**GW-38443-010918-KVM-028**	**GW-38443-010918-KVM-029**	**GW-38443-010918-KVM-030**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**
	Sample Date:	**1/9/2018**	**1/9/2018**	**1/9/2018**	**1/10/2018**	**1/10/2018**
	Sample Depth:	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Phenanthrene	µg/L	-	-	-	0.062 U	-
Phenol	µg/L	-	-	-	0.60 U	-
Pyrene	µg/L	-	-	-	0.042 U	-
Metals						
Aluminum	µg/L	5800	120000	24000	420	46000 J
Aluminum (dissolved)	µg/L	34 U	10000	7200	34 U	1400 J
Antimony	µg/L	6.0	2.2	0.95 U	0.57 U	10 J
Antimony (dissolved)	µg/L	0.79 U	0.79 U	0.57 U	3.3	0.57 U
Arsenic	µg/L	7.0	110	20	120	820 J
Arsenic (dissolved)	µg/L	0.75 U	8.5	6.9	110	26 J
Barium	µg/L	320	1600	530	1100	3600 J
Barium (dissolved)	µg/L	270	340	370	1100	340
Beryllium	µg/L	0.48 J	5.4	1.1	0.31 U	4.3 J
Beryllium (dissolved)	µg/L	0.31 U	0.46 J	0.32 J	0.31 U	0.31 U
Cadmium	µg/L	0.30 J	4.1	0.83 J	0.21 U	2.3 J
Cadmium (dissolved)	µg/L	0.21 U	0.30 J	0.21 U	0.21 U	0.21 U
Calcium	µg/L	260000	1800000	440000	160000	1200000 J
Calcium (dissolved)	µg/L	140000	220000	200000	160000	160000
Chromium	µg/L	93	300	130	2.3	240 J
Chromium (dissolved)	µg/L	0.98 U	25	24	0.98 U	13
Cobalt	µg/L	7.4	100	21	1.9	72 J
Cobalt (dissolved)	µg/L	0.91 J	8.1	5.4	1.4	3.6 J
Copper	µg/L	17	370	87	3.9	330 J
Copper (dissolved)	µg/L	1.7 U	27	19	1.9 J	13 J
Iron	µg/L	16000	300000	56000	12000	390000 J
Iron (dissolved)	µg/L	3700	22000	17000	8300	14000 J
Lead	µg/L	8.7	220	39	3.1	310 J
Lead (dissolved)	µg/L	0.45 U	14	9.1	0.45 U	8.9 J
Magnesium	µg/L	94000	440000	140000	49000	410000 J
Magnesium (dissolved)	µg/L	49000	77000	67000	50000	57000
Manganese	µg/L	1100	7500	2000	350	5600 J
Manganese (dissolved)	µg/L	660	1100	880	310	370
Mercury	µg/L	0.13 U	0.22	0.13 U	0.13 U	0.24
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	50	310	84	3.2	260 J
Nickel (dissolved)	µg/L	3.6	23	18	1.5 U	11 J

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33
	Sample ID:	GW-38443-010918-KVM-028	GW-38443-010918-KVM-029	GW-38443-010918-KVM-030	GW-38443-011018-KVM-031	GW-38443-011018-KVM-032
	Sample Date:	1/9/2018	1/9/2018	1/9/2018	1/10/2018	1/10/2018
	Sample Depth:	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	25-30 ft BGS	30-35 ft BGS
Parameters	**Units**					
Metals						
Potassium	µg/L	9200	33000	11000	11000	20000
Potassium (dissolved)	µg/L	7900	10000	8100	11000	9400
Selenium	µg/L	1.2 J	14	2.4 J	0.89 U	11
Selenium (dissolved)	µg/L	0.89 U	1.2 J	0.89 U	1.2 J	0.89 U
Silver	µg/L	0.053 U	0.65 J	0.13 J	0.053 U	0.77 J
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	96000	110000	110000	50000	88000
Sodium (dissolved)	µg/L	95000	110000	110000	52000	87000
Thallium	µg/L	0.33 J	3.0	0.65 J	0.20 U	1.7
Thallium (dissolved)	µg/L	0.20 U	0.30 J	0.20 J	0.20 U	0.20 U
Vanadium	µg/L	12	260	51	1.5 J	150 J
Vanadium (dissolved)	µg/L	0.82 U	21	15	0.82 U	4.9 J
Zinc	µg/L	1500	2300	1300	870	5500 J
Zinc (dissolved)	µg/L	1100	560	830	720	730
PCBs						
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	0.050 UJ	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	0.090 UJ	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	0.070 UJ	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	0.060 UJ	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	0.050 UJ	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	0.030 UJ	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	0.040 UJ	-
Pesticides						
4,4'-DDD	µg/L	-	-	-	0.018 U	-
4,4'-DDE	µg/L	-	-	-	0.012 U	-
4,4'-DDT	µg/L	-	-	-	0.017 U	-
Aldrin	µg/L	-	-	-	0.013 U	-
alpha-BHC	µg/L	-	-	-	0.014 U	-
alpha-Chlordane	µg/L	-	-	-	0.012 U	-
beta-BHC	µg/L	-	-	-	0.018 U	-
delta-BHC	µg/L	-	-	-	0.029 U	-
Dieldrin	µg/L	-	-	-	0.013 U	-
Endosulfan I	µg/L	-	-	-	0.016 U	-
Endosulfan II	µg/L	-	-	-	0.015 U	-
Endosulfan sulfate	µg/L	-	-	-	0.015 U	-
Endrin	µg/L	-	-	-	0.013 U	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-010918-KVM-028**	**GW-38443-010918-KVM-029**	**GW-38443-010918-KVM-030**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**
Sample Date:		**1/9/2018**	**1/9/2018**	**1/9/2018**	**1/10/2018**	**1/10/2018**
Sample Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Parameters	**Units**					
Pesticides						
Endrin aldehyde	µg/L	-	-	-	0.018 U	-
Endrin ketone	µg/L	-	-	-	0.016 U	-
gamma-BHC (lindane)	µg/L	-	-	-	0.013 U	-
gamma-Chlordane	µg/L	-	-	-	0.013 U	-
Heptachlor	µg/L	-	-	-	0.014 U	-
Heptachlor epoxide	µg/L	-	-	-	0.015 U	-
Methoxychlor	µg/L	-	-	-	0.013 U	-
Toxaphene	µg/L	-	-	-	0.19 U	-
General Chemistry						
Chloride	µg/L	170000	190000	190000	72000	180000
Cyanide (total)	mg/L	-	-	-	0.15	-
Nitrate (as N)	µg/L	47 J	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	33000	44000	49000	7100	49000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
PCBs - Polychlorinated Biphenyls

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		VAS-33	VAS-33	VAS-33	VAS-33	VAS-33
Sample ID:		GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037
Sample Date:		1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018
Sample Depth:		30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
		Duplicate				
Parameters	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.46 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.49 U
1,1-Dichloroethane	µg/L	0.30 J	0.25 U	0.25 U	0.28 J	0.36 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.39 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.39 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.46 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.5 UJ
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.8 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U	1.0 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	2.5 U
Benzene	µg/L	0.32 J	0.28 U	0.28 U	0.28 U	0.40 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.60 U
Carbon disulfide	µg/L	0.34 U	0.38 J	0.34 U	0.34 U	0.49 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U	0.50 U
Chlorobenzene	µg/L	0.77 J	0.32 U	0.32 U	0.32 U	0.46 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.59 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.44 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U
cis-1,2-Dichloroethene	µg/L	8.8	8.6	11	12	45
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.63 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.72 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U	2.0 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.64 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.39 U

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011018-KVM-033**	**GW-38443-011018-KVM-034**	**GW-38443-011018-KVM-035**	**GW-38443-011118-KVM-036**	**GW-38443-011118-KVM-037**
Sample Date:		**1/10/2018**	**1/10/2018**	**1/10/2018**	**1/11/2018**	**1/11/2018**
Sample Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
		Duplicate				
Parameters	**Units**					
Volatile Organic Compounds						
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U	0.76 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.40 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U
Toluene	µg/L	0.25 J	0.23 U	0.23 U	0.23 U	0.33 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U	0.41 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.44 U
Trichloroethene	µg/L	0.46 J	0.33 U	0.38 J	0.33 U	0.47 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.72 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.59 U
Vinyl chloride	µg/L	15	9.5	4.5	6.3	6.8
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U
Semi-Volatile Organic Compounds						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	0.40 U	-
2,4,5-Trichlorophenol	µg/L	-	-	-	0.30 U	-
2,4,6-Trichlorophenol	µg/L	-	-	-	0.24 U	-
2,4-Dichlorophenol	µg/L	-	-	-	0.19 U	-
2,4-Dimethylphenol	µg/L	-	-	-	0.25 U	-
2,4-Dinitrophenol	µg/L	-	-	-	0.32 U	-
2,4-Dinitrotoluene	µg/L	-	-	-	0.25 U	-
2,6-Dinitrotoluene	µg/L	-	-	-	0.80 U	-
2-Chloronaphthalene	µg/L	-	-	-	0.10 U	-
2-Chlorophenol	µg/L	-	-	-	0.29 U	-
2-Methylnaphthalene	µg/L	-	-	-	0.15 J	-
2-Methylphenol	µg/L	-	-	-	0.17 U	-
2-Nitroaniline	µg/L	-	-	-	0.21 U	-
2-Nitrophenol	µg/L	-	-	-	0.28 U	-
3&4-Methylphenol	µg/L	-	-	-	0.80 U	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	0.37 U	-
3-Nitroaniline	µg/L	-	-	-	0.28 U	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	2.4 U	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	0.22 U	-
4-Chloro-3-methylphenol	µg/L	-	-	-	0.21 U	-
4-Chloroaniline	µg/L	-	-	-	0.21 U	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	0.30 U	-
4-Nitroaniline	µg/L	-	-	-	0.22 U	-
4-Nitrophenol	µg/L	-	-	-	0.29 U	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33
	Sample ID:	GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037
	Sample Date:	1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018
	Sample Depth:	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
		Duplicate				
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Acenaphthene	µg/L	-	-	-	0.044 U	-
Acenaphthylene	µg/L	-	-	-	0.048 U	-
Acetophenone	µg/L	-	-	-	0.34 U	-
Anthracene	µg/L	-	-	-	0.088 U	-
Atrazine	µg/L	-	-	-	0.34 U	-
Benzaldehyde	µg/L	-	-	-	0.39 U	-
Benzo(a)anthracene	µg/L	-	-	-	0.030 U	-
Benzo(a)pyrene	µg/L	-	-	-	0.051 U	-
Benzo(b)fluoranthene	µg/L	-	-	-	0.039 U	-
Benzo(g,h,i)perylene	µg/L	-	-	-	0.046 U	-
Benzo(k)fluoranthene	µg/L	-	-	-	0.045 U	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	0.13 U	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	0.32 U	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	0.10 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	1.7 U	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	0.26 U	-
Caprolactam	µg/L	-	-	-	0.20 U	-
Carbazole	µg/L	-	-	-	0.28 U	-
Chrysene	µg/L	-	-	-	0.050 U	-
Dibenz(a,h)anthracene	µg/L	-	-	-	0.045 U	-
Dibenzofuran	µg/L	-	-	-	0.020 U	-
Diethyl phthalate	µg/L	-	-	-	0.60 U	-
Dimethyl phthalate	µg/L	-	-	-	0.29 U	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	1.7 U	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	0.23 U	-
Fluoranthene	µg/L	-	-	-	0.045 U	-
Fluorene	µg/L	-	-	-	0.041 U	-
Hexachlorobenzene	µg/L	-	-	-	0.085 U	-
Hexachlorobutadiene	µg/L	-	-	-	0.27 U	-
Hexachlorocyclopentadiene	µg/L	-	-	-	0.24 U	-
Hexachloroethane	µg/L	-	-	-	0.19 U	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	0.043 U	-
Isophorone	µg/L	-	-	-	0.27 U	-
Naphthalene	µg/L	-	-	-	0.063 U	-
Nitrobenzene	µg/L	-	-	-	0.040 U	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	0.24 U	-
N-Nitrosodiphenylamine	µg/L	-	-	-	0.31 U	-
Pentachlorophenol	µg/L	-	-	-	0.27 U	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011018-KVM-033**	**GW-38443-011018-KVM-034**	**GW-38443-011018-KVM-035**	**GW-38443-011118-KVM-036**	**GW-38443-011118-KVM-037**
Sample Date:		**1/10/2018**	**1/10/2018**	**1/10/2018**	**1/11/2018**	**1/11/2018**
Sample Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
		Duplicate				
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Phenanthrene	µg/L	-	-	-	0.062 U	-
Phenol	µg/L	-	-	-	0.60 U	-
Pyrene	µg/L	-	-	-	0.042 U	-
Metals						
Aluminum	µg/L	15000 J	41 J	40 J	54	34 U
Aluminum (dissolved)	µg/L	340 J	34 U	34 U	34 U	34 U
Antimony	µg/L	4.1 J	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	270 J	2.8 J	3.2 J	3.1 J	3.5 J
Arsenic (dissolved)	µg/L	6.7 J	2.3 J	3.0 J	3.0 J	3.3 J
Barium	µg/L	1200 J	150	110	110	110
Barium (dissolved)	µg/L	270	150	110	110	110
Beryllium	µg/L	1.4 J	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.95 J	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	500000 J	140000	130000	130000	130000
Calcium (dissolved)	µg/L	140000	140000	130000	130000	130000
Chromium	µg/L	190	1.4 J	4.5	2.7	0.98 U
Chromium (dissolved)	µg/L	3.9 J	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	26 J	1.0	0.58 J	0.39 J	0.19 U
Cobalt (dissolved)	µg/L	1.9 J	0.97 J	0.50 J	0.19 U	0.19 U
Copper	µg/L	110 J	1.7 U	4.4	5.8	3.1
Copper (dissolved)	µg/L	2.9 J	1.8 J	1.7 U	2.9	1.7 U
Iron	µg/L	130000 J	3200	1400	3200	2400
Iron (dissolved)	µg/L	5700 J	2700	1200	2500	2300
Lead	µg/L	100 J	0.76 J	0.50 J	0.82 J	0.45 U
Lead (dissolved)	µg/L	1.9 J	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	140000 J	46000	44000	45000	45000
Magnesium (dissolved)	µg/L	48000	45000	46000	44000	45000
Manganese	µg/L	2400 J	350	470	650	450
Manganese (dissolved)	µg/L	260	340	490	650	440
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	140 J	1.6 J	4.4	2.4	1.5 U
Nickel (dissolved)	µg/L	3.4 J	1.5 U	2.3	1.5 U	1.5 U

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33
	Sample ID:	GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037
	Sample Date:	1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018
	Sample Depth:	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
		Duplicate				
Parameters	**Units**					
Metals						
Potassium	µg/L	13000	8400	7700	7400	6700
Potassium (dissolved)	µg/L	9000	8200	8300	7400	6700
Selenium	µg/L	3.9 J	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.25 J	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	88000	90000	85000	81000	63000
Sodium (dissolved)	µg/L	85000	87000	91000	81000	61000
Thallium	µg/L	0.57 J	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	52 J	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	1.5 J	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	2700 J	360	610	760	650
Zinc (dissolved)	µg/L	650	340	560	730	580
PCBs						
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	0.050 UJ	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	0.090 UJ	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	0.070 UJ	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	0.060 UJ	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	0.050 UJ	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	0.030 UJ	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	0.040 UJ	-
Pesticides						
4,4'-DDD	µg/L	-	-	-	0.019 U	-
4,4'-DDE	µg/L	-	-	-	0.013 U	-
4,4'-DDT	µg/L	-	-	-	0.018 U	-
Aldrin	µg/L	-	-	-	0.014 U	-
alpha-BHC	µg/L	-	-	-	0.015 U	-
alpha-Chlordane	µg/L	-	-	-	0.013 U	-
beta-BHC	µg/L	-	-	-	0.019 U	-
delta-BHC	µg/L	-	-	-	0.031 U	-
Dieldrin	µg/L	-	-	-	0.014 U	-
Endosulfan I	µg/L	-	-	-	0.017 U	-
Endosulfan II	µg/L	-	-	-	0.016 U	-
Endosulfan sulfate	µg/L	-	-	-	0.016 U	-
Endrin	µg/L	-	-	-	0.014 U	-

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33
	Sample ID:	GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037
	Sample Date:	1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018
	Sample Depth:	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
		Duplicate				
Parameters	**Units**					
Pesticides						
Endrin aldehyde	µg/L	-	-	-	0.019 U	-
Endrin ketone	µg/L	-	-	-	0.017 U	-
gamma-BHC (lindane)	µg/L	-	-	-	0.014 U	-
gamma-Chlordane	µg/L	-	-	-	0.014 U	-
Heptachlor	µg/L	-	-	-	0.015 U	-
Heptachlor epoxide	µg/L	-	-	-	0.016 U	-
Methoxychlor	µg/L	-	-	-	0.014 U	-
Toxaphene	µg/L	-	-	-	0.21 U	-
General Chemistry						
Chloride	µg/L	180000	180000	180000	180000	160000
Cyanide (total)	mg/L	-	-	-	0.0060 U	-
Nitrate (as N)	µg/L	14 U	20 J	29 J	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	49000	61000	79000	86000	87000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
PCBs - Polychlorinated Biphenyls

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33
	Sample ID:	GW-38443-011118-KVM-038	GW-38443-011618-KVM-039	GW-38443-011618-KVM-040	GW-38443-011618-KVM-041	GW-38443-011718-KVM-042
	Sample Date:	1/11/2018	1/16/2018	1/16/2018	1/16/2018	1/17/2018
	Sample Depth:	60-70 ft BGS	70-80 ft BGS	70-80 ft BGS Duplicate	80-90 ft BGS	90-100 ft BGS
Parameters	**Units**					
Volatile Organic Compounds						
1,1,1-Trichloroethane	µg/L	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U
1,1,2,2-Tetrachloroethane	µg/L	0.80 U	0.53 U	0.53 U	1.6 U	0.53 U
1,1,2-Trichloroethane	µg/L	0.85 U	0.57 U	0.57 U	1.7 U	0.57 U
1,1-Dichloroethane	µg/L	0.63 U	0.42 U	0.42 U	1.3 U	0.42 U
1,1-Dichloroethene	µg/L	0.68 U	0.45 U	0.45 U	1.4 U	0.45 U
1,2,4-Trichlorobenzene	µg/L	0.68 UJ	0.45 U	0.45 U	1.4 U	0.45 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.65 U	0.43 U	0.43 U	1.3 U	0.43 U
1,2-Dichloroethane	µg/L	0.75 U	0.50 U	0.50 U	1.5 U	0.50 U
1,2-Dichloropropane	µg/L	0.75 U	0.50 U	0.50 U	1.5 U	0.50 U
1,3-Dichlorobenzene	µg/L	0.80 U	0.53 U	0.53 U	1.6 U	0.53 U
1,4-Dichlorobenzene	µg/L	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2.6 UJ	1.7 U	1.7 U	5.1 U	1.7 U
2-Hexanone	µg/L	3.1 U	2.1 U	2.1 U	6.2 U	2.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1.8 U	1.2 U	1.2 U	3.6 U	1.9 J
Acetone	µg/L	4.4 U	2.9 U	2.9 U	8.8 U	2.9 U
Benzene	µg/L	0.70 U	0.52 J	0.47 U	1.4 U	0.47 U
Bromodichloromethane	µg/L	0.75 U	0.50 U	0.50 U	1.5 U	0.50 U
Bromoform	µg/L	1.1 U	0.72 U	0.72 U	2.2 U	0.72 U
Bromomethane (Methyl bromide)	µg/L	1.1 U	0.70 U	0.70 U	2.1 U	0.70 U
Carbon disulfide	µg/L	0.85 U	0.57 U	0.57 U	1.7 U	0.57 U
Carbon tetrachloride	µg/L	0.88 U	0.58 U	0.58 U	1.8 U	0.58 U
Chlorobenzene	µg/L	0.80 U	0.53 U	0.53 U	1.6 U	0.53 U
Chloroethane	µg/L	1.0 U	0.68 UJ	0.68 UJ	2.1 UJ	0.68 U
Chloroform (Trichloromethane)	µg/L	0.78 U	0.52 U	0.52 U	1.6 U	0.52 U
Chloromethane (Methyl chloride)	µg/L	1.1 U	0.72 U	0.72 U	2.2 U	0.72 U
cis-1,2-Dichloroethene	µg/L	9.4	29	26	36	39
cis-1,3-Dichloropropene	µg/L	0.65 U	0.43 U	0.43 U	1.3 U	0.43 U
Cyclohexane	µg/L	1.1 U	0.73 U	0.73 U	2.2 U	0.73 U
Dibromochloromethane	µg/L	0.63 U	0.42 U	0.42 U	1.3 U	0.42 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.3 UJ	0.84 U	0.84 U	2.5 U	0.84 U
Ethylbenzene	µg/L	0.65 U	0.43 U	0.43 U	1.3 U	0.43 U
Isopropyl benzene	µg/L	0.53 U	0.35 U	0.35 U	1.1 U	0.35 U
m&p-Xylenes	µg/L	0.60 U	0.40 U	0.40 U	1.2 U	0.40 U
Methyl acetate	µg/L	3.6 U	2.4 U	2.4 U	7.2 U	2.4 U
Methyl cyclohexane	µg/L	1.1 U	0.75 U	0.75 U	2.3 U	0.75 U
Methyl tert butyl ether (MTBE)	µg/L	0.68 U	0.45 U	0.45 U	1.4 U	0.45 U

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011118-KVM-038**	**GW-38443-011618-KVM-039**	**GW-38443-011618-KVM-040**	**GW-38443-011618-KVM-041**	**GW-38443-011718-KVM-042**
Sample Date:		**1/11/2018**	**1/16/2018**	**1/16/2018**	**1/16/2018**	**1/17/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
				Duplicate		
Parameters	**Units**					
Volatile Organic Compounds						
Methylene chloride	µg/L	1.3 U	4.1 U	4.1 U	12 U	2.4 U
o-Xylene	µg/L	0.70 U	0.47 U	0.47 U	1.4 U	0.47 U
Styrene	µg/L	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U
Tetrachloroethene	µg/L	0.75 U	0.50 U	0.50 U	1.5 U	0.50 U
Toluene	µg/L	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U
trans-1,2-Dichloroethene	µg/L	0.73 U	0.48 U	0.48 U	1.5 U	0.48 U
trans-1,3-Dichloropropene	µg/L	0.78 U	0.52 U	0.52 U	1.6 U	0.52 U
Trichloroethene	µg/L	0.83 U	0.55 U	0.55 U	1.7 U	0.55 U
Trichlorofluoromethane (CFC-11)	µg/L	1.3 UJ	0.84 UJ	0.84 UJ	2.5 UJ	0.84 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	0.68 U	0.68 U	2.1 U	0.68 U
Vinyl chloride	µg/L	29	50	44	44	49
Xylenes (total)	µg/L	0.60 U	0.40 U	0.40 U	1.2 U	0.40 U
Semi-Volatile Organic Compounds						
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33
	Sample ID:	GW-38443-011118-KVM-038	GW-38443-011618-KVM-039	GW-38443-011618-KVM-040	GW-38443-011618-KVM-041	GW-38443-011718-KVM-042
	Sample Date:	1/11/2018	1/16/2018	1/16/2018	1/16/2018	1/17/2018
	Sample Depth:	60-70 ft BGS	70-80 ft BGS	70-80 ft BGS Duplicate	80-90 ft BGS	90-100 ft BGS
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Acenaphthene	µg/L	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

	Sample Location:	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33
	Sample ID:	GW-38443-011118-KVM-038	GW-38443-011618-KVM-039	GW-38443-011618-KVM-040	GW-38443-011618-KVM-041	GW-38443-011718-KVM-042
	Sample Date:	1/11/2018	1/16/2018	1/16/2018	1/16/2018	1/17/2018
	Sample Depth:	60-70 ft BGS	70-80 ft BGS	70-80 ft BGS Duplicate	80-90 ft BGS	90-100 ft BGS
Parameters	**Units**					
Semi-Volatile Organic Compounds						
Phenanthrene	µg/L	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-
Metals						
Aluminum	µg/L	230	370	450	92	73 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U	4.9
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U	0.89 J
Arsenic	µg/L	4.9 J	5.3	5.2	4.4 J	4.3 U
Arsenic (dissolved)	µg/L	4.7 J	4.9 J	5.3	4.4 J	4.1 U
Barium	µg/L	120	110	110	110	90
Barium (dissolved)	µg/L	120	110	100	100	90
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.36 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.33 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	140000	130000	130000	120000	110000
Calcium (dissolved)	µg/L	130000	130000	130000	120000	110000
Chromium	µg/L	1.2 J	5.0	4.7	0.98 U	1.4 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.48 J	0.54 J	0.44 J	0.31 J	0.33 J
Cobalt (dissolved)	µg/L	0.35 J	0.25 J	0.24 J	0.25 J	0.22 J
Copper	µg/L	5.6	1.8 J	1.7 U	1.7 U	10 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	10 U
Iron	µg/L	3900	4600	4600	2100	3400
Iron (dissolved)	µg/L	3400	3800	3800	1900	3100
Lead	µg/L	0.45 U	0.60 J	0.51 J	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	48000	46000	46000	41000	41000 U
Magnesium (dissolved)	µg/L	45000	46000	46000	41000	40000 U
Manganese	µg/L	240	200	200	220	220
Manganese (dissolved)	µg/L	210	190	190	210	210
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.9 J	2.8	2.7	1.5 U	1.6 J
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011118-KVM-038**	**GW-38443-011618-KVM-039**	**GW-38443-011618-KVM-040**	**GW-38443-011618-KVM-041**	**GW-38443-011718-KVM-042**
Sample Date:		**1/11/2018**	**1/16/2018**	**1/16/2018**	**1/16/2018**	**1/17/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
				Duplicate		
Parameters	**Units**					
Metals						
Potassium	µg/L	6800	6000	6000	5900	6700 U
Potassium (dissolved)	µg/L	6600	6000	5900	5900	6700 U
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	74000	53000	53000	50000	48000 U
Sodium (dissolved)	µg/L	70000	53000	54000	50000	48000 U
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.98 J	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	380	550	580	340	330
Zinc (dissolved)	µg/L	360	370	400	310	240
PCBs						
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-
Pesticides						
4,4'-DDD	µg/L	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-

Table 2

Analytical Results Summary
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Sample Location:		**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011118-KVM-038**	**GW-38443-011618-KVM-039**	**GW-38443-011618-KVM-040**	**GW-38443-011618-KVM-041**	**GW-38443-011718-KVM-042**
Sample Date:		**1/11/2018**	**1/16/2018**	**1/16/2018**	**1/16/2018**	**1/17/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**70-80 ft BGS Duplicate**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Units**					
Pesticides						
Endrin aldehyde	µg/L	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-
General Chemistry						
Chloride	µg/L	160000	130000	130000	94000	83000 U
Cyanide (total)	mg/L	-	-	-	-	-
Nitrate (as N)	µg/L	15 J	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	81000	84000	83000	83000	81000 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
PCBs - Polychlorinated Biphenyls

Table 3

Analytical Methods
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Fumigants	SW-846 8011	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Water	7	40
Total & Dissolved Metals	SW-846 6020	Water	-	180
Total & Dissolved Mercury	SW-846 7470A	Water	-	28
Cyanide	SW-846 9012B	Water	-	14
Anions (Chloride, Sulfate, Nitrate, Nitrite)	EPA 300.0	Water	-	28 48 hours for Nitrate & Nitrite

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisic
\- - Not applicable

Table 4

Qualified Sample Results Due to Holding Time Exceedance
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
PCBs	GW-38443-011018-KVM-031	12 days to extraction	7 days to extraction	Aroclor-1016 (PCB-1016)	0.050 UJ	µg/L
	GW-38443-011018-KVM-031			Aroclor-1221 (PCB-1221)	0.090 UJ	µg/L
	GW-38443-011018-KVM-031			Aroclor-1232 (PCB-1232)	0.070 UJ	µg/L
	GW-38443-011018-KVM-031			Aroclor-1242 (PCB-1242)	0.060 UJ	µg/L
	GW-38443-011018-KVM-031			Aroclor-1248 (PCB-1248)	0.050 UJ	µg/L
	GW-38443-011018-KVM-031			Aroclor-1254 (PCB-1254)	0.030 UJ	µg/L
	GW-38443-011018-KVM-031			Aroclor-1260 (PCB-1260)	0.040 UJ	µg/L
PCBs	GW-38443-011118-KVM-036	11 days to extraction	7 days to extraction	Aroclor-1016 (PCB-1016)	0.050 UJ	µg/L
	GW-38443-011118-KVM-036			Aroclor-1221 (PCB-1221)	0.090 UJ	µg/L
	GW-38443-011118-KVM-036			Aroclor-1232 (PCB-1232)	0.070 UJ	µg/L
	GW-38443-011118-KVM-036			Aroclor-1242 (PCB-1242)	0.060 UJ	µg/L
	GW-38443-011118-KVM-036			Aroclor-1248 (PCB-1248)	0.050 UJ	µg/L
	GW-38443-011118-KVM-036			Aroclor-1254 (PCB-1254)	0.030 UJ	µg/L
	GW-38443-011118-KVM-036			Aroclor-1260 (PCB-1260)	0.040 UJ	µg/L

Notes:

PCBs - Polychlorinated Biphenyls
UJ - Not detected; associated reporting limit is estimated

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Dichlorodifluoromethane (CFC-12)	01/12/2018	70	GW-38443-010818-KMV-025	17 UJ	µg/L
				GW-38443-010818-KMV-026	2.5 UJ	µg/L
				GW-38443-010818-KMV-027	0.50 UJ	µg/L
				GW-38443-010918-KVM-028	0.50 UJ	µg/L
				GW-38443-010918-KVM-029	0.50 UJ	µg/L
				GW-38443-010918-KVM-030	0.50 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	01/12/2018	74	GW-38443-010818-KMV-025	0.50 UJ	µg/L
				GW-38443-010818-KMV-026	17 UJ	µg/L
				GW-38443-010818-KMV-027	2.5 UJ	µg/L
				GW-38443-010918-KVM-028	0.50 UJ	µg/L
				GW-38443-010918-KVM-029	0.50 UJ	µg/L
				GW-38443-010918-KVM-030	0.50 UJ	µg/L
VOCs	2-Butanone (Methyl ethyl ketone) (MEK)	01/12/2018	44	GW-38443-010818-KMV-025	34 UJ	µg/L
				GW-38443-010818-KMV-026	5.1 UJ	µg/L
				GW-38443-010818-KMV-027	1.0 UJ	µg/L
				GW-38443-010918-KVM-028	1.0 UJ	µg/L
				GW-38443-010918-KVM-029	1.0 UJ	µg/L
				GW-38443-010918-KVM-030	1.0 UJ	µg/L
VOCs	Carbon Tetrachloride	01/12/2018	27	GW-38443-010818-KMV-025	12 UJ	µg/L
				GW-38443-010818-KMV-026	1.8 UJ	µg/L
				GW-38443-010818-KMV-027	0.35 UJ	µg/L
				GW-38443-010918-KVM-028	0.35 UJ	µg/L
				GW-38443-010918-KVM-029	0.35 UJ	µg/L
				GW-38443-010918-KVM-030	0.35 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	01/12/2018	-37	GW-38443-010818-KMV-025	9.0 UJ	µg/L
				GW-38443-010818-KMV-026	1.4 UJ	µg/L
				GW-38443-010818-KMV-027	0.27 UJ	µg/L
				GW-38443-010918-KVM-028	0.27 UJ	µg/L
				GW-38443-010918-KVM-029	0.27 UJ	µg/L
				GW-38443-010918-KVM-030	0.27 UJ	µg/L
VOCs	Chloroethane	01/15/2018	-41	GW-38443-011018-KVM-031	0.41 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	01/16/2018	45	GW-38443-011018-KVM-032	0.50 UJ	µg/L
				GW-38443-011018-KVM-033	0.50 UJ	µg/L
				GW-38443-011018-KVM-034	0.50 UJ	µg/L
				GW-38443-011018-KVM-035	0.50 UJ	µg/L
				GW-38443-011118-KVM-036	0.50 UJ	µg/L
				GW-38443-011118-KVM-037	0.72 UJ	µg/L
				GW-38443-011118-KVM-038	1.3 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Trichlorofluoromethane (CFC-11)	01/16/2018	51	GW-38443-011018-KVM-032	0.50 UJ	µg/L
				GW-38443-011018-KVM-033	0.50 UJ	µg/L
				GW-38443-011018-KVM-034	0.50 UJ	µg/L
				GW-38443-011018-KVM-035	0.50 UJ	µg/L
				GW-38443-011118-KVM-036	0.50 UJ	µg/L
				GW-38443-011118-KVM-037	0.72 UJ	µg/L
				GW-38443-011118-KVM-038	1.3 UJ	µg/L
VOCs	2-Butanone (Methyl ethyl ketone) (MEK)	01/16/2018	41	GW-38443-011018-KVM-032	1.0 UJ	µg/L
				GW-38443-011018-KVM-033	1.0 UJ	µg/L
				GW-38443-011018-KVM-034	1.0 UJ	µg/L
				GW-38443-011018-KVM-035	1.0 UJ	µg/L
				GW-38443-011118-KVM-036	1.0 UJ	µg/L
				GW-38443-011118-KVM-037	1.5 UJ	µg/L
				GW-38443-011118-KVM-038	2.6 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	01/16/2018	-52	GW-38443-011018-KVM-032	0.27 UJ	µg/L
				GW-38443-011018-KVM-033	0.27 UJ	µg/L
				GW-38443-011018-KVM-034	0.27 UJ	µg/L
				GW-38443-011018-KVM-035	0.27 UJ	µg/L
				GW-38443-011118-KVM-036	0.27 UJ	µg/L
				GW-38443-011118-KVM-037	0.39 UJ	µg/L
				GW-38443-011118-KVM-038	0.68 UJ	µg/L
SVOCs	Di-n-octyl phthalate (DnOP)	01/17/2018	47	GW-38443-011018-KVM-031	0.23 UJ	µg/L
SVOCs	Benzo(b)fluoranthene	01/17/2018	46	GW-38443-011018-KVM-031	0.039 UJ	µg/L
SVOCs	Benzo(k)fluoranthene	01/17/2018	44	GW-38443-011018-KVM-031	0.045 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	01/26/2018	58	GW-38443-011618-KVM-039	0.84 UJ	µg/L
				GW-38443-011618-KVM-040	0.84 UJ	µg/L
				GW-38443-011618-KVM-041	2.5 UJ	µg/L
VOCs	Chloroethane	01/26/2018	-41	GW-38443-011618-KVM-039	0.68 UJ	µg/L
				GW-38443-011618-KVM-040	0.68 UJ	µg/L
				GW-38443-011618-KVM-041	2.1 UJ	µg/L

Notes:

SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds
%D - Percent difference
UJ - Not detected; associated reporting limit is estimated

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Raw Blank Result	DF	Sample ID	Original Result	Qualified Result	Units
VOCs	Methylene chloride	01/26/2018	4.1 J	2.46 J	1.67	GW-38443-011618-KVM-039	1.0 J	4.1 U	µg/L
			4.1 J	2.46 J	1.67	GW-38443-011618-KVM-040	1.0 J	4.1 U	µg/L
			12.3 J	2.46 J	5	GW-38443-011618-KVM-041	5.1	12 U	µg/L
VOCs	Methylene chloride	01/29/2018	2.4 J	1.46 J	1.67	GW-38443-011718-KVM-042	2.2	2.4 U	µg/L
VOCs	Acetone	01/12/2018	2.7 J	2.67 J	1	GW-38443-010818-KMV-027	2.4 J	2.7 U	µg/L
			89.0 J	2.67 J	33.33	GW-38443-010818-KMV-025	100 J	100 U	µg/L

Notes:

* - Blank result adjusted for sample factors
DF - Dilution Factor
J - Estimated concentration
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Results Due to Analyte Concentrations in the Instrument Blanks
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Analyte	Blank ID	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
Metals	Antimony	CCB	01/12/2018	0.79 J	GW-38443-010918-KVM-030	0.95 J	0.95 U	µg/L
	Antimony (dissolved)				GW-38443-010918-KVM-028	0.65 J	0.79 U	µg/L
	Antimony (dissolved)				GW-38443-010918-KVM-029	0.79 J	0.79 U	µg/L

Notes:

CCB - Continuing Calibration Blank
J - Estimated concentration
U - Not detected at the associated reporting limit

Table 8

Qualified Sample Data Due to Outlying of Surrogate Recoveries
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	GW-38443-010818-KMV-023	Dibromofluoromethane	165	69-124	Benzene	0.63 J	µg/L
		p-Bromofluorobenzene	138	69-120	Chlorobenzene	1.3 J	µg/L
		Toluene-D8	136	73-120	cis-1,2-Dichloroethene	21 J	µg/L
					Ethylbenzene	0.35 J	µg/L
					m&p-Xylenes	0.98 J	µg/L
					Methyl cyclohexane	0.71 J	µg/L
					o-Xylene	0.38 J	µg/L
					Toluene	0.65 J	µg/L
					Vinyl chloride	4.0 J	µg/L
					Xylenes (total)	1.4 J	µg/L

Notes:

VOCs - Volatile Organic Compounds
J - Estimated concentration

Table 9

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	1,1-Dichloroethane	01/16/2018	124	74-120	GW-38443-011018-KVM-032	0.30 J	µg/L
					GW-38443-011018-KVM-033	0.30 J	µg/L
					GW-38443-011118-KVM-036	0.28 J	µg/L

Notes:

LCS - Laboratory Control Sample
VOCs - Volatile Organic Compounds
J - Estimated concentration

Table 10

Qualified Sample Data Due to Outlying MS/MSD Recoveries
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Assoc Sample ID	Qualified Result	Units
VOCs	GW-38443-010818-KMV-024	cis-1,2-Dichloroethene	160	113	27	69-127	11	GW-38443-010818-KMV-024	58 J	µg/L
VOCs	GW-38443-010818-KMV-024	Methylene chloride	135	107	20	52-137	12	GW-38443-010818-KMV-024	15 J	µg/L
VOCs	GW-38443-010818-KMV-024	Vinyl chloride	190	142	20	55-123	12	GW-38443-010818-KMV-024	75 J	µg/L
Total Metals	GW-38443-011018-KVM-031	Beryllium	134	128	4	75-125	20	GW-38443-011018-KVM-032	4.3 J	µg/L
								GW-38443-011018-KVM-033	1.4 J	µg/L

Notes:

RPD - Relative Percent Difference
MS/MSD - Matrix Spike/Matrix Spike Duplicate
VOCs - Volatile Organic Compounds
J - Estimated concentration

Table 11

Qualified Sample Data Due to Outlying ICP Interference Check Sample Results
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	ICS Sample ID	Analyte	%R	%R Limits	Associated Sample ID	Associated Analyte	Qualified Result	Units
Metals	ICSAB 240-311426/11	Beryllium	125	80-120	GW-38443-011018-KVM-032	Beryllium	4.3 J	µg/L
					GW-38443-011018-KVM-033	Beryllium	1.4 J	µg/L

Notes:

%D - Percent Difference
ICP - Inductively Coupled Plasma
J - Estimated concentration
%R - Percent Recovery
ICS - Interference Check Sample

Table 12

Qualified Sample Results Due to Analyte Concentrations in the Field QC Blank
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Blank ID	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Analyte	Original Result	Qualified Result	Units
Metals	GW-38443-011718-KVM-EB	01/17/2018	Total Aluminum	73 J	GW-38443-011718-KVM-042	Total Aluminum	46 J	73 U	µg/L
Metals	GW-38443-011718-KVM-EB	01/17/2018	Total Arsenic	1.1 J	GW-38443-011718-KVM-042	Total Arsenic	4.3 J	4.3 U	µg/L
						Dissolved Arsenic	4.1 J	4.1 U	µg/L
Metals	GW-38443-011718-KVM-EB	01/17/2018	Total Copper	10	GW-38443-011718-KVM-042	Total Copper	3.0	10 U	µg/L
						Dissolved Copper	4.7	10 U	µg/L
Metals	GW-38443-011718-KVM-EB	01/17/2018	Total Magnesium	24000	GW-38443-011718-KVM-042	Total Magnesium	41000	41000 U	µg/L
						Dissolved Magnesium	40000	40000 U	µg/L
Metals	GW-38443-011718-KVM-EB	01/17/2018	Total Potassium	2700	GW-38443-011718-KVM-042	Total Potassium	6700	6700 U	µg/L
						Dissolved Potassium	6700	6700 U	µg/L
Metals	GW-38443-011718-KVM-EB	01/17/2018	Total Sodium	30000	GW-38443-011718-KVM-042	Total Sodium	48000	48000 U	ug/L
						Dissolved Sodium	48000	48000 U	ug/L
General Chemistry	GW-38443-011718-KVM-EB	01/17/2018	Chloride	63000	GW-38443-011718-KVM-042	Chloride	83000	83000 U	µg/L
General Chemistry	GW-38443-011718-KVM-EB	01/17/2018	Sulfate	49000	GW-38443-011718-KVM-042	Sulfate	81000	81000 U	µg/L

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit

Table 13

Qualified Sample Data Due to Variability in Field Duplicate Results
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Metals	Aluminum	102	31000	34	GW-38443-011018-KVM-032	46000 J	GW-38443-011018-KVM-033	15000 J	µg/L
	Aluminum (dissolved)	122	1060	34		1400 J		340 J	µg/L
	Antimony	84	5.9	0.57		10 J		4.1 J	µg/L
	Arsenic	101	550	0.75		820 J		270 J	µg/L
	Arsenic (dissolved)	118	19.3	0.75		26 J		6.7 J	µg/L
	Barium	100	2400	2.2		3600 J		1200 J	µg/L
	Beryllium	102	2.9	0.61		4.3 J		1.4 J	µg/L
	Cadmium	83	1.35	0.21		2.3 J		0.95 J	µg/L
	Calcium	82	700000	2900		1200000 J		500000 J	µg/L
	Chromium (dissolved)	108	9.1	0.98		13 J		3.9 J	µg/L
	Cobalt	94	46	0.19		72 J		26 J	µg/L
	Cobalt (dissolved)	62	1.7	0.19		3.6 J		1.9 J	µg/L
	Copper	100	220	1.7		330 J		110 J	µg/L
	Copper (dissolved)	127	10.1	1.7		13 J		2.9 J	µg/L
	Iron	100	260000	240		390000 J		130000 J	µg/L
	Iron (dissolved)	84	8300	47		14000 J		5700 J	µg/L
	Lead	102	210	0.45		310 J		100 J	µg/L
	Lead (dissolved)	130	7	0.45		8.9 J		1.9 J	µg/L
	Magnesium	98	270000	200		410000 J		140000 J	µg/L
	Manganese	80	3200	2.1		5600 J		2400 J	µg/L
	Nickel	60	120	1.5		260 J		140 J	µg/L
	Nickel (dissolved)	106	7.6	1.5		11 J		3.4 J	µg/L
	Vanadium	97	98	0.82		150 J		52 J	µg/L
	Zinc	68	2800	15		5500 J		2700 J	µg/L

Notes:

Diff - Difference (<RL for water)
J - Estimated concentration
RL - Reporting Limit
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated

Table 14

Qualified Sample Data Due to Discrepancies Between Total and Dissolved Results
VAS-32 and VAS-33 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January 2018

Parameter	Sample ID	Analyte	%D	Criteria (percent)	Qualified Total Result	Qualified Dissolved Result	Units
Metals	GW-38443-010818-KMV-024	Zinc	52	20	660 J	1000 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration

Memorandum

April 6, 2018

To:	Julian Hayward	Ref. No.:	038443-370
From:	Angela Bown/cs/37-NF	Tel:	513-942-4750
CC:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

1. Introduction

This document details a validation of analytical results for water samples collected in support of the VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling Program at the Moraine, Ohio site during January through February 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2A and Table 2B. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times with the exception of two samples for nitrate and nitrite analysis. Table 4 presents the qualified sample results.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is

analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Fumigants

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration

curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the coefficient of determination (R^2) is 0.990 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide	85 - 115%
Instrumental Wet Chemistry	Anions	90 - 110%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 5.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period with the exception of PCB results presented with qualifiers in Table 5.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 6 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 7).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides, PCBs, and SVOCs were not assessed. All remaining surrogate recoveries were within the laboratory criteria.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. Most LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Table 8 presents the sample results that were qualified as estimated due to outlying LCS recoveries.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision with a few exceptions. Table 9 presents the qualified sample results.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision with the exception of aluminum and sulfate. Table 9 presents the qualified sample results.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of 23 trip blank samples, 3 equipment rinse blanks, 2 field blank samples, and 3 field duplicate sample sets.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, 23 trip blanks were submitted to the laboratory for VOC analysis. Low levels of target analytes were detected in some of the trip blank samples. Most associated sample results were non-detect or were significantly greater than the trip blank values and were not impacted. Table 10 presents the sample results that were qualified as non-detect due to analytes concentrations in the trip blank samples that were similar in concentration to the investigative sample results.

15.2 Equipment Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, 3 rinse blanks were submitted for analysis, as identified in Table 1. Numerous target analytes were detected in the rinse blank samples. Table 11 presents the sample results that were qualified as non-detect due to analyte concentrations in the rinse blanks that were similar in concentration to the investigative sample results.

15.3 Field Blank Sample Analysis

To assess ambient conditions at the site, 2 field blanks were submitted for analysis, as identified in Table 1. Most results were non-detect for the analytes of interest. Table 12 presents the sample results that were qualified as non-detect due to analyte concentrations in the field blanks that were similar in concentration to the investigative sample results.

15.4 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, 3 field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 13 presents the sample results that were qualified due to variability in the field duplicate results.

16. Total versus Dissolved Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20%D). Table 14 presents the sample results that were qualified due to results that were in exceedance of the method variability.

17. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2A and Table 2B unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2A and Table 2B.

18. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide and PCB analyses were performed using dual column analyses. All the results showed good correlation between the two columns (<40 RPD).

19. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2A and Table 2B are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

					Analysis/Parameters									
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
TRIP BLANK-011918-KVM	-	Water	01/19/2018	08:00	X				X					Trip Blank
GW-38443-011918-KVM-043	VAS-31	Water	01/19/2018	10:30	X	X	X	X	X	X	X	X	X	
GW-38443-011918-KVM-044	VAS-31	Water	01/19/2018	13:00	X				X	X	X	X	X	
TRIPBLANK-012218-KVM	-	Water	01/22/2018	08:00	X				X					Trip Blank
GW-38443-012218-KVM-045	VAS-31	Water	01/22/2018	09:20	X				X	X	X		X	MS/MSD
GW-38443-012218-KVM-046	VAS-31	Water	01/22/2018	11:45	X	X	X	X	X	X	X	X	X	MS/MSD
GW-38443-012218-KVM-047	VAS-31	Water	01/22/2018	15:25	X				X	X	X		X	
TRIP BLANK-012318-KVM	-	Water	01/23/2018	08:00	X				X					Trip Blank
GW-38443-012318-KVM-048	VAS-31	Water	01/23/2018	11:00	X				X	X	X		X	
GW-38443-012318-KVM-049	VAS-31	Water	01/23/2018	15:00	X				X	X	X		X	
TRIP BLANK-012418-KVM	-	Water	01/24/2018	08:00	X				X					Trip Blank
GW-38443-012418-KVM-EB -		Water	01/24/2018	08:30	X				X	X	X		X	Equipment Blank
GW-38443-012418-KVM-050	VAS-31	Water	01/24/2018	10:20	X				X	X	X		X	
GW-38443-012418-KVM-FB	-	Water	01/24/2018	14:00	X				X	X	X		X	Field Blank
TRIP BLANK-012518-KVM	-	Water	01/25/2018	08:00	X				X					Trip Blank
GW-38443-012518-KVM-051	VAS-44	Water	01/25/2018	14:40	X				X	X	X		X	
TRIP BLANK-012618-KVM	-	Water	01/26/2018	08:00	X				X					Trip Blank
GW-38443-012618-KVM-052	VAS-44	Water	01/26/2018	09:00	X				X	X	X		X	MS/MSD
TRIPBLANK-013018-KVM	-	Water	01/30/2018	08:00	X				X					Trip Blank
GW-38443-013018-KVM-056	VAS-44	Water	01/30/2018	11:30	X				X	X	X		X	MS/MSD
GW-38443-013018-KVM-057	VAS-44	Water	01/30/2018	12:30	X				X	X	X		X	FD(GW-38443-013018-KVM-056)
GW-38443-013018-KVM-058	VAS-44	Water	01/30/2018	15:25	X				X	X	X		X	
TRIPBLANK-012918-KVM	-	Water	01/29/2018	08:00	X				X					Trip Blank
GW-038443-012918-KVM-053	VAS-44	Water	01/29/2018	10:05	X				X	X	X		X	
GW-038443-012918-KVM-054	VAS-44	Water	01/29/2018	11:45	X				X	X	X		X	
GW-038443-012918-KVM-055	VAS-44	Water	01/29/2018	15:05	X				X	X	X		X	MS/MSD
TRIP BLANK-013118-KVM	-	Water	01/31/2018	08:00	X				X					Trip Blank
GW-38443-013118-KVM-059	VAS-44	Water	01/31/2018	10:25	X				X	X	X		X	MS/MSD
GW-38443-013118-KVM-060	VAS-44	Water	01/31/2018	14:45	X				X	X	X		X	

Table 1

Sample Collection and Analysis Summary
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

					Analysis/Parameters									
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
TRIP BLANK-020118-KVM	-	Water	02/01/2018	08:00	X				X					Trip Blank
GW-38443-020118-KVM-061	VAS-44	Water	02/01/2018	10:25	X				X	X	X		X	MS/MSD
GW-38443-020118-KVM-062	VAS-44	Water	02/01/2018	14:00	X				X	X	X		X	
TRIP BLANK-020518-KVM	-	Water	02/05/2018	08:00	X				X					Trip Blank
GW-38443-020518-KVM-063	VAS-44	Water	02/05/2018	10:30	X				X	X	X		X	MS/MSD
GW-38443-020518-KVM-064	VAS-44	Water	02/05/2018	14:40	X				X	X	X		X	
TRIPBLANK-020618-KVM	-	Water	02/06/2018	08:00	X				X					Trip Blank
GW-038443-020618-KVM-EB	-	Water	02/06/2018	09:30	X				X	X	X		X	Equipment Blank
GW-038443-020618-KVM-065	VAS-44	Water	02/06/2018	10:00	X				X	X	X		X	MS/MSD
TRIPBLANK-020718-KVM	-	Water	02/07/2018	08:00	X				X					Trip Blank
GW-038443-020718-KVM-066	VAS-38	Water	02/07/2018	09:30	X	X	X	X	X	X	X	X	X	
GW-038443-020718-KVM-068	VAS-38	Water	02/07/2018	11:00	X				X	X	X		X	FD(GW-038443-020718-KVM-067)
GW-038443-020718-KVM-069	VAS-38	Water	02/07/2018	11:45	X				X	X	X		X	
GW-038443-020718-KVM-070	VAS-38	Water	02/07/2018	13:20	X				X	X	X		X	
GW-038443-020718-KVM-067	VAS-38	Water	02/07/2018	-	X				X	X	X		X	
GW-38443-020818-JC-071	VAS-38	Water	02/08/2018	09:30	X				X	X	X		X	
GW-38443-020818-JC-072	VAS-38	Water	02/08/2018	11:20	X				X	X	X		X	
GW-38443-020818-JC-073	VAS-38	Water	02/08/2018	14:10	X				X	X	X		X	
TRIP BLANK-020818-JC	-	Water	02/08/2018	-	X				X					Trip Blank
GW-38443-020918-JC-074	VAS-38	Water	02/09/2018	08:35	X	X	X	X	X	X	X	X	X	
TRIPBLANK-020918-JC	-	Water	02/09/2018	-	X				X					Trip Blank
TRIP BLANK-021318-JC	-	Water	02/13/2018	-	X				X					Trip Blank
GW-38443-021318-JC-075	VAS-38	Water	02/13/2018	10:00	X				X	X	X		X	
GW-38443-021318-JC-076	VAS-38	Water	02/13/2018	13:30	X				X	X	X		X	
TRIPBLANK-021418-JC	-	Water	02/14/2018	-	X				X					Trip Blank
GW-38443-021418-JC-077	VAS-38	Water	02/14/2018	09:15	X				X	X	X		X	
TRIPBLANK-021618-JC	-	Water	02/16/2018	-	X				X					Trip Blank
GW-38443-021618-JC-078	VAS-34	Water	02/16/2018	10:55	X	X	X	X	X	X	X	X	X	
GW-38443-021618-JC-079	VAS-34	Water	02/16/2018	12:45	X				X	X	X		X	

Table 1

Sample Collection and Analysis Summary
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

					Analysis/Parameters									
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
TRIPBLANK-021918-JC	-	Water	02/19/2018	-	X				X					Trip Blank
GW-38443-021918-JC-080	VAS-34	Water	02/19/2018	10:20	X				X	X	X		X	
GW-38443-021918-JC-081	VAS-34	Water	02/19/2018	12:55	X	X	X	X	X	X	X	X	X	
TRIP BLANK-022018-JC	-	Water	02/20/2018	-	X				X					Trip Blank
GW-38443-022018-JC-082	VAS-34	Water	02/20/2018	08:20	X				X	X	X		X	
GW-38443-022018-JC-083	VAS-34	Water	02/20/2018	10:40	X				X	X	X		X	
GW-38443-022018-JC-084	VAS-34	Water	02/20/2018	13:40	X				X	X	X		X	
TRIPBLANK-022118-JC	-	Water	02/21/2018	-	X				X					Trip Blank
GW-38443-022118-JC-085	VAS-34	Water	02/21/2018	08:20	X				X	X	X		X	
GW-38443-022118-JC-086	VAS-34	Water	02/21/2018	11:00	X				X	X	X		X	
GW-38443-022118-JC-087	VAS-34	Water	02/21/2018	14:15	X				X	X	X		X	
GW-38443-022118-JC-088	VAS-34	Water	02/21/2018	14:20	X				X	X	X		X	FD(GW-38443-022118-JC-087)
GW-38443-022118-JC-089	-	Water	02/21/2018	14:45	X				X	X	X		X	Field Blank
TRIP BLANK-022218-JC	-	Water	02/22/2018	-	X				X					Trip Blank
GW-38443-022218-JC-090	VAS-34	Water	02/22/2018	08:45	X				X	X	X		X	
GW-38443-022218-JC-091	VAS-34	Water	02/22/2018	12:00	X				X	X	X		X	
GW-38443-022218-JC-092	VAS-34	Water	02/22/2018	15:15	X				X	X	X		X	
TRIP BLANK-022318-JC	-	Water	02/23/2018	-	X				X					Trip Blank
EB-38443-022318-JC-093	-	Water	02/23/2018	08:20	X				X	X	X		X	Equipment Blank
GW-38443-022318-JC-094	VAS-34	Water	02/23/2018	09:10	X				X	X	X		X	

Notes:

- - Not applicable
FD - Field Duplicate sample of sample in parentheses
MS/MSD - Matrix Spike/Matrix Spike Duplicate
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		VAS-31	VAS-31	VAS-31	VAS-31
Sample ID:		GW-38443-011918-KVM-043	GW-38443-011918-KVM-044	GW-38443-012218-KVM-045	GW-38443-012218-KVM-046
Sample Date:		1/19/2018	1/19/2018	1/22/2018	1/22/2018
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Parameters	**Units**				
BTEX Volatiles					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	5.2 J	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 UJ	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 UJ	0.41 UJ
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 UJ	0.43 UJ	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.54 J	0.53 J	0.65 J
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**
Sample ID:		**GW-38443-011918-KVM-043**	**GW-38443-011918-KVM-044**	**GW-38443-012218-KVM-045**	**GW-38443-012218-KVM-046**
Sample Date:		**1/19/2018**	**1/19/2018**	**1/22/2018**	**1/22/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Units**				
BTEX Volatiles					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.43 J	1.4	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	8.3	3.0	2.8
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-Volatiles					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.38 U	-	-	0.39 U
2,4,5-Trichlorophenol	µg/L	0.29 U	-	-	0.29 U
2,4,6-Trichlorophenol	µg/L	0.23 U	-	-	0.24 U
2,4-Dichlorophenol	µg/L	0.18 U	-	-	0.19 U
2,4-Dimethylphenol	µg/L	0.24 U	-	-	0.25 U
2,4-Dinitrophenol	µg/L	0.30 U	-	-	0.31 U
2,4-Dinitrotoluene	µg/L	0.24 U	-	-	0.25 U
2,6-Dinitrotoluene	µg/L	0.76 U	-	-	0.78 U
2-Chloronaphthalene	µg/L	0.095 U	-	-	0.098 U
2-Chlorophenol	µg/L	0.28 U	-	-	0.28 U
2-Methylnaphthalene	µg/L	0.086 U	-	-	0.089 U
2-Methylphenol	µg/L	0.16 U	-	-	0.17 U
2-Nitroaniline	µg/L	0.20 U	-	-	0.21 U
2-Nitrophenol	µg/L	0.27 U	-	-	0.27 U
3&4-Methylphenol	µg/L	0.76 U	-	-	0.78 U
3,3'-Dichlorobenzidine	µg/L	0.35 U	-	-	0.36 U
3-Nitroaniline	µg/L	0.27 U	-	-	0.27 U
4,6-Dinitro-2-methylphenol	µg/L	2.3 U	-	-	2.4 U
4-Bromophenyl phenyl ether	µg/L	0.21 U	-	-	0.22 U
4-Chloro-3-methylphenol	µg/L	0.20 U	-	-	0.21 U
4-Chloroaniline	µg/L	0.20 U	-	-	0.21 U
4-Chlorophenyl phenyl ether	µg/L	0.29 U	-	-	0.29 U
4-Nitroaniline	µg/L	0.21 U	-	-	0.22 U
4-Nitrophenol	µg/L	0.28 U	-	-	0.28 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-31	VAS-31	VAS-31	VAS-31
	Sample ID:	GW-38443-011918-KVM-043	GW-38443-011918-KVM-044	GW-38443-012218-KVM-045	GW-38443-012218-KVM-046
	Sample Date:	1/19/2018	1/19/2018	1/22/2018	1/22/2018
	Sample Depth:	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Parameters	**Units**				
Semi-Volatiles					
Acenaphthene	µg/L	0.042 U	-	-	0.043 U
Acenaphthylene	µg/L	0.046 U	-	-	0.047 U
Acetophenone	µg/L	0.32 U	-	-	0.33 U
Anthracene	µg/L	0.084 U	-	-	0.086 U
Atrazine	µg/L	0.32 U	-	-	0.33 U
Benzaldehyde	µg/L	0.37 U	-	-	0.38 U
Benzo(a)anthracene	µg/L	0.028 U	-	-	0.029 U
Benzo(a)pyrene	µg/L	0.049 U	-	-	0.050 U
Benzo(b)fluoranthene	µg/L	0.038 U	-	-	0.039 U
Benzo(g,h,i)perylene	µg/L	0.044 U	-	-	0.045 U
Benzo(k)fluoranthene	µg/L	0.043 U	-	-	0.044 U
Biphenyl (1,1-Biphenyl)	µg/L	0.88 U	-	-	0.41 J
bis(2-Chloroethoxy)methane	µg/L	0.30 U	-	-	0.31 U
bis(2-Chloroethyl)ether	µg/L	0.095 U	-	-	0.098 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.6 U	-	-	1.7 U
Butyl benzylphthalate (BBP)	µg/L	0.25 U	-	-	0.25 U
Caprolactam	µg/L	0.19 U	-	-	0.20 U
Carbazole	µg/L	0.27 U	-	-	0.27 U
Chrysene	µg/L	0.048 U	-	-	0.049 U
Dibenz(a,h)anthracene	µg/L	0.042 U	-	-	0.044 U
Dibenzofuran	µg/L	0.019 U	-	-	0.020 U
Diethyl phthalate	µg/L	0.57 U	-	-	0.59 U
Dimethyl phthalate	µg/L	0.28 U	-	-	0.28 U
Di-n-butylphthalate (DBP)	µg/L	1.6 U	-	-	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.22 U	-	-	0.23 U
Fluoranthene	µg/L	0.042 U	-	-	0.044 U
Fluorene	µg/L	0.039 U	-	-	0.040 U
Hexachlorobenzene	µg/L	0.081 U	-	-	0.084 U
Hexachlorobutadiene	µg/L	0.26 U	-	-	0.26 U
Hexachlorocyclopentadiene	µg/L	0.23 U	-	-	0.24 U
Hexachloroethane	µg/L	0.18 U	-	-	0.19 U
Indeno(1,2,3-cd)pyrene	µg/L	0.041 U	-	-	0.042 U
Isophorone	µg/L	0.26 U	-	-	0.26 U
Naphthalene	µg/L	0.060 U	-	-	0.061 U
Nitrobenzene	µg/L	0.038 U	-	-	0.039 U
N-Nitrosodi-n-propylamine	µg/L	0.23 U	-	-	0.24 U
N-Nitrosodiphenylamine	µg/L	0.30 U	-	-	0.30 U
Pentachlorophenol	µg/L	0.26 U	-	-	0.26 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-31	VAS-31	VAS-31	VAS-31
	Sample ID:	GW-38443-011918-KVM-043	GW-38443-011918-KVM-044	GW-38443-012218-KVM-045	GW-38443-012218-KVM-046
	Sample Date:	1/19/2018	1/19/2018	1/22/2018	1/22/2018
	Sample Depth:	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Parameters	**Units**				
Semi-Volatiles					
Phenanthrene	µg/L	0.059 U	-	-	0.061 U
Phenol	µg/L	0.57 U	-	-	0.59 U
Pyrene	µg/L	0.040 U	-	-	0.041 U
Metals					
Aluminum	µg/L	1500	16000	250	61
Aluminum (dissolved)	µg/L	34 U	8000	34 U	34 U
Antimony	µg/L	0.66 J	1.1 J	1.5 J	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.73 J	1.0 J	0.57 U
Arsenic	µg/L	2.7 J	44	1.3 J	0.75 U
Arsenic (dissolved)	µg/L	0.75 U	19	0.75 U	0.75 U
Barium	µg/L	270	570	99	130
Barium (dissolved)	µg/L	220	300	110	120
Beryllium	µg/L	0.31 U	0.92 J	0.35 J	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.45 J	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.51 J	0.29 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.26 J	0.21 J	0.21 U
Calcium	µg/L	190000	250000	110000	120000
Calcium (dissolved)	µg/L	140000	190000	120000	120000
Chromium	µg/L	4.0	26	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	15	0.98 U	0.98 U
Cobalt	µg/L	1.6	14	0.56 J	0.47 J
Cobalt (dissolved)	µg/L	0.35 J	7.0	0.34 J	0.37 J
Copper	µg/L	12	50	5.5	1.7 U
Copper (dissolved)	µg/L	2.9	26	3.0	1.7 U
Iron	µg/L	3400	39000	710	870
Iron (dissolved)	µg/L	47 U	19000	65 J	310
Lead	µg/L	72	28	0.68 J	0.45 U
Lead (dissolved)	µg/L	0.45 U	14	0.45 U	0.45 U
Magnesium	µg/L	57000	88000	31000	36000
Magnesium (dissolved)	µg/L	36000	62000	33000	36000
Manganese	µg/L	270	1700	400	420
Manganese (dissolved)	µg/L	37	1200	410	410
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	4.8	36	1.6 J	1.7 J
Nickel (dissolved)	µg/L	1.5 U	19	1.5 U	1.5 U
Potassium	µg/L	4600	11000	4500	4000

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-31	VAS-31	VAS-31	VAS-31
	Sample ID:	GW-38443-011918-KVM-043	GW-38443-011918-KVM-044	GW-38443-012218-KVM-045	GW-38443-012218-KVM-046
	Sample Date:	1/19/2018	1/19/2018	1/22/2018	1/22/2018
	Sample Depth:	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Parameters	**Units**				
Metals					
Potassium (dissolved)	µg/L	4000	9100	4800	3900
Selenium	µg/L	2.7 J	3.0 J	1.0 J	0.89 U
Selenium (dissolved)	µg/L	2.5 J	2.5 J	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.079 J	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	36000	43000	40000	59000
Sodium (dissolved)	µg/L	34000	46000	44000	59000
Thallium	µg/L	0.48 J	1.4	0.20 J	0.20 U
Thallium (dissolved)	µg/L	0.30 J	0.68 J	0.20 U	0.20 U
Vanadium	µg/L	4.1 J	36	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	18	0.82 U	0.82 U
Zinc	µg/L	410	1100	290	330
Zinc (dissolved)	µg/L	290	1300	300	250
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.051 U	-	-	0.048 U
Aroclor-1221 (PCB-1221)	µg/L	0.092 U	-	-	0.086 U
Aroclor-1232 (PCB-1232)	µg/L	0.071 U	-	-	0.067 U
Aroclor-1242 (PCB-1242)	µg/L	0.061 U	-	-	0.057 U
Aroclor-1248 (PCB-1248)	µg/L	0.051 U	-	-	0.048 U
Aroclor-1254 (PCB-1254)	µg/L	0.031 U	-	-	0.029 U
Aroclor-1260 (PCB-1260)	µg/L	0.041 U	-	-	0.038 U
Pesticides					
4,4'-DDD	µg/L	0.018 U	-	-	0.018 U
4,4'-DDE	µg/L	0.012 U	-	-	0.012 U
4,4'-DDT	µg/L	0.017 U	-	-	0.017 U
Aldrin	µg/L	0.013 U	-	-	0.013 U
alpha-BHC	µg/L	0.014 U	-	-	0.014 U
alpha-Chlordane	µg/L	0.012 U	-	-	0.012 U
beta-BHC	µg/L	0.018 U	-	-	0.018 U
delta-BHC	µg/L	0.029 U	-	-	0.029 U
Dieldrin	µg/L	0.013 U	-	-	0.013 U
Endosulfan I	µg/L	0.016 U	-	-	0.016 U
Endosulfan II	µg/L	0.015 U	-	-	0.015 U
Endosulfan sulfate	µg/L	0.015 U	-	-	0.015 U
Endrin	µg/L	0.013 U	-	-	0.013 U
Endrin aldehyde	µg/L	0.018 U	-	-	0.018 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**
Sample ID:		**GW-38443-011918-KVM-043**	**GW-38443-011918-KVM-044**	**GW-38443-012218-KVM-045**	**GW-38443-012218-KVM-046**
Sample Date:		**1/19/2018**	**1/19/2018**	**1/22/2018**	**1/22/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Units**				
Pesticides					
Endrin ketone	µg/L	0.016 U	-	-	0.016 U
gamma-BHC (lindane)	µg/L	0.013 U	-	-	0.013 U
gamma-Chlordane	µg/L	0.013 U	-	-	0.013 U
Heptachlor	µg/L	0.014 U	-	-	0.014 U
Heptachlor epoxide	µg/L	0.015 U	-	-	0.015 U
Methoxychlor	µg/L	0.013 U	-	-	0.013 U
Toxaphene	µg/L	0.20 U	-	-	0.19 U
General Chemistry					
Chloride	µg/L	59000	69000	67000	110000
Cyanide (total)	mg/L	0.0060 U	-	-	0.0060 U
Nitrate (as N)	µg/L	4600	3000	3000	1400
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	43000	49000	50000	58000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
BTEX - Benzene, Toluene, Ethylbenzene,and Xylene
PCBs - Polychlorinated Biphenyls

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**
Sample ID:		**GW-38443-012218-KVM-047**	**GW-38443-012318-KVM-048**	**GW-38443-012318-KVM-049**	**GW-38443-012418-KVM-050**
Sample Date:		**1/22/2018**	**1/23/2018**	**1/23/2018**	**1/24/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Units**				
BTEX Volatiles					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.45 J	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 UJ	0.35 UJ	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	1.6	6.1	5.0	4.1
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**
Sample ID:		**GW-38443-012218-KVM-047**	**GW-38443-012318-KVM-048**	**GW-38443-012318-KVM-049**	**GW-38443-012418-KVM-050**
Sample Date:		**1/22/2018**	**1/23/2018**	**1/23/2018**	**1/24/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Units**				
BTEX Volatiles					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.38 J
trans-1,2-Dichloroethene	µg/L	0.29 U	0.32 J	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.42 J	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-Volatiles					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**
Sample ID:		**GW-38443-012218-KVM-047**	**GW-38443-012318-KVM-048**	**GW-38443-012318-KVM-049**	**GW-38443-012418-KVM-050**
Sample Date:		**1/22/2018**	**1/23/2018**	**1/23/2018**	**1/24/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Units**				
Semi-Volatiles					
Acenaphthene	µg/L	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-
Acetophenone	µg/L	-	-	-	-
Anthracene	µg/L	-	-	-	-
Atrazine	µg/L	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-
Caprolactam	µg/L	-	-	-	-
Carbazole	µg/L	-	-	-	-
Chrysene	µg/L	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-
Fluoranthene	µg/L	-	-	-	-
Fluorene	µg/L	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-
Isophorone	µg/L	-	-	-	-
Naphthalene	µg/L	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-31	VAS-31	VAS-31	VAS-31
	Sample ID:	GW-38443-012218-KVM-047	GW-38443-012318-KVM-048	GW-38443-012318-KVM-049	GW-38443-012418-KVM-050
	Sample Date:	1/22/2018	1/23/2018	1/23/2018	1/24/2018
	Sample Depth:	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS
Parameters	**Units**				
Semi-Volatiles					
Phenanthrene	µg/L	-	-	-	-
Phenol	µg/L	-	-	-	-
Pyrene	µg/L	-	-	-	-
Metals					
Aluminum	µg/L	54	34 U	1400	200
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.68 J	0.57 U	0.95 U
Antimony (dissolved)	µg/L	0.57 U	0.66 J	0.57 U	0.57 U
Arsenic	µg/L	1.0 J	3.9 J	2.6 J	1.1 J
Arsenic (dissolved)	µg/L	0.75 U	3.8 J	2.3 J	1.1 J
Barium	µg/L	150	290	410	430
Barium (dissolved)	µg/L	150	290	400	410
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	120000	130000	130000
Calcium (dissolved)	µg/L	120000	110000	120000	120000
Chromium	µg/L	0.98 U	0.98 U	3.6	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.34 J	0.39 J	1.2	0.51 J
Cobalt (dissolved)	µg/L	0.33 J	0.35 J	0.28 J	0.34 J
Copper	µg/L	1.7 U	1.7 U	5.8	1.8 U
Copper (dissolved)	µg/L	1.7 U	3.3	1.7 U	5.1
Iron	µg/L	480	1500	5200	2300
Iron (dissolved)	µg/L	320	1300	1400	1200
Lead	µg/L	0.45 U	0.45 U	1.7	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	35000	36000	44000	39000 U
Magnesium (dissolved)	µg/L	36000	36000	39000	37000 U
Manganese	µg/L	320	190	150	110
Manganese (dissolved)	µg/L	330	180	91	95
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	2.0	3.9	2.1
Nickel (dissolved)	µg/L	1.5 U	1.9 J	1.5 U	1.5 U
Potassium	µg/L	3500	4500	5100	4900 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-31	VAS-31	VAS-31	VAS-31
	Sample ID:	GW-38443-012218-KVM-047	GW-38443-012318-KVM-048	GW-38443-012318-KVM-049	GW-38443-012418-KVM-050
	Sample Date:	1/22/2018	1/23/2018	1/23/2018	1/24/2018
	Sample Depth:	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS
Parameters	**Units**				
Metals					
Potassium (dissolved)	µg/L	3600	4500	4900	4800 U
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	65000	69000	68000	70000 U
Sodium (dissolved)	µg/L	69000	69000	68000	70000 U
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	2.9 J	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	170	240	170	210
Zinc (dissolved)	µg/L	190	250	140	210
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-
Pesticides					
4,4'-DDD	µg/L	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-
Aldrin	µg/L	-	-	-	-
alpha-BHC	µg/L	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-
beta-BHC	µg/L	-	-	-	-
delta-BHC	µg/L	-	-	-	-
Dieldrin	µg/L	-	-	-	-
Endosulfan I	µg/L	-	-	-	-
Endosulfan II	µg/L	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-
Endrin	µg/L	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**
Sample ID:		**GW-38443-012218-KVM-047**	**GW-38443-012318-KVM-048**	**GW-38443-012318-KVM-049**	**GW-38443-012418-KVM-050**
Sample Date:		**1/22/2018**	**1/23/2018**	**1/23/2018**	**1/24/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Units**				
Pesticides					
Endrin ketone	µg/L	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-
Heptachlor	µg/L	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-
Methoxychlor	µg/L	-	-	-	-
Toxaphene	µg/L	-	-	-	-
General Chemistry					
Chloride	µg/L	130000	140000	140000	150000
Cyanide (total)	mg/L	-	-	-	-
Nitrate (as N)	µg/L	14 U	14 U	45 J	810 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	58000	59000	64000	64000 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
BTEX - Benzene, Toluene, Ethylbenzene,and Xylene
PCBs - Polychlorinated Biphenyls

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-012518-KVM-051**	**GW-38443-012618-KVM-052**	**GW-038443-012918-KVM-053**	**GW-038443-012918-KVM-054**
Sample Date:		**1/25/2018**	**1/26/2018**	**1/29/2018**	**1/29/2018**
Sample Depth:		**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Parameters	**Units**				
BTEX Volatiles					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	5.8 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 UJ	0.32 U	8.0 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	8.5 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	6.3 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	6.8 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 UJ	6.8 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	6.5 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	7.5 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	7.5 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	8.0 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	5.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.6 J	1.0 U	26 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	31 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	18 U
Acetone	µg/L	2.2 J	4.1 J	1.8 U	44 U
Benzene	µg/L	0.47 J	0.83 J	0.28 U	7.0 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	7.5 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	11 U
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 U	0.42 UJ	11 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	8.5 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 UJ	8.8 UJ
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	8.0 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	10 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	7.8 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	11 U
cis-1,2-Dichloroethene	µg/L	0.89 J	3.4	12	220
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	6.5 U
Cyclohexane	µg/L	0.44 U	0.50 J	0.44 U	11 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	6.3 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 UJ	13 UJ
Ethylbenzene	µg/L	0.26 U	0.37 J	0.26 U	6.5 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	5.3 U
m&p-Xylenes	µg/L	0.26 J	0.49 J	0.24 U	6.0 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	36 U
Methyl cyclohexane	µg/L	0.45 U	0.45 J	0.45 U	11 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	6.8 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-012518-KVM-051**	**GW-38443-012618-KVM-052**	**GW-038443-012918-KVM-053**	**GW-038443-012918-KVM-054**
Sample Date:		**1/25/2018**	**1/26/2018**	**1/29/2018**	**1/29/2018**
Sample Depth:		**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Parameters	**Units**				
BTEX Volatiles					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	13 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	7.0 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	5.8 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	7.5 U
Toluene	µg/L	1.9	4.1	0.43 J	5.8 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.32 J	7.3 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	7.8 U
Trichloroethene	µg/L	0.35 J	0.33 U	0.33 U	8.3 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 UJ	13 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	10 U
Vinyl chloride	µg/L	0.45 U	0.45 U	2.5	250
Xylenes (total)	µg/L	0.26 J	0.49 J	0.24 U	6.0 U
Semi-Volatiles					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-012518-KVM-051**	**GW-38443-012618-KVM-052**	**GW-038443-012918-KVM-053**	**GW-038443-012918-KVM-054**
Sample Date:		**1/25/2018**	**1/26/2018**	**1/29/2018**	**1/29/2018**
Sample Depth:		**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Parameters	**Units**				
Semi-Volatiles					
Acenaphthene	µg/L	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-
Acetophenone	µg/L	-	-	-	-
Anthracene	µg/L	-	-	-	-
Atrazine	µg/L	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-
Caprolactam	µg/L	-	-	-	-
Carbazole	µg/L	-	-	-	-
Chrysene	µg/L	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-
Fluoranthene	µg/L	-	-	-	-
Fluorene	µg/L	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-
Isophorone	µg/L	-	-	-	-
Naphthalene	µg/L	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-012518-KVM-051	GW-38443-012618-KVM-052	GW-038443-012918-KVM-053	GW-038443-012918-KVM-054
	Sample Date:	1/25/2018	1/26/2018	1/29/2018	1/29/2018
	Sample Depth:	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS
Parameters	**Units**				
Semi-Volatiles					
Phenanthrene	µg/L	-	-	-	-
Phenol	µg/L	-	-	-	-
Pyrene	µg/L	-	-	-	-
Metals					
Aluminum	µg/L	6300 J	12000 J	400	1200
Aluminum (dissolved)	µg/L	880	290	59	34 J
Antimony	µg/L	5.3	8.7	0.57 U	1.1 J
Antimony (dissolved)	µg/L	2.0 U	1.6 U	0.57 U	0.97 J
Arsenic	µg/L	16	30	2.6 J	4.4 J
Arsenic (dissolved)	µg/L	2.2 J	1.3 J	1.9 J	3.3 J
Barium	µg/L	390	610	120	100
Barium (dissolved)	µg/L	160	120	110	85
Beryllium	µg/L	1.2	1.2	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.41 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	2.1	1.9	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.37 J	0.21 U	0.21 U	0.21 U
Calcium	µg/L	310000	420000	100000	120000
Calcium (dissolved)	µg/L	130000	96000	96000	97000
Chromium	µg/L	17	35	2.2	3.9
Chromium (dissolved)	µg/L	2.4	1.1 J	0.98 U	0.98 U
Cobalt	µg/L	11	15	1.5	3.7
Cobalt (dissolved)	µg/L	3.6	1.7	1.1	3.0
Copper	µg/L	84	110	3.6	6.8
Copper (dissolved)	µg/L	12	12	1.7 U	1.7 U
Iron	µg/L	21000	44000	2100	3800
Iron (dissolved)	µg/L	2800	1500	790	1100
Lead	µg/L	140	150	4.0	2.5
Lead (dissolved)	µg/L	17	4.7	0.56 J	0.45 U
Magnesium	µg/L	110000	170000	38000	45000
Magnesium (dissolved)	µg/L	47000	45000	35000	35000
Manganese	µg/L	820	1200	370	96
Manganese (dissolved)	µg/L	430	260	350	35
Mercury	µg/L	0.56	0.36	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	29	47	3.0	4.4
Nickel (dissolved)	µg/L	7.9	4.1	1.7 J	1.5 J
Potassium	µg/L	9300	11000	6200	4800

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-012518-KVM-051	GW-38443-012618-KVM-052	GW-038443-012918-KVM-053	GW-038443-012918-KVM-054
	Sample Date:	1/25/2018	1/26/2018	1/29/2018	1/29/2018
	Sample Depth:	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS
Parameters	**Units**				
Metals					
Potassium (dissolved)	µg/L	8400	8500	6400	4800
Selenium	µg/L	6.6	20	1.3 J	0.89 U
Selenium (dissolved)	µg/L	5.4	2.4 J	1.1 J	0.89 U
Silver	µg/L	0.20 U	0.20 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	110000	98000	86000	79000
Sodium (dissolved)	µg/L	120000	95000	89000	82000
Thallium	µg/L	0.62 J	0.77 J	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	22	36	1.2 J	2.8 J
Vanadium (dissolved)	µg/L	3.2 J	1.1 J	0.82 U	0.82 U
Zinc	µg/L	3500	4300	200	460
Zinc (dissolved)	µg/L	2800	2000	140	400
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-
Pesticides					
4,4'-DDD	µg/L	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-
Aldrin	µg/L	-	-	-	-
alpha-BHC	µg/L	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-
beta-BHC	µg/L	-	-	-	-
delta-BHC	µg/L	-	-	-	-
Dieldrin	µg/L	-	-	-	-
Endosulfan I	µg/L	-	-	-	-
Endosulfan II	µg/L	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-
Endrin	µg/L	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-012518-KVM-051**	**GW-38443-012618-KVM-052**	**GW-038443-012918-KVM-053**	**GW-038443-012918-KVM-054**
Sample Date:		**1/25/2018**	**1/26/2018**	**1/29/2018**	**1/29/2018**
Sample Depth:		**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Parameters	**Units**				
Pesticides					
Endrin ketone	µg/L	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-
Heptachlor	µg/L	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-
Methoxychlor	µg/L	-	-	-	-
Toxaphene	µg/L	-	-	-	-
General Chemistry					
Chloride	µg/L	210000	200000	170000	140000
Cyanide (total)	mg/L	-	-	-	-
Nitrate (as N)	µg/L	2900	580	42 J	36 J
Nitrite (as N)	µg/L	89 J	22 J	14 UJ	14 UJ
Sulfate	µg/L	63000	66000	65000	64000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
BTEX - Benzene, Toluene, Ethylbenzene,and Xylene
PCBs - Polychlorinated Biphenyls

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057	GW-38443-013018-KVM-058
	Sample Date:	1/29/2018	1/30/2018	1/30/2018	1/30/2018
	Sample Depth:	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	70-80 ft BGS
Parameters	**Units**				
BTEX Volatiles					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.98 J	0.49 J	0.48 J	0.28 U
Bromodichloromethane	µg/L	0.34 J	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.39 J	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	3.5	0.95 J	1.0	0.75 J
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.28 J	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057	GW-38443-013018-KVM-058
	Sample Date:	1/29/2018	1/30/2018	1/30/2018	1/30/2018
	Sample Depth:	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	70-80 ft BGS
Parameters	**Units**				
BTEX Volatiles					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	2.9	6.5	6.8	2.3
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-Volatiles					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057	GW-38443-013018-KVM-058
	Sample Date:	1/29/2018	1/30/2018	1/30/2018	1/30/2018
	Sample Depth:	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	70-80 ft BGS
Parameters	**Units**				
Semi-Volatiles					
Acenaphthene	µg/L	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-
Acetophenone	µg/L	-	-	-	-
Anthracene	µg/L	-	-	-	-
Atrazine	µg/L	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-
Caprolactam	µg/L	-	-	-	-
Carbazole	µg/L	-	-	-	-
Chrysene	µg/L	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-
Fluoranthene	µg/L	-	-	-	-
Fluorene	µg/L	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-
Isophorone	µg/L	-	-	-	-
Naphthalene	µg/L	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057	GW-38443-013018-KVM-058
	Sample Date:	1/29/2018	1/30/2018	1/30/2018	1/30/2018
	Sample Depth:	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	70-80 ft BGS
Parameters	**Units**				
Semi-Volatiles					
Phenanthrene	µg/L	-	-	-	-
Phenol	µg/L	-	-	-	-
Pyrene	µg/L	-	-	-	-
Metals					
Aluminum	µg/L	34 U	290	340	750
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	1.0 J	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	1.1 J	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	2.8 J	2.6 J	2.8 J	7.1
Arsenic (dissolved)	µg/L	2.9 J	2.6 J	2.8 J	7.1
Barium	µg/L	1900	4800	5000	130
Barium (dissolved)	µg/L	2000	5200	5100	130
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	85000	19000	21000	100000
Calcium (dissolved)	µg/L	82000	16000	16000	100000
Chromium	µg/L	0.98 U	1.0 J	1.2 J	3.0
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	4.7	31	31	0.51 J
Cobalt (dissolved)	µg/L	4.5	32	33	0.19 U
Copper	µg/L	1.7 J	6.0 J	7.9 J	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	3.4
Iron	µg/L	950	760	900	3500
Iron (dissolved)	µg/L	850	530	470	2500
Lead	µg/L	0.45 U	0.45 U	0.45 U	0.93 J
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	38000	18000	20000	39000
Magnesium (dissolved)	µg/L	37000	18000	18000	38000
Manganese	µg/L	26	15	18	110
Manganese (dissolved)	µg/L	21	7.0	6.4	86
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	2.1	22	22	2.7
Nickel (dissolved)	µg/L	2.3	19	19	1.5 U
Potassium	µg/L	7600	7600	7800	4800

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057	GW-38443-013018-KVM-058
	Sample Date:	1/29/2018	1/30/2018	1/30/2018	1/30/2018
	Sample Depth:	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	70-80 ft BGS
Parameters	**Units**				
Metals					
Potassium (dissolved)	µg/L	7700	8000	7900	4700
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	120000	500000	490000	53000
Sodium (dissolved)	µg/L	120000	520000	530000	54000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.83 J	1.0 J	1.3 J
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	260	120 J	140	200
Zinc (dissolved)	µg/L	240	160 J	110	150
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-
Pesticides					
4,4'-DDD	µg/L	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-
Aldrin	µg/L	-	-	-	-
alpha-BHC	µg/L	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-
beta-BHC	µg/L	-	-	-	-
delta-BHC	µg/L	-	-	-	-
Dieldrin	µg/L	-	-	-	-
Endosulfan I	µg/L	-	-	-	-
Endosulfan II	µg/L	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-
Endrin	µg/L	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057	GW-38443-013018-KVM-058
	Sample Date:	1/29/2018	1/30/2018	1/30/2018	1/30/2018
	Sample Depth:	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	70-80 ft BGS
Parameters	**Units**				
Pesticides					
Endrin ketone	µg/L	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-
Heptachlor	µg/L	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-
Methoxychlor	µg/L	-	-	-	-
Toxaphene	µg/L	-	-	-	-
General Chemistry					
Chloride	µg/L	170000	350000	340000	100000
Cyanide (total)	mg/L	-	-	-	-
Nitrate (as N)	µg/L	80 J	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	25000	350 U	350 U	68000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
BTEX - Benzene, Toluene, Ethylbenzene,and Xylene
PCBs - Polychlorinated Biphenyls

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-013118-KVM-059**	**GW-38443-013118-KVM-060**	**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**
Sample Date:		**1/31/2018**	**1/31/2018**	**2/1/2018**	**2/1/2018**
Sample Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-100 ft BGS**	**110-120 ft BGS**
Parameters	**Units**				
BTEX Volatiles					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 UJ	0.41 UJ	0.41 UJ
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	3.1	1.8	3.6	0.63 J
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-013118-KVM-059**	**GW-38443-013118-KVM-060**	**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**
Sample Date:		**1/31/2018**	**1/31/2018**	**2/1/2018**	**2/1/2018**
Sample Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-100 ft BGS**	**110-120 ft BGS**
Parameters	**Units**				
BTEX Volatiles					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.35 J	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.60 J	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-Volatiles					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-013118-KVM-059**	**GW-38443-013118-KVM-060**	**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**
Sample Date:		**1/31/2018**	**1/31/2018**	**2/1/2018**	**2/1/2018**
Sample Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-100 ft BGS**	**110-120 ft BGS**
Parameters	**Units**				
Semi-Volatiles					
Acenaphthene	µg/L	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-
Acetophenone	µg/L	-	-	-	-
Anthracene	µg/L	-	-	-	-
Atrazine	µg/L	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-
Caprolactam	µg/L	-	-	-	-
Carbazole	µg/L	-	-	-	-
Chrysene	µg/L	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-
Fluoranthene	µg/L	-	-	-	-
Fluorene	µg/L	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-
Isophorone	µg/L	-	-	-	-
Naphthalene	µg/L	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-013118-KVM-059	GW-38443-013118-KVM-060	GW-38443-020118-KVM-061	GW-38443-020118-KVM-062
	Sample Date:	1/31/2018	1/31/2018	2/1/2018	2/1/2018
	Sample Depth:	80-90 ft BGS	90-100 ft BGS	100-100 ft BGS	110-120 ft BGS
Parameters	**Units**				
Semi-Volatiles					
Phenanthrene	µg/L	-	-	-	-
Phenol	µg/L	-	-	-	-
Pyrene	µg/L	-	-	-	-
Metals					
Aluminum	µg/L	260	170	48 J	220
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	1.4 U	0.57 U	0.85 U	0.57 U
Antimony (dissolved)	µg/L	0.70 U	0.57 U	0.83 U	0.57 U
Arsenic	µg/L	4.9 J	4.9 J	5.6	4.6 J
Arsenic (dissolved)	µg/L	4.3 J	5.4	5.9	4.1 J
Barium	µg/L	140	130	110	110
Barium (dissolved)	µg/L	140	130	110	110
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.22 J	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	100000	100000	95000	100000
Calcium (dissolved)	µg/L	94000	100000	95000	99000
Chromium	µg/L	5.1	3.8	0.98 U	3.6
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.48 J	0.39 J	0.28 J	0.42 J
Cobalt (dissolved)	µg/L	0.21 J	0.28 J	0.31 J	0.19 U
Copper	µg/L	1.7 J	7.1	3.8	3.0
Copper (dissolved)	µg/L	1.7 U	1.7 U	4.1	1.7 U
Iron	µg/L	2400	1500	1400	3700
Iron (dissolved)	µg/L	1900	1300	1200	1700
Lead	µg/L	0.54 J	0.60 J	0.45 U	1.1
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	37000	36000	38000	38000
Magnesium (dissolved)	µg/L	36000	37000	38000	37000
Manganese	µg/L	100	110	110	140
Manganese (dissolved)	µg/L	93	100	110	110
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	3.7	2.9	1.5 U	2.1
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	4500	4800	5200	4400

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-013118-KVM-059	GW-38443-013118-KVM-060	GW-38443-020118-KVM-061	GW-38443-020118-KVM-062
	Sample Date:	1/31/2018	1/31/2018	2/1/2018	2/1/2018
	Sample Depth:	80-90 ft BGS	90-100 ft BGS	100-100 ft BGS	110-120 ft BGS
Parameters	**Units**				
Metals					
Potassium (dissolved)	µg/L	4400	4800	5100	4400
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	53000	52000	50000	50000
Sodium (dissolved)	µg/L	52000	52000	50000	50000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	210	140	250	130
Zinc (dissolved)	µg/L	170	130	250	120
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-
Pesticides					
4,4'-DDD	µg/L	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-
Aldrin	µg/L	-	-	-	-
alpha-BHC	µg/L	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-
beta-BHC	µg/L	-	-	-	-
delta-BHC	µg/L	-	-	-	-
Dieldrin	µg/L	-	-	-	-
Endosulfan I	µg/L	-	-	-	-
Endosulfan II	µg/L	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-
Endrin	µg/L	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-013118-KVM-059**	**GW-38443-013118-KVM-060**	**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**
Sample Date:		**1/31/2018**	**1/31/2018**	**2/1/2018**	**2/1/2018**
Sample Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-100 ft BGS**	**110-120 ft BGS**
Parameters	**Units**				
Pesticides					
Endrin ketone	µg/L	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-
Heptachlor	µg/L	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-
Methoxychlor	µg/L	-	-	-	-
Toxaphene	µg/L	-	-	-	-
General Chemistry					
Chloride	µg/L	100000	99000	95000	94000
Cyanide (total)	mg/L	-	-	-	-
Nitrate (as N)	µg/L	23 J	17 J	25 J	14 J
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	68000	70000	72000	71000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
BTEX - Benzene, Toluene, Ethylbenzene,and Xylene
PCBs - Polychlorinated Biphenyls

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-020518-KVM-063**	**GW-38443-020518-KVM-064**	**GW-038443-020618-KVM-065**
Sample Date:		**2/5/2018**	**2/5/2018**	**2/6/2018**
Sample Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Units**			
BTEX Volatiles				
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 UJ	1.8 UJ	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 UJ
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-020518-KVM-063	GW-38443-020518-KVM-064	GW-038443-020618-KVM-065
	Sample Date:	2/5/2018	2/5/2018	2/6/2018
	Sample Depth:	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS
Parameters	**Units**			
BTEX Volatiles				
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U
Semi-Volatiles				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-
2-Chloronaphthalene	µg/L	-	-	-
2-Chlorophenol	µg/L	-	-	-
2-Methylnaphthalene	µg/L	-	-	-
2-Methylphenol	µg/L	-	-	-
2-Nitroaniline	µg/L	-	-	-
2-Nitrophenol	µg/L	-	-	-
3&4-Methylphenol	µg/L	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-
3-Nitroaniline	µg/L	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-
4-Chloroaniline	µg/L	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-
4-Nitroaniline	µg/L	-	-	-
4-Nitrophenol	µg/L	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-020518-KVM-063	GW-38443-020518-KVM-064	GW-038443-020618-KVM-065
	Sample Date:	2/5/2018	2/5/2018	2/6/2018
	Sample Depth:	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS
Parameters	**Units**			
Semi-Volatiles				
Acenaphthene	µg/L	-	-	-
Acenaphthylene	µg/L	-	-	-
Acetophenone	µg/L	-	-	-
Anthracene	µg/L	-	-	-
Atrazine	µg/L	-	-	-
Benzaldehyde	µg/L	-	-	-
Benzo(a)anthracene	µg/L	-	-	-
Benzo(a)pyrene	µg/L	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-
Caprolactam	µg/L	-	-	-
Carbazole	µg/L	-	-	-
Chrysene	µg/L	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-
Dibenzofuran	µg/L	-	-	-
Diethyl phthalate	µg/L	-	-	-
Dimethyl phthalate	µg/L	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-
Fluoranthene	µg/L	-	-	-
Fluorene	µg/L	-	-	-
Hexachlorobenzene	µg/L	-	-	-
Hexachlorobutadiene	µg/L	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-
Hexachloroethane	µg/L	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-
Isophorone	µg/L	-	-	-
Naphthalene	µg/L	-	-	-
Nitrobenzene	µg/L	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-
Pentachlorophenol	µg/L	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-020518-KVM-063	GW-38443-020518-KVM-064	GW-038443-020618-KVM-065
	Sample Date:	2/5/2018	2/5/2018	2/6/2018
	Sample Depth:	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS
Parameters	**Units**			
Semi-Volatiles				
Phenanthrene	µg/L	-	-	-
Phenol	µg/L	-	-	-
Pyrene	µg/L	-	-	-
Metals				
Aluminum	µg/L	34 U	57	280
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	1.9 U	0.90 U	0.57 U
Antimony (dissolved)	µg/L	1.4 U	0.57 U	1.3 U
Arsenic	µg/L	5.0	4.7 J	2.3 U
Arsenic (dissolved)	µg/L	4.6 J	4.5 J	2.4 U
Barium	µg/L	110	110	100 U
Barium (dissolved)	µg/L	110	110	100 U
Beryllium	µg/L	0.42 J	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.28 J	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U
Calcium	µg/L	100000	110000	110000 U
Calcium (dissolved)	µg/L	100000	110000	110000 U
Chromium	µg/L	0.98 U	0.98 U	1.1 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.27 J	0.27 J	0.39 J
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.28 J
Copper	µg/L	4.8	1.7 U	4.1 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	8.6 U
Iron	µg/L	1600	1400	1400
Iron (dissolved)	µg/L	1500	1200	1200
Lead	µg/L	0.47 J	0.45 U	0.55 J
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.59 J
Magnesium	µg/L	41000	43000	35000 U
Magnesium (dissolved)	µg/L	40000	41000	36000 U
Manganese	µg/L	140	180	270
Manganese (dissolved)	µg/L	140	160	280
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	1.6 J
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U
Potassium	µg/L	4500	4500	3600 U

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Sample Location:	VAS-44	VAS-44	VAS-44
	Sample ID:	GW-38443-020518-KVM-063	GW-38443-020518-KVM-064	GW-038443-020618-KVM-065
	Sample Date:	2/5/2018	2/5/2018	2/6/2018
	Sample Depth:	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS
Parameters	**Units**			
Metals				
Potassium (dissolved)	µg/L	4500	4300	3600 U
Selenium	µg/L	1.0 J	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U
Sodium	µg/L	47000	42000	38000 U
Sodium (dissolved)	µg/L	46000	41000	40000 U
Thallium	µg/L	0.21 J	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	110	120	120
Zinc (dissolved)	µg/L	110	110	120
PCBs				
Aroclor-1016 (PCB-1016)	µg/L	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-
Pesticides				
4,4'-DDD	µg/L	-	-	-
4,4'-DDE	µg/L	-	-	-
4,4'-DDT	µg/L	-	-	-
Aldrin	µg/L	-	-	-
alpha-BHC	µg/L	-	-	-
alpha-Chlordane	µg/L	-	-	-
beta-BHC	µg/L	-	-	-
delta-BHC	µg/L	-	-	-
Dieldrin	µg/L	-	-	-
Endosulfan I	µg/L	-	-	-
Endosulfan II	µg/L	-	-	-
Endosulfan sulfate	µg/L	-	-	-
Endrin	µg/L	-	-	-
Endrin aldehyde	µg/L	-	-	-

Table 2A

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-020518-KVM-063**	**GW-38443-020518-KVM-064**	**GW-038443-020618-KVM-065**
Sample Date:		**2/5/2018**	**2/5/2018**	**2/6/2018**
Sample Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Units**			
Pesticides				
Endrin ketone	µg/L	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-
gamma-Chlordane	µg/L	-	-	-
Heptachlor	µg/L	-	-	-
Heptachlor epoxide	µg/L	-	-	-
Methoxychlor	µg/L	-	-	-
Toxaphene	µg/L	-	-	-
General Chemistry				
Chloride	µg/L	93000	85000	75000
Cyanide (total)	mg/L	-	-	-
Nitrate (as N)	µg/L	14 U	25 J	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	78000	88000	85000

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
- - Not applicable
BTEX - Benzene, Toluene, Ethylbenzene,and Xylene
PCBs - Polychlorinated Biphenyls

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-34	VAS-34	VAS-34	VAS-34
Sample Name:		GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081
Sample Date:		02/16/2018	02/16/2018	02/19/2018	02/19/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.58 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.80 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.85 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.63 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.68 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.68 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.65 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.75 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.75 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.80 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.58 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	2.6 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	3.1 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	1.8 U	0.71 U
Acetone	µg/L	1.8 UJ	1.8 U	4.4 UJ	1.8 UJ
Benzene	µg/L	0.28 U	0.28 U	0.71 J	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.75 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	1.1 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	1.1 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.85 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.88 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.80 U	0.32 U
Chloroethane	µg/L	0.41 UJ	0.41 UJ	1.0 UJ	0.41 UJ
Chloroform (Trichloromethane)	µg/L	0.70 J	0.60 J	0.78 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	1.1 U	0.43 U
cis-1,2-Dichloroethene	µg/L	1.0	5.0	27	4.8
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.65 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	1.1 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.63 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	1.3 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.65 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.53 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.60 U	0.24 U
Methyl acetate	µg/L	1.4 UJ	1.4 U	3.6 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	1.1 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.68 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	2.3 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.70 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.58 U	0.23 U

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081
	Sample Date:	02/16/2018	02/16/2018	02/19/2018	02/19/2018
Parameters	**Unit**				
Volatile Organic Compounds					
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.75 U	0.30 U
Toluene	µg/L	0.23 U	0.85 J	3.9	0.42 J
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 J	0.73 U	0.36 J
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.78 U	0.31 U
Trichloroethene	µg/L	7.0	18	57	21
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 UJ	1.3 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	1.0 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	1.1 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.60 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.38 U	--	--	0.38 U
2,4,5-Trichlorophenol	µg/L	0.29 U	--	--	0.29 U
2,4,6-Trichlorophenol	µg/L	0.23 U	--	--	0.23 U
2,4-Dichlorophenol	µg/L	0.18 U	--	--	0.18 U
2,4-Dimethylphenol	µg/L	0.24 U	--	--	0.24 U
2,4-Dinitrophenol	µg/L	0.30 U	--	--	0.30 U
2,4-Dinitrotoluene	µg/L	0.24 U	--	--	0.24 U
2,6-Dinitrotoluene	µg/L	0.76 U	--	--	0.76 U
2-Chloronaphthalene	µg/L	0.095 U	--	--	0.095 U
2-Chlorophenol	µg/L	0.28 U	--	--	0.28 U
2-Methylnaphthalene	µg/L	0.086 U	--	--	0.086 U
2-Methylphenol	µg/L	0.16 U	--	--	0.16 U
2-Nitroaniline	µg/L	0.20 U	--	--	0.20 U
2-Nitrophenol	µg/L	0.27 U	--	--	0.27 U
3&4-Methylphenol	µg/L	0.76 U	--	--	0.76 U
3,3'-Dichlorobenzidine	µg/L	0.35 U	--	--	0.35 U
3-Nitroaniline	µg/L	0.27 U	--	--	0.27 U
4,6-Dinitro-2-methylphenol	µg/L	2.3 U	--	--	2.3 U
4-Bromophenyl phenyl ether	µg/L	0.21 U	--	--	0.21 U
4-Chloro-3-methylphenol	µg/L	0.20 U	--	--	0.20 U
4-Chloroaniline	µg/L	0.20 U	--	--	0.20 U
4-Chlorophenyl phenyl ether	µg/L	0.29 U	--	--	0.29 U
4-Nitroaniline	µg/L	0.21 U	--	--	0.21 U
4-Nitrophenol	µg/L	0.28 U	--	--	0.28 U
Acenaphthene	µg/L	0.042 U	--	--	0.042 U
Acenaphthylene	µg/L	0.046 U	--	--	0.046 U
Acetophenone	µg/L	0.32 U	--	--	0.32 U
Anthracene	µg/L	0.084 U	--	--	0.084 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-34	VAS-34	VAS-34	VAS-34
Sample Name:		GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081
Sample Date:		02/16/2018	02/16/2018	02/19/2018	02/19/2018
Parameters	**Unit**				
Semivolatile Organic Compounds					
Atrazine	µg/L	0.32 U	--	--	0.32 U
Benzaldehyde	µg/L	0.37 U	--	--	0.37 U
Benzo(a)anthracene	µg/L	0.028 U	--	--	0.028 U
Benzo(a)pyrene	µg/L	0.049 U	--	--	0.049 U
Benzo(b)fluoranthene	µg/L	0.038 U	--	--	0.038 U
Benzo(g,h,i)perylene	µg/L	0.044 U	--	--	0.044 U
Benzo(k)fluoranthene	µg/L	0.043 U	--	--	0.043 U
Biphenyl (1,1-Biphenyl)	µg/L	0.12 U	--	--	0.12 U
bis(2-Chloroethoxy)methane	µg/L	0.30 U	--	--	0.30 U
bis(2-Chloroethyl)ether	µg/L	0.095 U	--	--	0.095 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.6 U	--	--	1.6 U
Butyl benzylphthalate (BBP)	µg/L	0.25 U	--	--	0.25 U
Caprolactam	µg/L	0.19 U	--	--	0.34 J
Carbazole	µg/L	0.27 U	--	--	0.27 U
Chrysene	µg/L	0.048 U	--	--	0.048 U
Di-n-butylphthalate (DBP)	µg/L	1.6 U	--	--	1.6 U
Di-n-octyl phthalate (DnOP)	µg/L	0.22 U	--	--	0.22 U
Dibenz(a,h)anthracene	µg/L	0.042 U	--	--	0.042 U
Dibenzofuran	µg/L	0.019 U	--	--	0.019 U
Diethyl phthalate	µg/L	0.57 U	--	--	0.57 U
Dimethyl phthalate	µg/L	0.28 U	--	--	0.28 U
Fluoranthene	µg/L	0.042 U	--	--	0.042 U
Fluorene	µg/L	0.039 U	--	--	0.039 U
Hexachlorobenzene	µg/L	0.081 U	--	--	0.081 U
Hexachlorobutadiene	µg/L	0.26 U	--	--	0.26 U
Hexachlorocyclopentadiene	µg/L	0.23 U	--	--	0.23 U
Hexachloroethane	µg/L	0.18 U	--	--	0.18 U
Indeno(1,2,3-cd)pyrene	µg/L	0.041 U	--	--	0.041 U
Isophorone	µg/L	0.26 U	--	--	0.26 U
N-Nitrosodi-n-propylamine	µg/L	0.23 U	--	--	0.23 U
N-Nitrosodiphenylamine	µg/L	0.30 U	--	--	0.30 U
Naphthalene	µg/L	0.060 U	--	--	0.060 U
Nitrobenzene	µg/L	0.038 U	--	--	0.038 U
Pentachlorophenol	µg/L	0.26 U	--	--	0.26 U
Phenanthrene	µg/L	0.059 U	--	--	0.059 U
Phenol	µg/L	0.57 U	--	--	0.57 U
Pyrene	µg/L	0.040 U	--	--	0.040 U

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081
	Sample Date:	02/16/2018	02/16/2018	02/19/2018	02/19/2018
Parameters	**Unit**				
Pesticides/PCBs					
4,4'-DDD	µg/L	0.017 U	--	--	0.017 U
4,4'-DDE	µg/L	0.011 U	--	--	0.011 U
4,4'-DDT	µg/L	0.016 U	--	--	0.016 U
Aldrin	µg/L	0.012 U	--	--	0.012 U
alpha-BHC	µg/L	0.013 U	--	--	0.013 U
alpha-Chlordane	µg/L	0.011 U	--	--	0.011 U
Aroclor-1016 (PCB-1016)	µg/L	0.049 U	--	--	0.048 U
Aroclor-1221 (PCB-1221)	µg/L	0.087 UJ	--	--	0.086 UJ
Aroclor-1232 (PCB-1232)	µg/L	0.068 U	--	--	0.067 U
Aroclor-1242 (PCB-1242)	µg/L	0.058 U	--	--	0.057 U
Aroclor-1248 (PCB-1248)	µg/L	0.049 U	--	--	0.048 U
Aroclor-1254 (PCB-1254)	µg/L	0.029 UJ	--	--	0.029 UJ
Aroclor-1260 (PCB-1260)	µg/L	0.039 U	--	--	0.038 U
beta-BHC	µg/L	0.017 U	--	--	0.017 U
delta-BHC	µg/L	0.028 U	--	--	0.028 U
Dieldrin	µg/L	0.012 U	--	--	0.012 U
Endosulfan I	µg/L	0.015 U	--	--	0.015 U
Endosulfan II	µg/L	0.014 U	--	--	0.014 U
Endosulfan sulfate	µg/L	0.014 U	--	--	0.014 U
Endrin	µg/L	0.012 U	--	--	0.012 U
Endrin aldehyde	µg/L	0.017 U	--	--	0.017 U
Endrin ketone	µg/L	0.015 U	--	--	0.015 U
gamma-BHC (lindane)	µg/L	0.012 U	--	--	0.012 U
gamma-Chlordane	µg/L	0.012 U	--	--	0.012 U
Heptachlor	µg/L	0.013 U	--	--	0.013 U
Heptachlor epoxide	µg/L	0.014 U	--	--	0.014 U
Methoxychlor	µg/L	0.012 U	--	--	0.012 U
Toxaphene	µg/L	0.19 U	--	--	0.19 U

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081
	Sample Date:	02/16/2018	02/16/2018	02/19/2018	02/19/2018
Parameters	**Unit**				
Metals					
Aluminum	µg/L	39 J	270	5400	120
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	2.3	0.57 U	0.77 J	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	0.75 U	2.7 J	33	0.75 U
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	0.75 U
Barium	µg/L	120	120	250	110
Barium (dissolved)	µg/L	120	120	150	100
Beryllium	µg/L	0.31 U	0.31 U	0.31 J	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.22 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	130000	130000	280000	130000
Calcium (dissolved)	µg/L	120000	130000	120000	120000
Chromium	µg/L	0.98 U	1.4 J	18	1.3 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	3.3	5.2	6.2	1.1
Cobalt (dissolved)	µg/L	3.1	4.9	1.8	0.93 J
Copper	µg/L	2.0 J	13	90	3.3
Copper (dissolved)	µg/L	20 J	10	1.8 J	1.9 J
Iron	µg/L	430	1200	22000	590
Iron (dissolved)	µg/L	210	76 J	330	130
Lead	µg/L	0.45 U	0.91 J	21	0.63 J
Lead (dissolved)	µg/L	1.1	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	43000	49000	130000	46000
Magnesium (dissolved)	µg/L	43000	48000	62000	45000
Manganese	µg/L	830	780	980	820
Manganese (dissolved)	µg/L	820	770	450	760
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	2.7	17	2.5
Nickel (dissolved)	µg/L	1.5 U	2.2	3.8	2.0
Potassium	µg/L	9600	11000	15000	8900
Potassium (dissolved)	µg/L	9500	10000	14000	8500
Selenium	µg/L	25	22	4.9 J	13
Selenium (dissolved)	µg/L	24	22	3.7 J	13
Silver	µg/L	0.053 U	0.053 U	0.072 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	130000	130000	100000	120000

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081
	Sample Date:	02/16/2018	02/16/2018	02/19/2018	02/19/2018
Parameters	**Unit**				
Metals					
Sodium (dissolved)	µg/L	130000	130000	110000	110000
Thallium	µg/L	0.20 U	0.20 U	0.20 J	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	14	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	160	1300	4700	720
Zinc (dissolved)	µg/L	110	1400	4400	690
General Chemistry					
Cyanide (total)	mg/L	0.58	--	--	0.0060 U
Chloride	µg/L	200000	210000	180000	180000
Nitrate (as N)	µg/L	2200	2100	480	760
Nitrite (as N)	µg/L	35 J	88 J	14 U	17 J
Sulfate	µg/L	81000	80000	85000	85000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
-- Not applicable
UJ - Not detected; associated reporting limit is estimated

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-34	VAS-34	VAS-34	VAS-34
Sample Name:		GW-38443-022018-JC-082	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085
Sample Date:		02/20/2018	02/20/2018	02/20/2018	02/21/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.46 U	2.3 U	1.5 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.64 U	3.2 U	2.1 UJ
1,1,2-Trichloroethane	µg/L	0.34 U	0.68 U	3.4 U	2.3 U
1,1-Dichloroethane	µg/L	0.28 J	0.50 U	2.5 U	1.7 U
1,1-Dichloroethene	µg/L	0.27 U	0.54 U	2.7 U	1.8 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.54 U	2.7 U	1.8 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.52 U	2.6 U	1.7 U
1,2-Dichloroethane	µg/L	0.30 U	0.60 U	3.0 U	2.0 U
1,2-Dichloropropane	µg/L	0.30 U	0.60 U	3.0 U	2.0 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.64 U	3.2 U	2.1 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.46 U	2.3 U	1.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	2.0 U	10 U	6.8 U
2-Hexanone	µg/L	1.2 U	2.5 U	12 U	8.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	1.4 U	7.1 U	4.7 U
Acetone	µg/L	1.8 U	3.5 U	18 U	110 U
Benzene	µg/L	0.28 U	0.56 U	2.8 U	1.9 U
Bromodichloromethane	µg/L	0.30 U	0.60 U	3.0 U	2.0 U
Bromoform	µg/L	0.43 U	0.86 U	4.3 U	2.9 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.84 UJ	4.2 UJ	2.8 U
Carbon disulfide	µg/L	1.2	0.85 J	3.4 U	2.3 U
Carbon tetrachloride	µg/L	0.35 U	0.70 U	3.5 U	2.3 U
Chlorobenzene	µg/L	0.32 U	0.64 U	3.2 U	2.1 U
Chloroethane	µg/L	0.41 U	0.82 U	4.1 U	2.7 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.62 U	3.1 U	2.1 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.86 U	4.3 U	2.9 U
cis-1,2-Dichloroethene	µg/L	15	53	78	71
cis-1,3-Dichloropropene	µg/L	0.26 U	0.52 U	2.6 U	1.7 U
Cyclohexane	µg/L	0.44 U	0.88 U	4.4 U	2.9 U
Dibromochloromethane	µg/L	0.25 U	0.50 U	2.5 U	1.7 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	1.0 U	5.0 U	3.3 U
Ethylbenzene	µg/L	0.26 U	0.52 U	2.6 U	1.7 U
Isopropyl benzene	µg/L	0.21 U	0.42 U	2.1 U	1.4 U
m&p-Xylenes	µg/L	0.24 U	0.48 U	2.4 U	1.6 U
Methyl acetate	µg/L	1.4 U	2.9 U	14 U	9.5 U
Methyl cyclohexane	µg/L	0.45 U	0.90 U	4.5 U	3.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.54 U	2.7 U	1.8 U
Methylene chloride	µg/L	0.53 U	2.0	9.8 J	5.8 U
o-Xylene	µg/L	0.28 U	0.56 U	2.8 U	1.9 U
Styrene	µg/L	0.23 U	0.46 U	2.3 U	1.5 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-34	VAS-34	VAS-34	VAS-34
Sample Name:		GW-38443-022018-JC-082	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085
Sample Date:		02/20/2018	02/20/2018	02/20/2018	02/21/2018
Parameters	**Unit**				
Volatile Organic Compounds					
Tetrachloroethene	µg/L	0.30 U	0.60 U	3.0 U	2.0 U
Toluene	µg/L	0.23 U	0.46 U	2.3 U	1.5 UJ
trans-1,2-Dichloroethene	µg/L	0.74 J	1.4 J	2.9 U	1.9 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.62 U	3.1 U	2.1 U
Trichloroethene	µg/L	7.1	0.72 J	3.3 U	2.2 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	1.0 U	5.0 U	3.3 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.82 U	4.1 U	2.7 UJ
Vinyl chloride	µg/L	0.45 U	2.3	110	64
Xylenes (total)	µg/L	0.24 U	0.48 U	2.4 U	1.6 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-022018-JC-082	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085
	Sample Date:	02/20/2018	02/20/2018	02/20/2018	02/21/2018
Parameters	**Unit**				
Semivolatile Organic Compounds					
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-022018-JC-082	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085
	Sample Date:	02/20/2018	02/20/2018	02/20/2018	02/21/2018
Parameters	**Unit**				
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-022018-JC-082	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085
	Sample Date:	02/20/2018	02/20/2018	02/20/2018	02/21/2018
Parameters	**Unit**				
Metals					
Aluminum	µg/L	34 U	54	580	34 J
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	3.1	1.6 J	0.57 U	1.7 J
Antimony (dissolved)	µg/L	2.1	1.5 J	0.57 U	1.1 J
Arsenic	µg/L	0.75 U	2.9 J	6.2	4.1 J
Arsenic (dissolved)	µg/L	1.0 J	2.9 J	5.4	4.9 J
Barium	µg/L	100	110	93	99
Barium (dissolved)	µg/L	100	110	84	97
Beryllium	µg/L	0.37 J	0.31 U	0.31 U	0.45 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.23 J	0.21 U	0.21 U	0.29 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	120000	110000	99000
Calcium (dissolved)	µg/L	120000	120000	100000	100000
Chromium	µg/L	0.98 U	0.98 U	6.1	1.1 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.74 J	0.39 J	0.76 J	0.41 J
Cobalt (dissolved)	µg/L	0.61 J	0.35 J	0.19 U	0.29 J
Copper	µg/L	1.7 U	1.7 U	3.3	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	5.5 U
Iron	µg/L	2000	1300	6500	6100
Iron (dissolved)	µg/L	1700	1100	2900	2500
Lead	µg/L	0.58 J	0.45 U	1.3	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	46000	49000	42000	38000
Magnesium (dissolved)	µg/L	46000	48000	37000	38000
Manganese	µg/L	790	420	210	190
Manganese (dissolved)	µg/L	790	400	160	180
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	2.2	2.2	3.0	2.0
Nickel (dissolved)	µg/L	2.0	2.1	1.5 U	1.5 U
Potassium	µg/L	7700	7400	8200	8400
Potassium (dissolved)	µg/L	7700	7300	8000	8600
Selenium	µg/L	1.0 J	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	99000	78000	53000	50000

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-34**	**VAS-34**	**VAS-34**	**VAS-34**
Sample Name:		**GW-38443-022018-JC-082**	**GW-38443-022018-JC-083**	**GW-38443-022018-JC-084**	**GW-38443-022118-JC-085**
Sample Date:		**02/20/2018**	**02/20/2018**	**02/20/2018**	**02/21/2018**
Parameters	**Unit**				
Metals					
Sodium (dissolved)	µg/L	100000	76000	53000	51000
Thallium	µg/L	0.21 J	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	1.8 J	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	590	86	370	470
Zinc (dissolved)	µg/L	580	72	340	450
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	170000	150000	85000	79000
Nitrate (as N)	µg/L	46 J	44 J	28 J	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	85000	85000	77000	76000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
-- Not applicable
UJ - Not detected; associated reporting limit is estimated

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-34	VAS-34	VAS-34	VAS-34
Sample Name:		GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090
Sample Date:		02/21/2018	02/21/2018	02/21/2018 Duplicate	02/22/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.58 U	0.38 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.80 UJ	0.53 UJ	0.32 UJ	0.32 U
1,1,2-Trichloroethane	µg/L	0.85 U	0.57 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.63 U	0.42 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.68 U	0.45 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.68 U	0.45 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.65 U	0.43 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.75 U	0.50 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.75 U	0.50 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.80 U	0.53 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.58 U	0.38 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	2.6 U	1.7 U	1.0 U	1.0 U
2-Hexanone	µg/L	3.1 U	2.1 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1.8 U	1.2 U	0.71 U	0.71 U
Acetone	µg/L	4.4 U	2.9 U	1.8 U	1.8 UJ
Benzene	µg/L	0.70 U	0.47 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.75 U	0.50 U	0.30 U	0.30 U
Bromoform	µg/L	1.1 U	0.72 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	1.1 U	0.70 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.85 U	0.57 U	0.34 U	0.60 J
Carbon tetrachloride	µg/L	0.88 U	0.58 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.80 U	0.53 U	0.32 U	0.32 U
Chloroethane	µg/L	1.0 U	0.68 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.78 U	0.52 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	1.1 U	0.72 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	48	19	21	2.6
cis-1,3-Dichloropropene	µg/L	0.65 U	0.43 U	0.26 U	0.26 U
Cyclohexane	µg/L	1.1 U	0.73 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.63 U	0.42 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.3 U	0.84 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.65 U	0.43 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.53 U	0.35 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.60 U	0.40 U	0.24 U	0.24 U
Methyl acetate	µg/L	3.6 U	2.4 U	1.4 U	1.4 UJ
Methyl cyclohexane	µg/L	1.1 U	0.75 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.68 U	0.45 U	0.27 U	0.27 U
Methylene chloride	µg/L	2.4 U	2.3 U	0.53 U	0.53 U
o-Xylene	µg/L	0.70 U	0.47 U	0.28 U	0.28 U
Styrene	µg/L	0.58 U	0.38 U	0.23 U	0.23 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-34	VAS-34	VAS-34	VAS-34
Sample Name:		GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090
Sample Date:		02/21/2018	02/21/2018	02/21/2018 Duplicate	02/22/2018
Parameters	**Unit**				
Volatile Organic Compounds					
Tetrachloroethene	µg/L	0.75 U	0.50 U	0.30 U	0.30 U
Toluene	µg/L	0.69 J	0.52 J	0.53 J	0.23 U
trans-1,2-Dichloroethene	µg/L	0.73 U	0.48 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.78 U	0.52 U	0.31 U	0.31 U
Trichloroethene	µg/L	4.1	0.79 J	0.90 J	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	1.3 U	0.84 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 UJ	0.68 UJ	0.41 UJ	0.41 U
Vinyl chloride	µg/L	39	14	17	2.8
Xylenes (total)	µg/L	0.60 U	0.40 U	0.24 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090
	Sample Date:	02/21/2018	02/21/2018	02/21/2018 Duplicate	02/22/2018
Parameters	**Unit**				
Semivolatile Organic Compounds					
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090
	Sample Date:	02/21/2018	02/21/2018	02/21/2018 Duplicate	02/22/2018
Parameters	**Unit**				
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-34	VAS-34	VAS-34	VAS-34
Sample Name:		GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090
Sample Date:		02/21/2018	02/21/2018	02/21/2018 Duplicate	02/22/2018
Parameters	**Unit**				
Metals					
Aluminum	µg/L	1900	680	570	93
Aluminum (dissolved)	µg/L	55	34 U	34 U	34 U
Antimony	µg/L	1.2 J	0.70 J	0.70 J	1.8 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	1.5 J
Arsenic	µg/L	5.6	3.8 J	3.6 J	1.2 J
Arsenic (dissolved)	µg/L	3.3 J	2.8 J	3.2 J	2.1 J
Barium	µg/L	140	88	84	84
Barium (dissolved)	µg/L	91	73	74	77
Beryllium	µg/L	0.44 J	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.28 J	0.21 U	0.21 U	0.31 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	100000	98000	97000	97000
Calcium (dissolved)	µg/L	86000	85000	90000	96000
Chromium	µg/L	11	25	22	1.9 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	2.2	1.0	0.90 J	0.59 J
Cobalt (dissolved)	µg/L	0.44 J	0.21 J	0.20 J	0.31 J
Copper	µg/L	30	23 J	11 U	1.7 U
Copper (dissolved)	µg/L	3.9 U	1.7 U	4.1 U	1.7 J
Iron	µg/L	7900	10000	9300	11000
Iron (dissolved)	µg/L	2100	1800	1900	2400
Lead	µg/L	40	11	8.6	0.53 J
Lead (dissolved)	µg/L	1.5	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	41000	39000	38000	40000
Magnesium (dissolved)	µg/L	35000	35000	37000	39000
Manganese	µg/L	240	260	240	240
Manganese (dissolved)	µg/L	170	160	170	200
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	6.8	5.6	5.0	3.9
Nickel (dissolved)	µg/L	1.5 J	1.5 U	1.5 U	1.5 J
Potassium	µg/L	7700	6400	6200	5800
Potassium (dissolved)	µg/L	7200	5900	6400	5800
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.074 J	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	43000	39000	39000	36000

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-34
	Sample Name:	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090
	Sample Date:	02/21/2018	02/21/2018	02/21/2018 Duplicate	02/22/2018
Parameters	**Unit**				
Metals					
Sodium (dissolved)	µg/L	43000	38000	41000	36000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	4.7 J	2.3 J	2.2 J	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	400	350	340	600
Zinc (dissolved)	µg/L	300	250	270	530
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	69000	63000	63000	69000
Nitrate (as N)	µg/L	64 J	49 J	48 J	22 J
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	76000	77000	77000	78000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
-- Not applicable
UJ - Not detected; associated reporting limit is estimated

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-34**	**VAS-34**	**VAS-34**	**VAS-38**
Sample Name:		**GW-38443-022218-JC-091**	**GW-38443-022218-JC-092**	**GW-38443-022318-JC-094**	**GW-038443-020718-KVM-066**
Sample Date:		**02/22/2018**	**02/22/2018**	**02/23/2018**	**02/07/2018**
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 UJ
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 UJ	1.8 UJ	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	1.1	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 UJ	0.43 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.37 J	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 UJ	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.69 J
Chloroform (Trichloromethane)	µg/L	1.8	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	3.0	5.2	2.1	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.85 J	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 UJ	1.4 UJ	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.36 J	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-34**	**VAS-34**	**VAS-34**	**VAS-38**
Sample Name:		**GW-38443-022218-JC-091**	**GW-38443-022218-JC-092**	**GW-38443-022318-JC-094**	**GW-038443-020718-KVM-066**
Sample Date:		**02/22/2018**	**02/22/2018**	**02/23/2018**	**02/07/2018**
Parameters	**Unit**				
Volatile Organic Compounds					
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.24 J	0.23 J	0.23 U	0.50 J
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	3.6	4.1	2.4	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	0.41 U
2,4,5-Trichlorophenol	µg/L	--	--	--	0.31 U
2,4,6-Trichlorophenol	µg/L	--	--	--	0.24 U
2,4-Dichlorophenol	µg/L	--	--	--	0.19 U
2,4-Dimethylphenol	µg/L	--	--	--	0.26 U
2,4-Dinitrophenol	µg/L	--	--	--	0.33 U
2,4-Dinitrotoluene	µg/L	--	--	--	0.26 U
2,6-Dinitrotoluene	µg/L	--	--	--	0.82 U
2-Chloronaphthalene	µg/L	--	--	--	0.10 U
2-Chlorophenol	µg/L	--	--	--	0.30 U
2-Methylnaphthalene	µg/L	--	--	--	0.092 U
2-Methylphenol	µg/L	--	--	--	0.17 U
2-Nitroaniline	µg/L	--	--	--	0.21 U
2-Nitrophenol	µg/L	--	--	--	0.29 U
3&4-Methylphenol	µg/L	--	--	--	0.82 U
3,3'-Dichlorobenzidine	µg/L	--	--	--	0.38 U
3-Nitroaniline	µg/L	--	--	--	0.29 U
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	2.4 U
4-Bromophenyl phenyl ether	µg/L	--	--	--	0.22 U
4-Chloro-3-methylphenol	µg/L	--	--	--	0.21 U
4-Chloroaniline	µg/L	--	--	--	0.21 U
4-Chlorophenyl phenyl ether	µg/L	--	--	--	0.31 U
4-Nitroaniline	µg/L	--	--	--	0.22 U
4-Nitrophenol	µg/L	--	--	--	0.30 U
Acenaphthene	µg/L	--	--	--	0.045 U
Acenaphthylene	µg/L	--	--	--	0.049 U
Acetophenone	µg/L	--	--	--	0.35 U
Anthracene	µg/L	--	--	--	0.090 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-34	VAS-34	VAS-34	VAS-38
	Sample Name:	GW-38443-022218-JC-091	GW-38443-022218-JC-092	GW-38443-022318-JC-094	GW-038443-020718-KVM-066
	Sample Date:	02/22/2018	02/22/2018	02/23/2018	02/07/2018
Parameters	**Unit**				
Semivolatile Organic Compounds					
Atrazine	µg/L	--	--	--	0.35 U
Benzaldehyde	µg/L	--	--	--	0.40 U
Benzo(a)anthracene	µg/L	--	--	--	0.030 U
Benzo(a)pyrene	µg/L	--	--	--	0.052 U
Benzo(b)fluoranthene	µg/L	--	--	--	0.040 U
Benzo(g,h,i)perylene	µg/L	--	--	--	0.047 U
Benzo(k)fluoranthene	µg/L	--	--	--	0.046 U
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	0.13 U
bis(2-Chloroethoxy)methane	µg/L	--	--	--	0.33 U
bis(2-Chloroethyl)ether	µg/L	--	--	--	0.10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	1.7 U
Butyl benzylphthalate (BBP)	µg/L	--	--	--	0.27 U
Caprolactam	µg/L	--	--	--	0.20 U
Carbazole	µg/L	--	--	--	0.29 U
Chrysene	µg/L	--	--	--	0.051 U
Di-n-butylphthalate (DBP)	µg/L	--	--	--	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	0.23 U
Dibenz(a,h)anthracene	µg/L	--	--	--	0.046 U
Dibenzofuran	µg/L	--	--	--	0.020 U
Diethyl phthalate	µg/L	--	--	--	0.68 J
Dimethyl phthalate	µg/L	--	--	--	0.30 U
Fluoranthene	µg/L	--	--	--	0.046 U
Fluorene	µg/L	--	--	--	0.041 U
Hexachlorobenzene	µg/L	--	--	--	0.087 U
Hexachlorobutadiene	µg/L	--	--	--	0.28 U
Hexachlorocyclopentadiene	µg/L	--	--	--	0.24 U
Hexachloroethane	µg/L	--	--	--	0.19 U
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	0.044 U
Isophorone	µg/L	--	--	--	0.28 U
N-Nitrosodi-n-propylamine	µg/L	--	--	--	0.24 U
N-Nitrosodiphenylamine	µg/L	--	--	--	0.32 U
Naphthalene	µg/L	--	--	--	0.064 U
Nitrobenzene	µg/L	--	--	--	0.041 U
Pentachlorophenol	µg/L	--	--	--	0.28 U
Phenanthrene	µg/L	--	--	--	0.063 U
Phenol	µg/L	--	--	--	0.61 U
Pyrene	µg/L	--	--	--	0.043 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-34**	**VAS-34**	**VAS-34**	**VAS-38**
Sample Name:		**GW-38443-022218-JC-091**	**GW-38443-022218-JC-092**	**GW-38443-022318-JC-094**	**GW-038443-020718-KVM-066**
Sample Date:		**02/22/2018**	**02/22/2018**	**02/23/2018**	**02/07/2018**
Parameters	**Unit**				
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	0.018 U
4,4'-DDE	µg/L	--	--	--	0.012 U
4,4'-DDT	µg/L	--	--	--	0.017 U
Aldrin	µg/L	--	--	--	0.013 U
alpha-BHC	µg/L	--	--	--	0.014 U
alpha-Chlordane	µg/L	--	--	--	0.012 U
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	0.052 U
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	0.094 U
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	0.073 U
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	0.063 U
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	0.052 U
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	0.031 U
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	0.042 U
beta-BHC	µg/L	--	--	--	0.018 U
delta-BHC	µg/L	--	--	--	0.029 U
Dieldrin	µg/L	--	--	--	0.013 U
Endosulfan I	µg/L	--	--	--	0.016 U
Endosulfan II	µg/L	--	--	--	0.015 U
Endosulfan sulfate	µg/L	--	--	--	0.015 U
Endrin	µg/L	--	--	--	0.013 U
Endrin aldehyde	µg/L	--	--	--	0.018 U
Endrin ketone	µg/L	--	--	--	0.016 U
gamma-BHC (lindane)	µg/L	--	--	--	0.013 U
gamma-Chlordane	µg/L	--	--	--	0.013 U
Heptachlor	µg/L	--	--	--	0.014 U
Heptachlor epoxide	µg/L	--	--	--	0.015 U
Methoxychlor	µg/L	--	--	--	0.013 U
Toxaphene	µg/L	--	--	--	0.19 U

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-34**	**VAS-34**	**VAS-34**	**VAS-38**
Sample Name:		**GW-38443-022218-JC-091**	**GW-38443-022218-JC-092**	**GW-38443-022318-JC-094**	**GW-038443-020718-KVM-066**
Sample Date:		**02/22/2018**	**02/22/2018**	**02/23/2018**	**02/07/2018**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	3800	980	37 J	6200
Aluminum (dissolved)	µg/L	410	130	34 U	34 U
Antimony	µg/L	1.1 J	0.60 J	0.57 U	2.3
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	1.5 J
Arsenic	µg/L	4.7 J	4.1 J	2.2 J	23
Arsenic (dissolved)	µg/L	1.7 J	2.7 J	2.3 J	16
Barium	µg/L	120	120	120 U	500
Barium (dissolved)	µg/L	81	110	130 U	460
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.58 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.28 J	0.21 U	0.21 U	0.38 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	110000	95000 U	110000
Calcium (dissolved)	µg/L	82000	99000	96000 U	83000
Chromium	µg/L	39	31	0.98 U	36
Chromium (dissolved)	µg/L	4.5	4.7	0.98 U	0.98 U
Cobalt	µg/L	4.4	1.4	0.19 U	4.7
Cobalt (dissolved)	µg/L	1.0	0.35 J	0.19 U	0.76 J
Copper	µg/L	36	13	2.7 U	24
Copper (dissolved)	µg/L	6.2	4.4	1.7 U	1.7 U
Iron	µg/L	26000	13000	2800	19000
Iron (dissolved)	µg/L	4300	4000	2700	6800
Lead	µg/L	10	3.2	0.45 U	14
Lead (dissolved)	µg/L	1.3	0.64 J	0.45 U	0.45 U
Magnesium	µg/L	51000	44000	39000 U	58000
Magnesium (dissolved)	µg/L	37000	41000	40000 U	47000
Manganese	µg/L	690	420	260	1300
Manganese (dissolved)	µg/L	400	320	260	260
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	17	6.4	1.5 U	13
Nickel (dissolved)	µg/L	5.6	2.5	1.5 U	1.5 U
Potassium	µg/L	6800	7800	8000 U	17000
Potassium (dissolved)	µg/L	5700	7800	8000 U	16000
Selenium	µg/L	1.0 J	0.89 U	0.89 U	1.6 J
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	33000	32000	37000 U	30000

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-34**	**VAS-34**	**VAS-34**	**VAS-38**
Sample Name:		**GW-38443-022218-JC-091**	**GW-38443-022218-JC-092**	**GW-38443-022318-JC-094**	**GW-038443-020718-KVM-066**
Sample Date:		**02/22/2018**	**02/22/2018**	**02/23/2018**	**02/07/2018**
Parameters	**Unit**				
Metals					
Sodium (dissolved)	µg/L	33000	32000	37000 U	31000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.40 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	12	4.3 J	0.82 U	14
Vanadium (dissolved)	µg/L	1.2 J	0.82 U	0.82 U	0.82 U
Zinc	µg/L	260	330	230	360
Zinc (dissolved)	µg/L	88	240	220	260
General Chemistry					
Cyanide (total)	mg/L	--	--	--	0.0060 U
Chloride	µg/L	74000	76000	76000 U	22000
Nitrate (as N)	µg/L	420	45 J	1600 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	69000	79000	81000 U	3700
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
-- Not applicable
UJ - Not detected; associated reporting limit is estimated

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-38	VAS-38	VAS-38	VAS-38
Sample Name:		GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070
Sample Date:		02/07/2018	02/07/2018	02/07/2018	02/07/2018
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.47 J	0.48 J	2.0	0.72 J
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.2 J
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.36 J	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 UJ	0.43 UJ	0.43 UJ	0.43 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.36 J
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.32 J	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.32 J	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-38	VAS-38	VAS-38	VAS-38
Sample Name:		GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070
Sample Date:		02/07/2018	02/07/2018	02/07/2018	02/07/2018
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds					
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	1.1	0.82 J	0.83 J	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-38	VAS-38	VAS-38	VAS-38
	Sample Name:	GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070
	Sample Date:	02/07/2018	02/07/2018 Duplicate	02/07/2018	02/07/2018
Parameters	**Unit**				
Semivolatile Organic Compounds					
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-38	VAS-38	VAS-38	VAS-38
	Sample Name:	GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070
	Sample Date:	02/07/2018	02/07/2018 Duplicate	02/07/2018	02/07/2018
Parameters	**Unit**				
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-38	VAS-38	VAS-38	VAS-38
	Sample Name:	GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070
	Sample Date:	02/07/2018	02/07/2018	02/07/2018	02/07/2018
			Duplicate		
Parameters	**Unit**				
Metals					
Aluminum	µg/L	15000 J	5600 J	2300	1300
Aluminum (dissolved)	µg/L	110 J	430 J	580	280
Antimony	µg/L	1.2 J	1.1 J	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.74 J	0.57 U	0.57 U
Arsenic	µg/L	21 J	9.2 J	7.5	11
Arsenic (dissolved)	µg/L	3.4 J	3.5 J	5.8	11
Barium	µg/L	540	420	450	730
Barium (dissolved)	µg/L	370	360	410	700
Beryllium	µg/L	0.90 J	0.41 J	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.40 J	0.25 J	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	220000 J	120000 J	86000	80000
Calcium (dissolved)	µg/L	78000	76000	76000	67000
Chromium	µg/L	35 J	13 J	4.0	3.5
Chromium (dissolved)	µg/L	0.98 U	1.3 J	1.3 J	0.98 U
Cobalt	µg/L	14 J	5.4 J	2.4	1.3
Cobalt (dissolved)	µg/L	1.7	1.9	1.5	0.59 J
Copper	µg/L	58 J	18 J	7.9	12
Copper (dissolved)	µg/L	7.0 J	2.6 J	6.0	2.5
Iron	µg/L	35000 J	11000 J	4500	3700
Iron (dissolved)	µg/L	710 J	1500 J	1600	1600
Lead	µg/L	27 J	6.6 J	2.0	2.1
Lead (dissolved)	µg/L	0.64 J	0.89 J	0.80 J	0.45 J
Magnesium	µg/L	95000	58000	49000	49000
Magnesium (dissolved)	µg/L	46000	44000	44000	43000
Manganese	µg/L	1000 J	410 J	170	55
Manganese (dissolved)	µg/L	210	210	140	29
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	36 J	14 J	6.1	3.9
Nickel (dissolved)	µg/L	3.0	3.4	3.1	1.7 J
Potassium	µg/L	17000	14000	14000	17000
Potassium (dissolved)	µg/L	13000	12000	13000	16000
Selenium	µg/L	3.1 J	1.2 J	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.060 J	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	31000	31000	34000	35000

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-38	VAS-38	VAS-38	VAS-38
Sample Name:		GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070
Sample Date:		02/07/2018	02/07/2018 Duplicate	02/07/2018	02/07/2018
Parameters	**Unit**				
Metals					
Sodium (dissolved)	µg/L	33000	31000	34000	33000
Thallium	µg/L	0.58 J	0.26 J	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	37 J	14 J	5.2	3.5 J
Vanadium (dissolved)	µg/L	0.82 U	1.2 J	1.5 J	0.82 U
Zinc	µg/L	560 J	290 J	360	300
Zinc (dissolved)	µg/L	240	220	350	100
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	25000	24000	24000	21000
Nitrate (as N)	µg/L	45 J	38 J	29 J	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	6400	6000	3900	2300
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
-- Not applicable
UJ - Not detected; associated reporting limit is estimated

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-38	VAS-38	VAS-38	VAS-38
Sample Name:		GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		02/08/2018	02/08/2018	02/08/2018	02/09/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	5.8 U	15 J	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	8.0 U	13 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	8.5 U	14 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	13 J	23 J	1.1
1,1-Dichloroethene	µg/L	0.27 U	6.8 U	11 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	6.8 UJ	11 UJ	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	6.5 U	10 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	7.5 U	12 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	7.5 U	12 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	8.0 U	13 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	5.8 U	9.2 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	26 U	41 U	1.0 U
2-Hexanone	µg/L	1.2 U	31 U	49 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	18 U	28 U	0.71 U
Acetone	µg/L	1.8 UJ	44 UJ	70 UJ	1.8 U
Benzene	µg/L	0.28 U	7.0 U	11 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	7.5 U	12 U	0.30 U
Bromoform	µg/L	0.43 U	11 U	17 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	11 U	17 U	0.42 UJ
Carbon disulfide	µg/L	0.34 U	8.5 U	14 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	8.8 U	14 U	0.35 UJ
Chlorobenzene	µg/L	1.5	8.0 U	13 U	0.32 U
Chloroethane	µg/L	0.41 UJ	10 UJ	16 UJ	0.70 J
Chloroform (Trichloromethane)	µg/L	0.31 U	7.8 U	12 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	11 U	17 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	190	520 J	12
cis-1,3-Dichloropropene	µg/L	0.26 U	6.5 U	10 U	0.26 U
Cyclohexane	µg/L	0.44 U	11 U	18 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	6.3 U	10 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	13 U	20 U	0.50 UJ
Ethylbenzene	µg/L	0.26 U	6.5 U	10 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	5.3 U	8.4 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	6.0 U	9.6 U	0.24 U
Methyl acetate	µg/L	1.4 U	36 U	57 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	11 U	18 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	6.8 U	11 U	0.27 U
Methylene chloride	µg/L	0.53 U	22 U	36 U	0.53 U
o-Xylene	µg/L	0.28 U	7.0 U	11 U	0.28 U
Styrene	µg/L	0.23 U	5.8 U	9.2 U	0.23 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-38	VAS-38	VAS-38	VAS-38
Sample Name:		GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		02/08/2018	02/08/2018	02/08/2018	02/09/2018
Parameters	**Unit**				
Volatile Organic Compounds					
Tetrachloroethene	µg/L	0.30 U	7.5 U	12 U	0.30 U
Toluene	µg/L	0.32 J	5.8 U	9.2 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	7.3 U	12 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	7.8 U	12 U	0.31 U
Trichloroethene	µg/L	0.33 U	8.3 U	13 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	13 U	20 U	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	10 U	16 U	0.41 UJ
Vinyl chloride	µg/L	0.45 U	230	270 J	20
Xylenes (total)	µg/L	0.24 U	6.0 U	9.6 U	0.24 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	0.39 U
2,4,5-Trichlorophenol	µg/L	--	--	--	0.29 U
2,4,6-Trichlorophenol	µg/L	--	--	--	0.23 U
2,4-Dichlorophenol	µg/L	--	--	--	0.18 U
2,4-Dimethylphenol	µg/L	--	--	--	0.24 U
2,4-Dinitrophenol	µg/L	--	--	--	0.31 U
2,4-Dinitrotoluene	µg/L	--	--	--	0.24 U
2,6-Dinitrotoluene	µg/L	--	--	--	0.78 U
2-Chloronaphthalene	µg/L	--	--	--	0.097 U
2-Chlorophenol	µg/L	--	--	--	0.28 U
2-Methylnaphthalene	µg/L	--	--	--	0.088 U
2-Methylphenol	µg/L	--	--	--	0.17 U
2-Nitroaniline	µg/L	--	--	--	0.20 U
2-Nitrophenol	µg/L	--	--	--	0.27 U
3&4-Methylphenol	µg/L	--	--	--	0.78 U
3,3'-Dichlorobenzidine	µg/L	--	--	--	0.36 U
3-Nitroaniline	µg/L	--	--	--	0.27 U
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	2.3 U
4-Bromophenyl phenyl ether	µg/L	--	--	--	0.21 U
4-Chloro-3-methylphenol	µg/L	--	--	--	0.20 U
4-Chloroaniline	µg/L	--	--	--	0.20 U
4-Chlorophenyl phenyl ether	µg/L	--	--	--	0.29 U
4-Nitroaniline	µg/L	--	--	--	0.21 U
4-Nitrophenol	µg/L	--	--	--	0.28 U
Acenaphthene	µg/L	--	--	--	0.043 U
Acenaphthylene	µg/L	--	--	--	0.047 U
Acetophenone	µg/L	--	--	--	0.33 U
Anthracene	µg/L	--	--	--	0.085 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-38	VAS-38	VAS-38	VAS-38
Sample Name:		GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		02/08/2018	02/08/2018	02/08/2018	02/09/2018
Parameters	**Unit**				
Semivolatile Organic Compounds					
Atrazine	µg/L	--	--	--	0.33 U
Benzaldehyde	µg/L	--	--	--	0.38 U
Benzo(a)anthracene	µg/L	--	--	--	0.029 U
Benzo(a)pyrene	µg/L	--	--	--	0.050 U
Benzo(b)fluoranthene	µg/L	--	--	--	0.038 U
Benzo(g,h,i)perylene	µg/L	--	--	--	0.045 U
Benzo(k)fluoranthene	µg/L	--	--	--	0.043 U
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	0.13 U
bis(2-Chloroethoxy)methane	µg/L	--	--	--	0.31 U
bis(2-Chloroethyl)ether	µg/L	--	--	--	0.097 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	1.7 U
Butyl benzylphthalate (BBP)	µg/L	--	--	--	0.25 U
Caprolactam	µg/L	--	--	--	0.19 U
Carbazole	µg/L	--	--	--	0.27 U
Chrysene	µg/L	--	--	--	0.049 U
Di-n-butylphthalate (DBP)	µg/L	--	--	--	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	0.23 U
Dibenz(a,h)anthracene	µg/L	--	--	--	0.043 U
Dibenzofuran	µg/L	--	--	--	0.019 U
Diethyl phthalate	µg/L	--	--	--	0.94 J
Dimethyl phthalate	µg/L	--	--	--	0.28 U
Fluoranthene	µg/L	--	--	--	0.043 U
Fluorene	µg/L	--	--	--	0.039 U
Hexachlorobenzene	µg/L	--	--	--	0.083 U
Hexachlorobutadiene	µg/L	--	--	--	0.26 U
Hexachlorocyclopentadiene	µg/L	--	--	--	0.23 U
Hexachloroethane	µg/L	--	--	--	0.18 U
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	0.042 U
Isophorone	µg/L	--	--	--	0.26 U
N-Nitrosodi-n-propylamine	µg/L	--	--	--	0.23 U
N-Nitrosodiphenylamine	µg/L	--	--	--	0.30 U
Naphthalene	µg/L	--	--	--	0.061 U
Nitrobenzene	µg/L	--	--	--	0.039 U
Pentachlorophenol	µg/L	--	--	--	0.26 U
Phenanthrene	µg/L	--	--	--	0.060 U
Phenol	µg/L	--	--	--	0.58 U
Pyrene	µg/L	--	--	--	0.041 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**
Sample Name:		**GW-38443-020818-JC-071**	**GW-38443-020818-JC-072**	**GW-38443-020818-JC-073**	**GW-38443-020918-JC-074**
Sample Date:		**02/08/2018**	**02/08/2018**	**02/08/2018**	**02/09/2018**
Parameters	**Unit**				
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	0.018 U
4,4'-DDE	µg/L	--	--	--	0.012 U
4,4'-DDT	µg/L	--	--	--	0.017 U
Aldrin	µg/L	--	--	--	0.013 U
alpha-BHC	µg/L	--	--	--	0.014 U
alpha-Chlordane	µg/L	--	--	--	0.012 U
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	0.050 U
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	0.090 U
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	0.070 U
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	0.060 U
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	0.050 U
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	0.030 U
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	0.040 U
beta-BHC	µg/L	--	--	--	0.018 U
delta-BHC	µg/L	--	--	--	0.029 U
Dieldrin	µg/L	--	--	--	0.013 U
Endosulfan I	µg/L	--	--	--	0.016 U
Endosulfan II	µg/L	--	--	--	0.015 U
Endosulfan sulfate	µg/L	--	--	--	0.015 U
Endrin	µg/L	--	--	--	0.013 U
Endrin aldehyde	µg/L	--	--	--	0.018 U
Endrin ketone	µg/L	--	--	--	0.016 U
gamma-BHC (lindane)	µg/L	--	--	--	0.013 U
gamma-Chlordane	µg/L	--	--	--	0.013 U
Heptachlor	µg/L	--	--	--	0.014 U
Heptachlor epoxide	µg/L	--	--	--	0.015 U
Methoxychlor	µg/L	--	--	--	0.013 U
Toxaphene	µg/L	--	--	--	0.19 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		VAS-38	VAS-38	VAS-38	VAS-38
Sample Name:		GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		02/08/2018	02/08/2018	02/08/2018	02/09/2018
Parameters	**Unit**				
Metals					
Aluminum	µg/L	880	190	64	85
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	5.8	2.7 J	1.1 J	5.2
Arsenic (dissolved)	µg/L	5.2	2.7 J	0.75 U	5.2
Barium	µg/L	1300	960	490	500
Barium (dissolved)	µg/L	1300	970	490	510
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	70000	47000	53000	65000
Calcium (dissolved)	µg/L	61000	46000	51000	65000
Chromium	µg/L	2.0	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.66 J	0.30 J	0.87 J	0.40 J
Cobalt (dissolved)	µg/L	0.19 U	0.19 J	0.84 J	0.35 J
Copper	µg/L	3.2	1.7 J	1.7 UJ	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	20 J	2.4
Iron	µg/L	3300	1000	360	2300
Iron (dissolved)	µg/L	1200	700	180	2100
Lead	µg/L	1.1	0.45 U	0.59 J	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	1.5	0.45 U
Magnesium	µg/L	47000	43000	42000	42000
Magnesium (dissolved)	µg/L	44000	43000	40000	42000
Manganese	µg/L	38	19	45	31
Manganese (dissolved)	µg/L	12	14	41	29
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	2.3	1.5 U	3.6	3.2
Nickel (dissolved)	µg/L	1.5 U	1.5 U	3.5	3.0
Potassium	µg/L	18000	21000	19000	16000
Potassium (dissolved)	µg/L	18000	22000	18000	16000
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	37000	42000	61000	61000

Table 2B

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-38	VAS-38	VAS-38	VAS-38
	Sample Name:	GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
	Sample Date:	02/08/2018	02/08/2018	02/08/2018	02/09/2018
Parameters	**Unit**				
Metals					
Sodium (dissolved)	µg/L	37000	43000	62000	62000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.0 J	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	210	190	180	280
Zinc (dissolved)	µg/L	130	170	210	270
General Chemistry					
Cyanide (total)	mg/L	--	--	--	0.0060 U
Chloride	µg/L	24000	39000	53000	57000
Nitrate (as N)	µg/L	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	2700	4000	6500	9200 J
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
-- Not applicable
UJ - Not detected; associated reporting limit is estimated

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-38	VAS-38	VAS-38
	Sample Name:	GW-38443-021318-JC-075	GW-38443-021318-JC-076	GW-38443-021418-JC-077
	Sample Date:	02/13/2018	02/13/2018	02/14/2018
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 UJ
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 UJ	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 UJ	0.35 UJ	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.49 J	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.41 J	0.62 J	2.1
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 UJ	0.50 UJ	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-38	VAS-38	VAS-38
	Sample Name:	GW-38443-021318-JC-075	GW-38443-021318-JC-076	GW-38443-021418-JC-077
	Sample Date:	02/13/2018	02/13/2018	02/14/2018
Parameters	**Unit**			
Volatile Organic Compounds				
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.34 J	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 UJ	0.50 UJ	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 UJ	0.41 UJ	0.41 U
Vinyl chloride	µg/L	0.81 J	1.5	0.52 J
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--
2-Chloronaphthalene	µg/L	--	--	--
2-Chlorophenol	µg/L	--	--	--
2-Methylnaphthalene	µg/L	--	--	--
2-Methylphenol	µg/L	--	--	--
2-Nitroaniline	µg/L	--	--	--
2-Nitrophenol	µg/L	--	--	--
3&4-Methylphenol	µg/L	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--
3-Nitroaniline	µg/L	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--
4-Chloroaniline	µg/L	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--
4-Nitroaniline	µg/L	--	--	--
4-Nitrophenol	µg/L	--	--	--
Acenaphthene	µg/L	--	--	--
Acenaphthylene	µg/L	--	--	--
Acetophenone	µg/L	--	--	--
Anthracene	µg/L	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

	Location ID:	VAS-38	VAS-38	VAS-38
	Sample Name:	GW-38443-021318-JC-075	GW-38443-021318-JC-076	GW-38443-021418-JC-077
	Sample Date:	02/13/2018	02/13/2018	02/14/2018
Parameters	**Unit**			
Semivolatile Organic Compounds				
Atrazine	µg/L	--	--	--
Benzaldehyde	µg/L	--	--	--
Benzo(a)anthracene	µg/L	--	--	--
Benzo(a)pyrene	µg/L	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--
Caprolactam	µg/L	--	--	--
Carbazole	µg/L	--	--	--
Chrysene	µg/L	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--
Dibenzofuran	µg/L	--	--	--
Diethyl phthalate	µg/L	--	--	--
Dimethyl phthalate	µg/L	--	--	--
Fluoranthene	µg/L	--	--	--
Fluorene	µg/L	--	--	--
Hexachlorobenzene	µg/L	--	--	--
Hexachlorobutadiene	µg/L	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--
Hexachloroethane	µg/L	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--
Isophorone	µg/L	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--
Naphthalene	µg/L	--	--	--
Nitrobenzene	µg/L	--	--	--
Pentachlorophenol	µg/L	--	--	--
Phenanthrene	µg/L	--	--	--
Phenol	µg/L	--	--	--
Pyrene	µg/L	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-38**	**VAS-38**	**VAS-38**
Sample Name:		**GW-38443-021318-JC-075**	**GW-38443-021318-JC-076**	**GW-38443-021418-JC-077**
Sample Date:		**02/13/2018**	**02/13/2018**	**02/14/2018**
Parameters	**Unit**			
Pesticides/PCBs				
4,4'-DDD	µg/L	--	--	--
4,4'-DDE	µg/L	--	--	--
4,4'-DDT	µg/L	--	--	--
Aldrin	µg/L	--	--	--
alpha-BHC	µg/L	--	--	--
alpha-Chlordane	µg/L	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--
beta-BHC	µg/L	--	--	--
delta-BHC	µg/L	--	--	--
Dieldrin	µg/L	--	--	--
Endosulfan I	µg/L	--	--	--
Endosulfan II	µg/L	--	--	--
Endosulfan sulfate	µg/L	--	--	--
Endrin	µg/L	--	--	--
Endrin aldehyde	µg/L	--	--	--
Endrin ketone	µg/L	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--
gamma-Chlordane	µg/L	--	--	--
Heptachlor	µg/L	--	--	--
Heptachlor epoxide	µg/L	--	--	--
Methoxychlor	µg/L	--	--	--
Toxaphene	µg/L	--	--	--

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-38**	**VAS-38**	**VAS-38**
Sample Name:		**GW-38443-021318-JC-075**	**GW-38443-021318-JC-076**	**GW-38443-021418-JC-077**
Sample Date:		**02/13/2018**	**02/13/2018**	**02/14/2018**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	66	120	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	1.2 U	0.57 U	1.4 U
Antimony (dissolved)	µg/L	1.5 U	0.57 U	1.6 U
Arsenic	µg/L	1.7 J	2.8 J	2.7 J
Arsenic (dissolved)	µg/L	1.4 J	3.0 J	2.7 J
Barium	µg/L	190	490	730
Barium (dissolved)	µg/L	180	490	730
Beryllium	µg/L	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 J
Cadmium	µg/L	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.25 J	0.21 U	0.21 U
Calcium	µg/L	79000	66000	85000
Calcium (dissolved)	µg/L	78000	66000	86000
Chromium	µg/L	1.2 J	1.1 J	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.51 J	0.41 J	0.47 J
Cobalt (dissolved)	µg/L	0.33 J	0.30 J	0.38 J
Copper	µg/L	10	2.7	12
Copper (dissolved)	µg/L	6.0	1.7 U	1.7 U
Iron	µg/L	6100	2100	5600
Iron (dissolved)	µg/L	2600	1300	2500
Lead	µg/L	0.83 J	0.45 U	0.80 J
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	51000	42000	54000
Magnesium (dissolved)	µg/L	50000	42000	54000
Manganese	µg/L	87	58	58
Manganese (dissolved)	µg/L	71	49	53
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	3.0	2.7	1.9 J
Nickel (dissolved)	µg/L	2.0	1.5 U	1.5 U
Potassium	µg/L	13000	11000	16000
Potassium (dissolved)	µg/L	13000	11000	16000
Selenium	µg/L	0.89 U	0.89 U	1.2 J
Selenium (dissolved)	µg/L	0.99 J	0.89 U	1.3 J
Silver	µg/L	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U
Sodium	µg/L	56000	39000	47000

Analytical Results Summary
VAS-31, VAS-44, VAS-34 and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Location ID:		**VAS-38**	**VAS-38**	**VAS-38**
Sample Name:		**GW-38443-021318-JC-075**	**GW-38443-021318-JC-076**	**GW-38443-021418-JC-077**
Sample Date:		**02/13/2018**	**02/13/2018**	**02/14/2018**
Parameters	**Unit**			
Metals				
Sodium (dissolved)	µg/L	55000	40000	47000
Thallium	µg/L	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	200	130	280
Zinc (dissolved)	µg/L	180	120	260
General Chemistry				
Cyanide (total)	mg/L	--	--	--
Chloride	µg/L	52000	42000	73000
Nitrate (as N)	µg/L	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	25000	9100	19000
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
-- Not applicable
UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Fumigants	SW-846 8011	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Water	7	40
Total & Dissolved Metals	SW-846 6020	Water	-	180
Total & Dissolved Mercury	SW-846 7470A	Water	-	28
Cyanide	SW-846 9012B	Water	-	14
Anions (Chloride, Sulfate, Nitrate, Nitrite)	EPA 300.0	Water	-	28 48 hours for Nitrate & Nitrite

Notes:

- - Not applicable
EPA - "Methods for Chemical Analysis of Water and Wastes," EPA-600/4-79-020, March 1983 (with all subsequent revisions)
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions

Table 4

Qualified Sample Results Due to Holding Time Exceedance
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Sample ID	Holding Time (hours)	Holding Time Criteria (hours)	Analyte	Qualified Sample Results	Units
General Chemistry	GW-038443-012918-KVM-053	52	48	Nitrate (as N)	42 J	µg/L
				Nitrite (as N)	14 UJ	µg/L
General Chemistry	GW-038443-012918-KVM-054	53	48	Nitrate (as N)	36 J	µg/L
				Nitrite (as N)	14 UJ	µg/L

Notes:

J - Estimated concentration
N - Nitrogen
UJ - Not detected; associated reporting limit is estimated

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromomethane (Methyl bromide)	01/26/2018	62	GW-38443-011918-KVM-043	0.42 UJ	µg/L
				GW-38443-011918-KVM-044	0.42 UJ	µg/L
VOCs	Chloromethane (Methyl chloride)	01/26/2018	55	GW-38443-011918-KVM-043	0.43 UJ	µg/L
				GW-38443-011918-KVM-044	0.43 UJ	µg/L
VOCs	Chloroethane	01/26/2018	41	GW-38443-012218-KVM-045	0.41 UJ	µg/L
				GW-38443-012218-KVM-046	0.41 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	01/26/2018	58	GW-38443-012218-KVM-045	0.50 UJ	µg/L
				GW-38443-012218-KVM-046	0.50 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	01/29/2018	28	GW-38443-012318-KVM-048	0.27 UJ	µg/L
				GW-38443-012318-KVM-049	0.27 UJ	µg/L
VOCs	Carbon tetrachloride	01/29/2018	28	GW-38443-012318-KVM-048	0.35 UJ	µg/L
				GW-38443-012318-KVM-049	0.35 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	01/31/2018	28	GW-38443-012418-KVM-050	0.27 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	01/31/2018	28	GW-38443-012518-KVM-051	0.42 UJ	µg/L
VOCs	1,1,2,2-Tetrachloroethane	02/01/2018	32	GW-38443-012618-KVM-052	0.32 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	02/02/2018	37	GW-038443-012918-KVM-053	0.27 UJ	µg/L
				GW-038443-012918-KVM-054	6.8 UJ	µg/L
				GW-038443-012918-KVM-055	0.27 UJ	µg/L
				GW-38443-013018-KVM-056	0.27 UJ	µg/L
				GW-38443-013018-KVM-057	0.27 UJ	µg/L
				GW-38443-013018-KVM-058	0.27 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromomethane (Methyl bromide)	02/02/2018	39	GW-038443-012918-KVM-053	0.42 UJ	µg/L
				GW-038443-012918-KVM-054	11 UJ	µg/L
				GW-038443-012918-KVM-055	0.42 UJ	µg/L
				GW-38443-013018-KVM-056	0.42 UJ	µg/L
				GW-38443-013018-KVM-057	0.42 UJ	µg/L
				GW-38443-013018-KVM-058	0.42 UJ	µg/L
VOCs	Carbon tetrachloride	02/02/2018	27	GW-038443-012918-KVM-053	0.35 UJ	µg/L
				GW-038443-012918-KVM-054	8.8 UJ	µg/L
				GW-038443-012918-KVM-055	0.35 UJ	µg/L
				GW-38443-013018-KVM-056	0.35 UJ	µg/L
				GW-38443-013018-KVM-057	0.35 UJ	µg/L
				GW-38443-013018-KVM-058	0.35 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	02/02/2018	51	GW-038443-012918-KVM-053	0.50 UJ	µg/L
				GW-038443-012918-KVM-054	13 UJ	µg/L
				GW-038443-012918-KVM-055	0.50 UJ	µg/L
				GW-38443-013018-KVM-056	0.50 UJ	µg/L
				GW-38443-013018-KVM-057	0.50 UJ	µg/L
				GW-38443-013018-KVM-058	0.50 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	02/02/2018	50	GW-038443-012918-KVM-053	0.50 UJ	µg/L
				GW-038443-012918-KVM-054	13 UJ	µg/L
				GW-038443-012918-KVM-055	0.50 UJ	µg/L
				GW-38443-013018-KVM-056	0.50 UJ	µg/L
				GW-38443-013018-KVM-057	0.50 UJ	µg/L
				GW-38443-013018-KVM-058	0.50 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	02/06/2018	26	GW-38443-013118-KVM-059	0.27 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	02/07/2018	26	GW-38443-013118-KVM-060	0.27 UJ	µg/L
				GW-38443-020118-KVM-061	0.27 UJ	µg/L
				GW-38443-020118-KVM-062	0.27 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	02/07/2018	89	GW-38443-013118-KVM-060	0.42 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
				GW-38443-020118-KVM-061	0.42 UJ	µg/L
				GW-38443-020118-KVM-062	0.42 UJ	µg/L
VOCs	Chloroethane	02/07/2018	44	GW-38443-013118-KVM-060	0.41 UJ	µg/L
				GW-38443-020118-KVM-061	0.41 UJ	µg/L
				GW-38443-020118-KVM-062	0.41 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	02/07/2018	47	GW-38443-013118-KVM-060	0.50 UJ	µg/L
				GW-38443-020118-KVM-061	0.50 UJ	µg/L
				GW-38443-020118-KVM-062	0.50 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	02/07/2018	72	GW-38443-013118-KVM-060	0.50 UJ	µg/L
				GW-38443-020118-KVM-061	0.50 UJ	µg/L
				GW-38443-020118-KVM-062	0.50 UJ	µg/L
VOCs	Acetone	02/09/2018	43	GW-38443-020518-KVM-063	1.8 UJ	µg/L
				GW-38443-020518-KVM-064	1.8 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	02/09/2018	89	GW-38443-020518-KVM-063	0.50 UJ	µg/L
				GW-38443-020518-KVM-064	0.50 UJ	µg/L
					UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	02/08/2018	35	GW-038443-020618-KVM-065	0.27 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	02/08/2018	45	GW-038443-020618-KVM-065	0.42 UJ	µg/L
VOCs	Carbon tetrachloride	02/08/2018	35	GW-038443-020618-KVM-065	0.35 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	02/08/2018	42	GW-038443-020618-KVM-065	0.50 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	02/08/2018	65	GW-038443-020618-KVM-065	0.50 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
PCBs	Aroclor-1221 (PCB-1221)	03/06/2018	17.6	GW-38443-021618-JC-078	0.087 UJ	µg/L
				GW-38443-021918-JC-081	0.086 UJ	µg/L
PCBs	Aroclor-1254 (PCB-1254)	03/06/2018	15.5	GW-38443-021618-JC-078	0.029 UJ	µg/L
				GW-38443-021918-JC-081	0.029 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	02/12/2018	40	GW-038443-020718-KVM-066	0.27 UJ	µg/L
				GW-038443-020718-KVM-067	0.27 UJ	µg/L
				GW-038443-020718-KVM-068	0.27 UJ	µg/L
				GW-038443-020718-KVM-069	0.27 UJ	µg/L
				GW-038443-020718-KVM-070	0.27 UJ	µg/L
VOCs	2-Butanone	02/12/2018	48	GW-038443-020718-KVM-066	1.0 UJ	µg/L
				GW-038443-020718-KVM-067	1.0 UJ	µg/L
				GW-038443-020718-KVM-068	1.0 UJ	µg/L
				GW-038443-020718-KVM-069	1.0 UJ	µg/L
				GW-038443-020718-KVM-070	1.2 J	µg/L
VOCs	Bromoform	02/12/2018	27	GW-038443-020718-KVM-066	0.43 UJ	µg/L
				GW-038443-020718-KVM-067	0.43 UJ	µg/L
				GW-038443-020718-KVM-068	0.43 UJ	µg/L
				GW-038443-020718-KVM-069	0.43 UJ	µg/L
				GW-038443-020718-KVM-070	0.43 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	02/12/2018	38	GW-038443-020718-KVM-066	0.42 UJ	µg/L
				GW-038443-020718-KVM-067	0.42 UJ	µg/L
				GW-038443-020718-KVM-068	0.42 UJ	µg/L
				GW-038443-020718-KVM-069	0.42 UJ	µg/L
				GW-038443-020718-KVM-070	0.42 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	02/12/2018	57	GW-038443-020718-KVM-066	0.50 UJ	µg/L
				GW-038443-020718-KVM-067	0.50 UJ	µg/L
				GW-038443-020718-KVM-068	0.50 UJ	µg/L
				GW-038443-020718-KVM-069	0.50 UJ	µg/L
				GW-038443-020718-KVM-070	0.50 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Trichlorofluoromethane (CFC-11)	02/12/2018	74	GW-038443-020718-KVM-066	0.50 UJ	µg/L
				GW-038443-020718-KVM-067	0.50 UJ	µg/L
				GW-038443-020718-KVM-068	0.50 UJ	µg/L
				GW-038443-020718-KVM-069	0.50 UJ	µg/L
				GW-038443-020718-KVM-070	0.50 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	02/14/2018	28	GW-38443-020818-JC-071	0.27 UJ	µg/L
				GW-38443-020818-JC-072	6.8 UJ	µg/L
				GW-38443-020818-JC-073	11 UJ	µg/L
VOCs	Acetone	02/14/2018	54	GW-38443-020818-JC-071	1.8 UJ	µg/L
				GW-38443-020818-JC-072	44 UJ	µg/L
				GW-38443-020818-JC-073	70 UJ	µg/L
VOCs	Chloroethane	02/14/2018	57	GW-38443-020818-JC-071	0.41 UJ	µg/L
				GW-38443-020818-JC-072	10 UJ	µg/L
				GW-38443-020818-JC-073	16 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	02/13/2018	74	GW-38443-020918-JC-074	0.42 UJ	µg/L
	Carbon tetrachloride		42		0.35 UJ	µg/L
	Dichlorodifluoromethane (CFC-12)		47		0.50 UJ	µg/L
	Trichlorofluoromethane (CFC-11)		87		0.50 UJ	µg/L
	Trifluorotrichloroethane (CFC-113)		50		0.41 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	02/16/2018	83	GW-38443-021318-JC-075	0.42 UJ	µg/L
				GW-38443-021318-JC-076	0.42 UJ	µg/L
VOCs	Carbon tetrachloride	02/16/2018	38	GW-38443-021318-JC-075	0.35 UJ	µg/L
				GW-38443-021318-JC-076	0.35 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	02/16/2018	55	GW-38443-021318-JC-075	0.50 UJ	µg/L
				GW-38443-021318-JC-076	0.50 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Trichlorofluoromethane (CFC-11)	02/16/2018	92	GW-38443-021318-JC-075	0.50 UJ	µg/L
				GW-38443-021318-JC-076	0.50 UJ	µg/L
VOCs	Trifluorotrichloroethane (CFC-113)	02/16/2018	41	GW-38443-021318-JC-075	0.41 UJ	µg/L
				GW-38443-021318-JC-076	0.41 UJ	µg/L
VOCs	1,1,2,2-Tetrachloroethane	02/19/2018	45	GW-38443-021418-JC-077	0.32 UJ	µg/L
	Bromoform		27		0.43 UJ	µg/L
VOCs	Acetone	02/20/2018	77	GW-38443-021618-JC-078	1.8 UJ	µg/L
	Chloroethane		59		0.41 UJ	µg/L
	Methyl acetate		41		1.4 UJ	µg/L
	Trichlorofluoromethane (CFC-11)		53		0.50 UJ	µg/L
VOCs	Chloroethane	02/21/2018	39	GW-38443-021618-JC-079	0.41 UJ	µg/L
	Trichlorofluoromethane (CFC-11)		58		0.50 UJ	µg/L
VOCs	Acetone	02/22/2018	58	GW-38443-021918-JC-080	4.4 UJ	µg/L
				GW-38443-021918-JC-081	1.8 UJ	µg/L
VOCs	Chloroethane	02/22/2018	44	GW-38443-021918-JC-080	1.0 UJ	µg/L
				GW-38443-021918-JC-081	0.41 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	02/22/2018	58	GW-38443-021918-JC-080	1.3 UJ	µg/L
				GW-38443-021918-JC-081	0.50 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	02/26/2018	49	GW-38443-022018-JC-082	0.42 UJ	µg/L
				GW-38443-022018-JC-083	0.84 UJ	µg/L
				GW-38443-022018-JC-084	4.2 UJ	µg/L
VOCs	1,1,2,2-Tetrachloroethane	02/26/2018	33	GW-38443-022118-JC-087	0.53 UJ	µg/L
				GW-38443-022118-JC-088	0.32 UJ	µg/L
				GW-38443-022118-JC-085	2.1 UJ	µg/L
				GW-38443-022118-JC-086	0.80 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Toluene	02/26/2018	28	GW-38443-022118-JC-086	0.69 J	µg/L
				GW-38443-022118-JC-085	1.5 UJ	µg/L
				GW-38443-022118-JC-087	0.52 J	µg/L
				GW-38443-022118-JC-088	0.53 J	µg/L
VOCs	Acetone	03/01/2018	53	GW-38443-022218-JC-090	1.8 UJ	µg/L
				GW-38443-022218-JC-091	1.8 UJ	µg/L
				GW-38443-022218-JC-092	1.8 UJ	µg/L
VOCs	Methyl acetate	03/01/2018	41	GW-38443-022218-JC-090	1.4 UJ	µg/L
				GW-38443-022218-JC-091	1.4 UJ	µg/L
				GW-38443-022218-JC-092	1.4 UJ	µg/L
VOCs	2-Butanone	02/27/2018	54	GW-38443-022318-JC-094	1.0 UJ	µg/L
	Bromoform		37		0.43 UJ	µg/L
	Bromomethane (Methyl bromide)		52		0.42 UJ	µg/L
	Carbon tetrachloride		31		0.35 UJ	µg/L
	Trichlorofluoromethane (CFC-11)		77		0.50 UJ	µg/L

Notes:

%D - Percent difference
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds
PCBs - Polychlorinated Biphenyls

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Raw Blank Result	DF	Sample ID	Original Result	Qualified Result	Units
SVOCs	Biphenyl (1,1-Biphenyl)	01/24/2018	0.88 J	0.877 J	1	GW-38443-011918-KVM-043	0.67 J	0.88 U	µg/L
VOCs	Methylene chloride	02/14/2018	14.4 J	0.577 J	25	GW-38443-020818-JC-072	22 J	22 U	µg/L
		02/14/2018	23.1 J	0.577 J	40	GW-38443-020818-JC-073	36 J	36 U	µg/L
VOCs	Methylene chloride	02/22/2018	2.1 J	0.823 J	2.5	GW-38443-021918-JC-080	2.3 J	2.3 U	µg/L

Notes:

* - Blank result adjusted for sample factors
DF - Dilution Factor
J - Estimated concentration
SVOCs - Semivolatile Organic Compounds
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Results Due to Analyte Concentrations in the Instrument Blanks
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	Blank ID	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
Metals	Antimony	CCB	01/30/2018	0.95 J	GW-38443-012418-KVM-050	0.62 J	0.95 U	µg/L
Metals	Antimony (dissolved)	CCB	02/01/2018	1.2 J	GW-38443-012518-KVM-051	2.0	2.0 U	µg/L
					GW-38443-012618-KVM-052	1.6 J	1.6 U	µg/L
Metals	Beryllium (dissolved)	CCB	01/31/2018	0.38 J	GW-38443-012518-KVM-051	0.41 J	0.41 U	µg/L
Metals	Silver	CCB	01/31/2018	0.20 J	GW-38443-012518-KVM-051	0.17 J	0.20 U	µg/L
					GW-38443-012618-KVM-052	0.16 J	0.20 U	µg/L
Metals	Antimony	CCB	02/05/2018	0.70 J	GW-38443-013118-KVM-059	1.4 J	1.4 U	µg/L
	Antimony (dissolved)					0.64 J	0.70 U	µg/L
Metals	Antimony (dissolved)	CCB	02/06/2018	0.82 J	GW-38443-020118-KVM-061	0.83 J	0.83 U	µg/L
	Antimony					0.85 J	0.85 U	µg/L
Metals	Antimony (dissolved)	CCB	02/08/2018	0.60 J	GW-38443-020518-KVM-063	1.4 J	1.4 U	µg/L
	Antimony				GW-38443-020518-KVM-063	1.9 J	1.9 U	µg/L
	Antimony				GW-38443-020518-KVM-064	0.90 J	0.90 U	µg/L
Metals	Antimony (dissolved)	CCB	02/09/2018	0.78 J	GW-038443-020618-KVM-065	1.3 J	1.3 U	µg/L
Metals	Antimony	CCB	02/19/2018	0.77 J	GW-38443-021318-JC-075	1.2 J	1.2 U	µg/L
	Antimony (dissolved)					1.5 J	1.5 U	µg/L
Metals	Antimony	CCB	02/19/2018	0.61 J	GW-38443-021418-JC-077	1.4 J	1.4 U	µg/L
	Antimony (dissolved)					1.6 J	1.6 U	µg/L

Notes:

CCB - Continuing Calibration Blank
J - Estimated concentration
U - Not detected at the associated reporting limit

Table 8

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	Methyl acetate	02/20/2018	60	63-137	GW-38443-021618-JC-078	1.4 UJ	µg/L
VOCs	Trifluorotrichloroethane (CFC-113)	02/26/2018	52	65-144	GW-38443-022118-JC-085	2.7 UJ	µg/L
					GW-38443-022118-JC-086	1.0 UJ	µg/L
					GW-38443-022118-JC-087	0.68 UJ	µg/L
					GW-38443-022118-JC-088	0.41 UJ	µg/L
VOCs	Methyl acetate	03/01/2018	61	63-137	GW-38443-022218-JC-090	1.4 UJ	µg/L
					GW-38443-022218-JC-091	1.4 UJ	µg/L
					GW-38443-022218-JC-092	1.4 UJ	µg/L

Notes:

UJ - Not detected; associated reporting limit is estimated
LCS - Laboratory Control Sample
VOCs - Volatile Organic Compounds

Table 9

Qualified Sample Results Due to Outlying MS/MSD Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	GW-38443-012618-KVM-052	Aluminum	136	137	0	75-125	20	12000 J	µg/L
	GW-38443-012518-KVM-051							6300 J	µg/L
VOCs	GW-38443-020818-JC-073	1,1,1-Trichloroethane	118	98	18	57-156	13	15 J	µg/L
		1,1-Dichloroethane	106	93	12	69-122	11	23 J	µg/L
		cis-1,2-Dichloroethene	122	91	13	69-127	11	520 J	µg/L
		Vinyl chloride	111	89	13	55-123	12	270 J	µg/L
VOCs	GW-38443-022118-JC-085	Bromoform	51	51	1	61-135	13	2.9 UJ	µg/L
General Chemistry	GW-38443-020918-JC-074	Sulfate	133	146	8	80-120	15	9200 J	µg/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 10

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	02/21/2018	Acetone	110	GW-38443-022118-JC-085	12 J	110 U	µg/L
VOCs	02/21/2018	Methylene chloride	2.3 J	GW-38443-022118-JC-085	5.8 J	5.8 U	µg/L
				GW-38443-022118-JC-086	2.4 J	2.4 U	µg/L
				GW-38443-022118-JC-087	1.3 J	2.3 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 11

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	GW-38443-012418-KVM-EB	01/24/2018	Copper	1.8 J	GW-38443-012418-KVM-050	1.8 J	1.8 U	µg/L
			Magnesium	23000		39000	39000 U	µg/L
			Magnesium (dissolved)			37000	37000 U	µg/L
			Potassium	2600		4900	4900 U	µg/L
			Potassium (dissolved)			4800	4800 U	µg/L
			Sodium	28000		70000	70000 U	µg/L
			Sodium (dissolved)			70000	70000 U	µg/L
Metals	GW-038443-020618-KVM-EB	02/06/2018	Arsenic	1.2 J	GW-038443-020618-KVM-065	2.3 J	2.3 U	µg/L
			Arsenic (dissolved)			2.4 J	2.4 U	µg/L
			Barium	51		100	100 U	µg/L
			Barium (dissolved)			100	100 U	µg/L
			Calcium	24000		110000	110000 U	µg/L
			Calcium (dissolved)			110000	110000 U	µg/L
			Copper	3.0		4.1	4.1 U	µg/L
			Copper (dissolved)			8.6	8.6 U	µg/L
			Magnesium	23000		35000	35000 U	µg/L
			Magnesium (dissolved)			36000	36000 U	µg/L
			Potassium	2700		3600	3600 U	µg/L
			Potassium (dissolved)			3600	3600 U	µg/L
			Sodium	27000		38000	38000 U	µg/L
			Sodium (dissolved)			40000	40000 U	µg/L
General Chemistry	GW-38443-012418-KVM-EB	01/24/2018	Nitrate (as N)	810	GW-38443-012418-KVM-050	53 J	810 U	µg/L
			Sulfate	51000	GW-38443-012418-KVM-050	64000	64000 U	µg/L

Table 11

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	EB-38443-022318-JC-093	02/23/2018	Barium	49	GW-38443-022318-JC-094	120	120 U	µg/L
			Barium (dissolved)			130	130 U	µg/L
			Calcium	21000		95000	95000 U	µg/L
			Calcium (dissolved)			96000	96000 U	µg/L
			Copper	2.4		2.7	2.7 U	µg/L
			Magnesium	28000		39000	39000 U	µg/L
			Magnesium (dissolved)			40000	40000 U	µg/L
			Potassium	2500		8000	8000 U	µg/L
			Potassium (dissolved)			8000	8000 U	µg/L
			Sodium	37000		37000	37000 U	µg/L
			Sodium (dissolved)			37000	37000 U	µg/L
			Chloride	62000		76000	76000 U	µg/L
			Nitrate (as N)	1600		21 J	1600 U	µg/L
			Sulfate	44000		81000	81000 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Table 12

Qualified Sample Data Due to Analyte Concentrations in the Field Blanks
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Field Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	GW-38443-022118-JC-089	02/21/2018	Copper (dissolved)	2.2	GW-38443-022118-JC-085	5.5	5.5 U	µg/L
					GW-38443-022118-JC-086	3.9	3.9 U	µg/L
					GW-38443-022118-JC-088	4.1	4.1 U	µg/L
Metals	GW-38443-022118-JC-089	02/21/2018	Copper	2.2	GW-38443-022118-JC-088	11	11 U	µg/L

Notes:

U - Not detected at the associated reporting limit

Table 13

Qualified Sample Data Due to Variability in Field Duplicate Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Metals	Copper	27	1.9	1.7	GW-38443-013018-KVM-056	6.0 J	GW-38443-013018-KVM-057	7.9 J	µg/L
Metals	Aluminum	91	9400	34	GW-038443-020718-KVM-067	15000 J	GW-038443-020718-KVM-068	5600 J	µg/L
	Aluminum (dissolved)	119	320	34		110 J		430 J	µg/L
	Arsenic	78	11.8	0.75		21 J		9.2 J	µg/L
	Calcium	59	100000	580		220000 J		120000 J	µg/L
	Chromium	92	22	0.98		35 J		13 J	µg/L
	Cobalt	89	8.6	0.19		14 J		5.4 J	µg/L
	Copper	105	40	1.7		58 J		18 J	µg/L
	Copper (dissolved)	92	4.4	1.7		7.0 J		2.6 J	µg/L
	Iron	104	24000	47		35000 J		11000 J	µg/L
	Iron (dissolved)	71	790	47		710 J		1500 J	µg/L
	Lead	121	20.4	0.45		27 J		6.6 J	µg/L
	Manganese	84	590	2.1		1000 J		410 J	µg/L
	Nickel	88	22	1.5		36 J		14 J	µg/L
	Selenium	88	1.9	0.89		3.1 J		1.2 J	µg/L
	Vanadium	90	23	0.82		37 J		14 J	µg/L
	Zinc	64	270	15		560 J		290 J	µg/L
Metals	Copper	71	12	1.7	GW-38443-022118-JC-087	23 J	GW-38443-022118-JC-088	11 UJ	µg/L

Notes:

Diff - Difference (<RL for water)
J - Estimated concentration
RL - Reporting Limit
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated

Table 14

Qualified Sample Data Due to Discrepancies Between Total and Dissolved Results
VAS-31, VAS-44, VAS-34, and VAS-38 Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January-February 2018

Parameter	Sample ID	Analyte	%D	Criteria (percent)	Qualified Total Result	Qualified Dissolved Result	Units
Metals	GW-38443-013018-KVM-056	Zinc	33	20	120 J	160 J	µg/L
Metals	GW-38443-020818-JC-073	Copper	1076	20	1.7 UJ	20 J	µg/L
	GW-38443-021618-JC-078		900		2.0 J	20 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Memorandum

Revised: July 6, 2018
June 26, 2018

To:	Julian Hayward	Ref. No.:	038443-360
From:	Angela Bown/mkd/40-NF	Tel:	513-942-4750
cc:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and 10/90-Full/Innovative Validation**
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

1. Introduction

This document details a 10/90-full/innovative validation of analytical results for water samples collected in support of the Groundwater Sampling Program at the Moraine, Ohio site during March 2018 through May 2018. Full data validation was performed on sample delivery group (SDG) 240-95843-1. The remaining data were reviewed using the innovative approach. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

iv) “Innovative Approaches for Validation of Organic and Inorganic Data”, USEPA Region 3, June 1995

Items ii), iii), and iv) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear or quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Fumigants and Herbicides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the coefficient of determination (R^2) is 0.990 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide	85 - 115%
Instrumental Wet Chemistry	Anions	90 - 110%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period with the exception of the results presented with qualifiers in Table 4.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

All method blank results were either non-detect or did not impact the associated sample results because they were either non-detect or were concentrations significantly greater than the associated laboratory blank concentrations for the analyte of interest.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that several metals and general chemistry parameters concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 5 and Table 6).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides were not assessed. All remaining surrogate recoveries were within the laboratory criteria.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. Most LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Table 7 presents the sample result that was qualified as estimated due to an outlying LCS recovery.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision with a few exceptions. Table 8 presents the qualified and rejected sample results.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision with the exception of nitrite analysis. Table 8 presents the qualified sample results.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of 10 trip blank samples, 3 equipment rinse blanks, and 3 field duplicate sample sets.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, 10 trip blanks were submitted to the laboratory for VOC analysis. Low levels of target analytes were detected in some of the trip blank samples. Most associated sample results were non-detect or were significantly greater than the trip blank values and were not impacted. Table 9 presents the sample results that were qualified as non-detect due to analytes concentrations in the trip blank samples that were similar in concentration to the investigative sample results.

15.2 Equipment Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, 3 rinse blanks were submitted for analysis, as identified in Table 1. Numerous target analytes were detected in the rinse blank samples. Table 10 presents the sample results that were qualified as non-detect due to analyte concentrations in the rinse blanks that were similar in concentration to the investigative sample results.

15.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, 3 field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

All field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision.

16. Total versus Dissolved Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20%D). Table 11 presents the sample results that were qualified due to results that were in exceedance of the method variability.

17. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

18. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

GC analyses were performed using dual column analyses. All the results showed good correlation between the two columns (<40 RPD).

19. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exceptions and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments
					VOCs	SVOCs	Pesticides	PCBs	Fumigants	Herbicides	Total & Dissolved Metals	Total & Dissolved Mercury	Cyanide	Anions	
GW-38443-032318-GL-001	MW-214	Water	03/23/2018	12:35	X	X	X	X	X		X	X	X	X	MS/MSD
GW-38443-032318-GL-002	MW-214	Water	03/23/2018	13:00	X	X	X	X	X		X	X	X	X	FD(GW-38443-032318-GL-001)
TRIPBLANK-032318-GL-001	-	Water	03/23/2018	-	X										Trip Blank
TRIPBLANK-032318-GL-002	-	Water	03/23/2018	-					X						Trip Blank
WG-38443-050818-GL-002	BH02-18	Water	05/08/2018	09:35	X				X		X	X		X	MS/MSD
WG-38443-050818-GL-003	BH01-18	Water	05/08/2018	11:10	X				X		X	X		X	
WG-38443-050818-GL-004	BH01-18	Water	05/08/2018	11:35	X				X		X	X		X	FD(WG-38443-050818-GL-003)
WG-38443-050818-GL-005	BH04-18	Water	05/08/2018	14:35	X				X		X	X		X	MS/MSD
TRIP BLANK-050818-002	-	Water	05/08/2018	-	X				X						Trip Blank
WG-38443-050718-GL-001	BH03-18	Water	05/07/2018	15:40	X				X		X	X		X	MS/MSD
TRIPBLANK-050718-001	-	Water	05/07/2018	00:00	X				X						Trip Blank
EB-38443-051018-GL-006	-	Water	05/10/2018	07:25	X				X		X	X		X	Equipment Blank
TRIP BLANK-051018-003	-	Water	05/10/2018	-	X				X						Trip Blank
WG-38443-051018-GL-007	BH06-18	Water	05/10/2018	09:45	X				X		X	X		X	MS/MSD
WG-38443-051018-GL-008	BH07-18	Water	05/10/2018	11:15	X				X		X	X		X	
WG-38443-051018-GL-009	BH05-18	Water	05/10/2018	12:45	X				X		X	X		X	
TRIPBLANK-051118-004	-	Water	05/11/2018	-	X				X						Trip Blank
WG-38443-051118-GL-010	BH08-18	Water	05/11/2018	09:35	X	X		X	X		X	X	X	X	
WG-38443-051118-GL-011	BH10-18	Water	05/11/2018	13:45	X	X		X	X		X	X	X	X	MS/MSD
WG-38443-051418-GL-012	BH09-18	Water	05/14/2018	13:30	X	X		X	X		X	X	X	X	MS/MSD
TRIP BLANK-051418-005	-	Water	05/14/2018	-	X				X						Trip Blank
TRIP BLANK-051518-006	-	Water	05/15/2018	-	X				X						Trip Blank
WG-38443-051518-GL-013	BH20-18	Water	05/15/2018	08:55	X	X	X	X	X	X	X	X	X	X	MS/MSD
WG-38443-051518-GL-014	BH20-18	Water	05/15/2018	09:30	X	X	X	X	X	X	X	X	X	X	FD(WG-38443-051518-GL-013)
TRIPBLANK-051818-007	-	Water	05/18/2018	-	X				X						Trip Blank
WG-38443-051818-GL-015	BH13-18	Water	05/18/2018	11:40	X	X	X	X	X	X	X	X	X	X	MS/MSD

Table 1

Sample Collection and Analysis Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Sample Identification	Location	Matrix	Collection Date (mm/dd/yyyy)	Collection Time (hr:min)	Analysis/Parameters										Comments
					VOCs	SVOCs	Pesticides	PCBs	Fumigants	Herbicides	Total & Dissolved Metals	Total & Dissolved Mercury	Cyanide	Anions	
WG-38443-051818-GL-016	BH12-18	Water	05/18/2018	13:30	X	X	X	X	X	X	X	X	X	X	
WG-38443-051818-GL-017	-	Water	05/18/2018	14:30	X	X	X	X	X	X	X	X	X	X	Equipment Blank
EB-38443-051818-JC-084	-	Water	05/18/2018	14:00	X	X	X	X			X	X	X		Equipment Blank
TRIPBLANK-051818-JC-001	-	Water	05/18/2018	-	X										Trip Blank

Notes:

-	- Not applicable
FD	- Field Duplicate sample of sample in parentheses
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
PCBs	- Polychlorinated Biphenyls
SVOCs	- Semi-volatile Organic Compounds
VOCs	- Volatile Organic Compounds

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH01-18	BH01-18	BH02-18	BH03-18
	Sample Name:	WG-38443-050818-GL-003	WG-38443-050818-GL-004	WG-38443-050818-GL-002	WG-38443-050718-GL-001
	Sample Date:	05/08/2018	05/08/2018 Duplicate	05/08/2018	05/07/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	1.0	3.7
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	1.8
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	290 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U	1.7
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH01-18	BH01-18	BH02-18	BH03-18
	Sample Name:	WG-38443-050818-GL-003	WG-38443-050818-GL-004	WG-38443-050818-GL-002	WG-38443-050718-GL-001
	Sample Date:	05/08/2018	05/08/2018 Duplicate	05/08/2018	05/07/2018
Parameters	**Unit**				
Volatile Organic Compounds (Continued)					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.79 J
Toluene	µg/L	0.48 J	0.44 J	0.27 J	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.52 U	12
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH01-18	BH01-18	BH02-18	BH03-18
	Sample Name:	WG-38443-050818-GL-003	WG-38443-050818-GL-004	WG-38443-050818-GL-002	WG-38443-050718-GL-001
	Sample Date:	05/08/2018	05/08/2018 Duplicate	05/08/2018	05/07/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH01-18	BH01-18	BH02-18	BH03-18
	Sample Name:	WG-38443-050818-GL-003	WG-38443-050818-GL-004	WG-38443-050818-GL-002	WG-38443-050718-GL-001
	Sample Date:	05/08/2018	05/08/2018 Duplicate	05/08/2018	05/07/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH01-18	BH01-18	BH02-18	BH03-18
	Sample Name:	WG-38443-050818-GL-003	WG-38443-050818-GL-004	WG-38443-050818-GL-002	WG-38443-050718-GL-001
	Sample Date:	05/08/2018	05/08/2018 Duplicate	05/08/2018	05/07/2018
Parameters	**Unit**				
Pesticides/PCBs (Continued)					
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--
Metals					
Aluminum	µg/L	540	530	5700	790
Aluminum (dissolved)	µg/L	34 U	34 U	260	160
Antimony	µg/L	0.57 U	0.57 U	1.8 J	1.3 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.89 J	0.86 J
Arsenic	µg/L	0.95 J	1.1 J	11	0.75 U
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	1.2 J	0.75 U
Barium	µg/L	170	170	360	250
Barium (dissolved)	µg/L	160	170	220	220
Beryllium	µg/L	0.33 J	0.31 U	0.81 J	0.35 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.68 J	0.31 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 J	0.21 U	0.21 U
Calcium	µg/L	200000	210000	240000	170000
Calcium (dissolved)	µg/L	200000	210000	210000	160000
Chromium	µg/L	1.6 J	1.6 J	18	3.2
Chromium (dissolved)	µg/L	0.98 U	0.98 U	1.4 J	1.5 J
Cobalt	µg/L	1.1	1.1	4.4	2.4
Cobalt (dissolved)	µg/L	0.76 J	0.95 J	1.4	1.6
Copper	µg/L	4.5	2.8 J	330	11
Copper (dissolved)	µg/L	4.0	5.1 J	39	9.1
Iron	µg/L	1300	1300	15000	2400
Iron (dissolved)	µg/L	340	350	2100	740
Lead	µg/L	0.45 U	0.45 U	24	1.2
Lead (dissolved)	µg/L	0.45 U	0.45 U	2.1	0.45 J
Magnesium	µg/L	42000	42000	77000	80000
Magnesium (dissolved)	µg/L	41000	42000	63000	74000
Manganese	µg/L	220	240	1700	280
Manganese (dissolved)	µg/L	170	180	430	160

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH01-18	BH01-18	BH02-18	BH03-18
	Sample Name:	WG-38443-050818-GL-003	WG-38443-050818-GL-004	WG-38443-050818-GL-002	WG-38443-050718-GL-001
	Sample Date:	05/08/2018	05/08/2018 Duplicate	05/08/2018	05/07/2018
Parameters	**Unit**				
Metals (Continued)					
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	6.6	7.1	40	18
Nickel (dissolved)	µg/L	5.5	6.0	20	13
Potassium	µg/L	1300	1300	8600	14000
Potassium (dissolved)	µg/L	1100	1200	7100	14000
Selenium	µg/L	8.6	8.8	15	7.0
Selenium (dissolved)	µg/L	9.0	9.2	15	6.5
Silver	µg/L	0.053 U	0.053 U	0.17 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	11000	11000	32000	29000
Sodium (dissolved)	µg/L	12000	12000	31000	28000
Thallium	µg/L	0.20 U	0.20 U	0.66 J	0.30 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.21 J	0.21 J
Vanadium	µg/L	1.4 J	1.3 J	13	2.0 J
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	15 U	15 U	310	17 J
Zinc (dissolved)	µg/L	15 U	15 U	43	15 U
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	11000	11000	25000	42000
Nitrate (as N)	µg/L	8000	7600	17000	3000
Nitrite (as N)	µg/L	35 J	28 J	140	19 J
Sulfate	µg/L	39000	39000	130000	180000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH04-18	BH05-18	BH06-18	BH07-18
	Sample Name:	WG-38443-050818-GL-005	WG-38443-051018-GL-009	WG-38443-051018-GL-007	WG-38443-051018-GL-008
	Sample Date:	05/08/2018	05/10/2018	05/10/2018	05/10/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.30 J	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	1.4	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.93 J	1.4	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH04-18	BH05-18	BH06-18	BH07-18
	Sample Name:	WG-38443-050818-GL-005	WG-38443-051018-GL-009	WG-38443-051018-GL-007	WG-38443-051018-GL-008
	Sample Date:	05/08/2018	05/10/2018	05/10/2018	05/10/2018
Parameters	**Unit**				
Volatile Organic Compounds (Continued)					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.35 J	0.31 J	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.53 J	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH04-18	BH05-18	BH06-18	BH07-18
	Sample Name:	WG-38443-050818-GL-005	WG-38443-051018-GL-009	WG-38443-051018-GL-007	WG-38443-051018-GL-008
	Sample Date:	05/08/2018	05/10/2018	05/10/2018	05/10/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH04-18	BH05-18	BH06-18	BH07-18
	Sample Name:	WG-38443-050818-GL-005	WG-38443-051018-GL-009	WG-38443-051018-GL-007	WG-38443-051018-GL-008
	Sample Date:	05/08/2018	05/10/2018	05/10/2018	05/10/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH04-18	BH05-18	BH06-18	BH07-18
	Sample Name:	WG-38443-050818-GL-005	WG-38443-051018-GL-009	WG-38443-051018-GL-007	WG-38443-051018-GL-008
	Sample Date:	05/08/2018	05/10/2018	05/10/2018	05/10/2018
Parameters	**Unit**				
Pesticides/PCBs (Continued)					
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--
Metals					
Aluminum	µg/L	430	2200 U	5000	3200
Aluminum (dissolved)	µg/L	51	2200 U	2200 U	2200 U
Antimony	µg/L	0.57 U	0.57 U	1.1 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	1.1 U	0.57 U
Arsenic	µg/L	0.75 U	2.4 U	5.9	2.9 U
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	2.4 U	0.75 U
Barium	µg/L	170	180	280	190
Barium (dissolved)	µg/L	170	140	110	140
Beryllium	µg/L	0.31 U	0.31 U	0.53 U	0.52 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.57 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.38 U	0.21 U
Calcium	µg/L	230000	200000	150000	300000
Calcium (dissolved)	µg/L	220000	190000	120000	280000
Chromium	µg/L	1.4 J	30 U	30 U	30 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	1.0	3.2 U	9.0	2.8 U
Cobalt (dissolved)	µg/L	0.71 J	2.8 U	4.9	2.8 U
Copper	µg/L	1.7 U	52 U	52 U	52 U
Copper (dissolved)	µg/L	1.7 U	52 U	52 U	52 U
Iron	µg/L	1400	7300 U	10000	7300 U
Iron (dissolved)	µg/L	610	7300 U	7300 U	7300 U
Lead	µg/L	0.45 U	6.6	4.3 U	3.8 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	48000	86000	120000	67000
Magnesium (dissolved)	µg/L	43000	84000	110000	58000
Manganese	µg/L	120	540	1300	220 U
Manganese (dissolved)	µg/L	87	480	1200	200 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH04-18	BH05-18	BH06-18	BH07-18
	Sample Name:	WG-38443-050818-GL-005	WG-38443-051018-GL-009	WG-38443-051018-GL-007	WG-38443-051018-GL-008
	Sample Date:	05/08/2018	05/10/2018	05/10/2018	05/10/2018
Parameters	**Unit**				
Metals (Continued)					
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	8.3	32 U	32 U	32 U
Nickel (dissolved)	µg/L	8.1	32 U	32 U	32 U
Potassium	µg/L	1600	18000	26000	3500 U
Potassium (dissolved)	µg/L	1600	18000	24000	3300 U
Selenium	µg/L	25	2.3 U	1.4 U	2.9 U
Selenium (dissolved)	µg/L	26	2.4 U	0.89 U	2.5 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	39000	52000	100000	46000
Sodium (dissolved)	µg/L	40000	55000	100000	45000
Thallium	µg/L	0.20 U	0.20 U	0.60 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.39 U	0.20 U
Vanadium	µg/L	1.4 J	5.8 U	14	7.5 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	15 U	170 U	170 U	170 U
Zinc (dissolved)	µg/L	15 U	170 U	170 U	170 U
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	40000	60000	150000	52000
Nitrate (as N)	µg/L	19000	310 J	150 J	16000
Nitrite (as N)	µg/L	27 J	14 U	14 U	39 J
Sulfate	µg/L	75000	130000	140000	250000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:	BH08-18	BH09-18	BH10-18	BH12-18
Sample Name:	WG-38443-051118-GL-010	WG-38443-051418-GL-012	WG-38443-051118-GL-011	WG-38443-051818-GL-016
Sample Date:	05/11/2018	05/14/2018	05/11/2018	05/18/2018
Parameters	**Unit**			
Volatile Organic Compounds				
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 UJ
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 UJ
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 UJ
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	7.5 J	1.8 U
Benzene	µg/L	0.28 U	0.28 J	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 UJ
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	2.9	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 UJ
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 UJ
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 UJ
cis-1,2-Dichloroethene	µg/L	4.1	2.1	1.2	1.8 J
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 UJ
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 UJ
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 UJ
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH08-18	BH09-18	BH10-18	BH12-18
	Sample Name:	WG-38443-051118-GL-010	WG-38443-051418-GL-012	WG-38443-051118-GL-011	WG-38443-051818-GL-016
	Sample Date:	05/11/2018	05/14/2018	05/11/2018	05/18/2018
Parameters	**Unit**				
Volatile Organic Compounds (Continued)					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 UJ
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.55 J	0.30 U	0.30 U	0.63 J
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 UJ
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 UJ
Trichloroethene	µg/L	4.1	0.33 U	0.33 U	11
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	15	0.45 U	0.45 UJ
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.40 U	0.41 U	0.42 U	0.52 U
2,4,5-Trichlorophenol	µg/L	0.30 U	0.31 U	0.31 U	1.9 U
2,4,6-Trichlorophenol	µg/L	0.24 U	0.24 U	0.25 U	1.7 U
2,4-Dichlorophenol	µg/L	0.19 U	0.19 U	0.20 U	0.25 U
2,4-Dimethylphenol	µg/L	0.25 U	0.26 U	0.26 U	0.49 U
2,4-Dinitrophenol	µg/L	0.32 U	0.33 U	0.33 U	5.9 U
2,4-Dinitrotoluene	µg/L	0.25 U	0.26 U	0.26 U	2.0 U
2,6-Dinitrotoluene	µg/L	0.81 U	0.82 U	0.83 U	2.0 U
2-Chloronaphthalene	µg/L	0.10 U	0.10 U	0.10 U	0.46 U
2-Chlorophenol	µg/L	0.29 U	0.30 U	0.30 U	0.26 U
2-Methylnaphthalene	µg/L	0.091 U	0.092 U	0.094 U	0.11 U
2-Methylphenol	µg/L	0.17 U	0.17 U	0.18 U	0.20 U
2-Nitroaniline	µg/L	0.21 U	0.21 U	0.22 U	0.49 U
2-Nitrophenol	µg/L	0.28 U	0.29 U	0.29 U	0.54 U
3&4-Methylphenol	µg/L	0.81 U	0.82 U	0.83 U	0.18 U
3,3'-Dichlorobenzidine	µg/L	0.37 U	0.38 U	0.39 U	1.1 U
3-Nitroaniline	µg/L	0.28 U	0.29 U	0.29 U	0.54 U
4,6-Dinitro-2-methylphenol	µg/L	2.4 U	2.4 U	2.5 U	2.7 U
4-Bromophenyl phenyl ether	µg/L	0.22 U	0.22 U	0.23 U	0.48 U
4-Chloro-3-methylphenol	µg/L	0.21 U	0.21 U	0.22 U	0.28 U
4-Chloroaniline	µg/L	0.21 U	0.21 U	0.22 U	0.30 U
4-Chlorophenyl phenyl ether	µg/L	0.30 U	0.31 U	0.31 U	0.52 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH08-18	BH09-18	BH10-18	BH12-18
	Sample Name:	WG-38443-051118-GL-010	WG-38443-051418-GL-012	WG-38443-051118-GL-011	WG-38443-051818-GL-016
	Sample Date:	05/11/2018	05/14/2018	05/11/2018	05/18/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
4-Nitroaniline	µg/L	0.22 U	0.22 U	0.23 U	0.87 U
4-Nitrophenol	µg/L	0.29 U	0.30 U	0.30 U	2.1 U
Acenaphthene	µg/L	0.045 U	0.045 U	0.046 U	0.16 U
Acenaphthylene	µg/L	0.049 U	0.049 U	0.050 U	0.12 U
Acetophenone	µg/L	0.34 U	0.35 U	0.35 U	0.35 U
Anthracene	µg/L	0.089 U	0.090 U	0.092 U	0.13 U
Atrazine	µg/L	0.34 U	0.35 U	0.35 U	0.32 U
Benzaldehyde	µg/L	0.39 U	0.40 U	0.41 U	0.37 U
Benzo(a)anthracene	µg/L	0.030 U	0.030 U	0.031 U	0.16 U
Benzo(a)pyrene	µg/L	0.052 U	0.052 U	0.054 U	0.16 U
Benzo(b)fluoranthene	µg/L	0.040 U	0.040 U	0.041 U	0.15 U
Benzo(g,h,i)perylene	µg/L	0.047 U	0.047 U	0.048 U	0.17 U
Benzo(k)fluoranthene	µg/L	0.045 U	0.046 U	0.047 U	0.13 U
Biphenyl (1,1-Biphenyl)	µg/L	0.13 U	0.13 U	0.14 U	0.47 U
bis(2-Chloroethoxy)methane	µg/L	0.32 U	0.33 U	0.33 U	0.43 U
bis(2-Chloroethyl)ether	µg/L	0.10 U	0.10 U	0.10 U	0.38 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.7 U	1.7 U	1.8 U	2.1 U
Butyl benzylphthalate (BBP)	µg/L	0.26 U	0.27 U	0.27 U	0.63 U
Caprolactam	µg/L	0.20 U	0.20 U	0.21 U	0.19 U
Carbazole	µg/L	0.28 U	0.29 U	0.29 U	0.47 U
Chrysene	µg/L	0.051 U	0.051 U	0.052 U	0.18 U
Di-n-butylphthalate (DBP)	µg/L	1.7 U	1.7 U	1.8 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.23 U	0.23 U	0.24 U	0.78 U
Dibenz(a,h)anthracene	µg/L	0.045 U	0.046 U	0.046 U	0.042 U
Dibenzofuran	µg/L	0.020 U	0.020 U	0.021 U	0.53 U
Diethyl phthalate	µg/L	0.61 U	0.61 U	0.62 U	3.6 U
Dimethyl phthalate	µg/L	0.29 U	0.30 U	0.30 U	0.49 U
Fluoranthene	µg/L	0.045 U	0.046 U	0.046 U	0.15 U
Fluorene	µg/L	0.041 U	0.041 U	0.042 U	0.16 U
Hexachlorobenzene	µg/L	0.086 U	0.087 U	0.089 U	0.15 U
Hexachlorobutadiene	µg/L	0.27 U	0.28 U	0.28 U	0.52 U
Hexachlorocyclopentadiene	µg/L	0.24 U	0.24 U	0.25 U	1.7 U
Hexachloroethane	µg/L	0.19 U	0.19 U	0.20 U	0.38 U
Indeno(1,2,3-cd)pyrene	µg/L	0.044 U	0.044 U	0.045 U	0.13 U
Isophorone	µg/L	0.27 U	0.28 U	0.28 U	0.31 U
N-Nitrosodi-n-propylamine	µg/L	0.24 U	0.24 U	0.25 U	0.24 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH08-18	BH09-18	BH10-18	BH12-18
	Sample Name:	WG-38443-051118-GL-010	WG-38443-051418-GL-012	WG-38443-051118-GL-011	WG-38443-051818-GL-016
	Sample Date:	05/11/2018	05/14/2018	05/11/2018	05/18/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
N-Nitrosodiphenylamine	µg/L	0.31 U	0.32 U	0.32 U	0.42 U
Naphthalene	µg/L	0.063 U	0.064 U	0.065 U	0.10 U
Nitrobenzene	µg/L	0.040 U	0.041 U	0.042 U	0.49 U
Pentachlorophenol	µg/L	0.27 U	0.28 U	0.28 U	3.0 U
Phenanthrene	µg/L	0.063 U	0.063 U	0.064 U	0.16 U
Phenol	µg/L	0.61 U	0.61 U	0.62 U	0.12 U
Pyrene	µg/L	0.042 U	0.043 U	0.044 U	0.17 U
Herbicides					
2,4,5-T	µg/L	--	--	--	0.57 U
2,4,5-TP (Silvex)	µg/L	--	--	--	0.43 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	2.2 U
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	0.065 U
4,4'-DDE	µg/L	--	--	--	0.052 U
4,4'-DDT	µg/L	--	--	--	0.059 UJ
Aldrin	µg/L	--	--	--	0.029 U
alpha-BHC	µg/L	--	--	--	0.024 U
alpha-Chlordane	µg/L	--	--	--	0.039 U
Aroclor-1016 (PCB-1016)	µg/L	0.056 U	0.056 U	0.062 U	0.068 U
Aroclor-1221 (PCB-1221)	µg/L	0.057 U	0.057 U	0.063 U	0.070 U
Aroclor-1232 (PCB-1232)	µg/L	0.074 U	0.074 U	0.082 U	0.090 U
Aroclor-1242 (PCB-1242)	µg/L	0.076 U	0.076 U	0.084 U	0.093 U
Aroclor-1248 (PCB-1248)	µg/L	0.050 U	0.050 U	0.056 U	0.061 U
Aroclor-1254 (PCB-1254)	µg/L	0.040 U	0.040 U	0.044 U	0.049 U
Aroclor-1260 (PCB-1260)	µg/L	0.046 U	0.046 U	0.051 U	0.056 U
beta-BHC	µg/L	--	--	--	0.056 U
delta-BHC	µg/L	--	--	--	0.052 U
Dieldrin	µg/L	--	--	--	0.028 U
Endosulfan I	µg/L	--	--	--	0.045 U
Endosulfan II	µg/L	--	--	--	0.028 U
Endosulfan sulfate	µg/L	--	--	--	0.045 U
Endrin	µg/L	--	--	--	0.030 U
Endrin aldehyde	µg/L	--	--	--	0.056 U
Endrin ketone	µg/L	--	--	--	0.049 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH08-18	BH09-18	BH10-18	BH12-18
	Sample Name:	WG-38443-051118-GL-010	WG-38443-051418-GL-012	WG-38443-051118-GL-011	WG-38443-051818-GL-016
	Sample Date:	05/11/2018	05/14/2018	05/11/2018	05/18/2018
Parameters	**Unit**				
Pesticides/PCBs (Continued)					
gamma-BHC (lindane)	µg/L	--	--	--	0.030 U
gamma-Chlordane	µg/L	--	--	--	0.061 U
Heptachlor	µg/L	--	--	--	0.040 U
Heptachlor epoxide	µg/L	--	--	--	0.032 U
Methoxychlor	µg/L	--	--	--	0.057 UJ
Toxaphene	µg/L	--	--	--	0.71 U
Metals					
Aluminum	µg/L	1100	160	200	34 U
Aluminum (dissolved)	µg/L	1100	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	7.5	19	1.6 J	0.75 U
Arsenic (dissolved)	µg/L	7.3	18	0.75 U	0.75 U
Barium	µg/L	220	230	280	150
Barium (dissolved)	µg/L	230	230	290	150
Beryllium	µg/L	0.31 U	0.49 J	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.48 J	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.24 J	0.21 U	0.21 U
Calcium	µg/L	220000	97000	160000	130000
Calcium (dissolved)	µg/L	200000	98000	160000	120000
Chromium	µg/L	2.6	2.7	2.2	0.98 U
Chromium (dissolved)	µg/L	2.9	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	4.2	1.3	0.42 J	0.91 J
Cobalt (dissolved)	µg/L	4.7	0.96 J	0.32 J	0.88 J
Copper	µg/L	3.3 J	3.7	1.7 U	2.9
Copper (dissolved)	µg/L	6.3 J	1.7 U	1.7 U	3.0
Iron	µg/L	3300 J	11000	4500	780
Iron (dissolved)	µg/L	4100 J	8900	3800	660
Lead	µg/L	1.5	1.6	0.66 J	0.45 U
Lead (dissolved)	µg/L	1.7	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	55000	42000	54000	42000
Magnesium (dissolved)	µg/L	46000	41000	54000	39000
Manganese	µg/L	430	210	620	200
Manganese (dissolved)	µg/L	370	160	630	190

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH08-18	BH09-18	BH10-18	BH12-18
	Sample Name:	WG-38443-051118-GL-010	WG-38443-051418-GL-012	WG-38443-051118-GL-011	WG-38443-051818-GL-016
	Sample Date:	05/11/2018	05/14/2018	05/11/2018	05/18/2018
Parameters	**Unit**				
Metals (Continued)					
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	7.3 J	2.2	2.7	4.0
Nickel (dissolved)	µg/L	14 J	1.5 U	2.4	4.1
Potassium	µg/L	9600	14000	9300	8500
Potassium (dissolved)	µg/L	9100	14000	9600	8100
Selenium	µg/L	5.6	1.1 J	0.89 U	4.8 J
Selenium (dissolved)	µg/L	5.5	0.89 U	0.89 U	5.0
Silver	µg/L	0.072 J	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.054 J	0.053 U	0.053 U	0.053 U
Sodium	µg/L	43000	70000	85000	120000
Sodium (dissolved)	µg/L	42000	69000	90000	110000
Thallium	µg/L	0.20 U	0.20 J	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.8 J	0.89 J	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	2.8 J	0.82 U	0.82 U	0.82 U
Zinc	µg/L	20 J	15 U	18 J	15 U
Zinc (dissolved)	µg/L	34 J	15 U	15 U	15 U
General Chemistry					
Cyanide (total)	mg/L	0.39	0.012 U	0.010 U	0.0060 U
Chloride	µg/L	63000	63000	180000	180000
Nitrate (as N)	µg/L	510	14 U	14 U	1700
Nitrite (as N)	µg/L	48 J	14 U	14 U	14 U
Sulfate	µg/L	100000	21000	68000	56000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH13-18	BH20-18	BH20-18	Equipment Blank
	Sample Name:	WG-38443-051818-GL-015	WG-38443-051518-GL-013	WG-38443-051518-GL-014	EB-38443-051018-GL-006
	Sample Date:	05/18/2018	05/15/2018	05/15/2018 Duplicate	05/10/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.27 J	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.30 J	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 UJ	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.43 J	0.40 J	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.44 J	0.41 J	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	18	17	0.32 U
Chloroethane	µg/L	0.41 UJ	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 UJ	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 UJ	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.90 J	0.99 J	0.93 J	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 UJ	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 UJ	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 UJ	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		BH13-18	BH20-18	BH20-18	Equipment Blank
Sample Name:		WG-38443-051818-GL-015	WG-38443-051518-GL-013	WG-38443-051518-GL-014	EB-38443-051018-GL-006
Sample Date:		05/18/2018	05/15/2018	05/15/2018 Duplicate	05/10/2018
Parameters	**Unit**				
Volatile Organic Compounds (Continued)					
Methylene chloride	µg/L	0.53 UJ	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 UJ	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 UJ	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	7.9	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 UJ	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.56 U	0.56 U	0.52 U	--
2,4,5-Trichlorophenol	µg/L	2.0 U	2.0 U	1.9 U	--
2,4,6-Trichlorophenol	µg/L	1.8 U	1.8 U	1.7 U	--
2,4-Dichlorophenol	µg/L	0.26 U	0.27 U	0.25 U	--
2,4-Dimethylphenol	µg/L	0.52 U	0.53 U	0.49 U	--
2,4-Dinitrophenol	µg/L	6.3 U	6.3 U	5.9 U	--
2,4-Dinitrotoluene	µg/L	2.1 U	2.1 U	2.0 U	--
2,6-Dinitrotoluene	µg/L	2.1 U	2.2 U	2.0 U	--
2-Chloronaphthalene	µg/L	0.49 U	0.49 U	0.46 U	--
2-Chlorophenol	µg/L	0.28 U	0.28 U	0.26 U	--
2-Methylnaphthalene	µg/L	0.11 U	0.11 U	0.11 U	--
2-Methylphenol	µg/L	0.21 U	0.21 U	0.20 U	--
2-Nitroaniline	µg/L	0.52 U	0.52 U	0.49 U	--
2-Nitrophenol	µg/L	0.57 U	0.58 U	0.54 U	--
3&4-Methylphenol	µg/L	0.19 U	0.19 U	0.18 U	--
3,3'-Dichlorobenzidine	µg/L	1.2 U	1.2 U	1.1 U	--
3-Nitroaniline	µg/L	0.57 U	0.58 U	0.54 U	--
4,6-Dinitro-2-methylphenol	µg/L	2.8 U	2.9 U	2.7 U	--
4-Bromophenyl phenyl ether	µg/L	0.50 U	0.51 U	0.48 U	--
4-Chloro-3-methylphenol	µg/L	0.30 U	0.30 U	0.28 U	--
4-Chloroaniline	µg/L	0.32 U	0.32 U	0.30 U	--
4-Chlorophenyl phenyl ether	µg/L	0.56 U	0.56 U	0.52 U	--

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		BH13-18	BH20-18	BH20-18	Equipment Blank
Sample Name:		WG-38443-051818-GL-015	WG-38443-051518-GL-013	WG-38443-051518-GL-014	EB-38443-051018-GL-006
Sample Date:		05/18/2018	05/15/2018	05/15/2018 Duplicate	05/10/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
4-Nitroaniline	µg/L	0.93 U	0.94 U	0.87 U	--
4-Nitrophenol	µg/L	2.2 U	2.2 U	2.1 U	--
Acenaphthene	µg/L	0.17 U	0.18 U	0.16 U	--
Acenaphthylene	µg/L	0.13 U	0.13 U	0.12 U	--
Acetophenone	µg/L	0.37 U	0.37 U	0.35 U	--
Anthracene	µg/L	0.14 U	0.14 U	0.13 U	--
Atrazine	µg/L	0.34 U	0.35 U	0.32 U	--
Benzaldehyde	µg/L	0.39 U	0.40 U	0.37 U	--
Benzo(a)anthracene	µg/L	0.17 U	0.17 U	0.16 U	--
Benzo(a)pyrene	µg/L	0.17 U	0.18 U	0.16 U	--
Benzo(b)fluoranthene	µg/L	0.16 U	0.16 U	0.15 U	--
Benzo(g,h,i)perylene	µg/L	0.18 U	0.18 U	0.17 U	--
Benzo(k)fluoranthene	µg/L	0.14 U	0.14 U	0.13 U	--
Biphenyl (1,1-Biphenyl)	µg/L	0.50 U	0.50 U	0.47 U	--
bis(2-Chloroethoxy)methane	µg/L	0.46 U	0.46 U	0.43 U	--
bis(2-Chloroethyl)ether	µg/L	0.41 U	0.41 U	0.38 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.2 U	2.3 U	2.1 U	--
Butyl benzylphthalate (BBP)	µg/L	0.67 U	0.68 U	0.63 U	--
Caprolactam	µg/L	0.20 U	0.20 U	0.19 U	--
Carbazole	µg/L	0.49 U	0.50 U	0.47 U	--
Chrysene	µg/L	0.19 U	0.19 U	0.18 U	--
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.8 U	1.7 U	--
Di-n-octyl phthalate (DnOP)	µg/L	0.83 U	0.84 U	0.78 U	--
Dibenz(a,h)anthracene	µg/L	0.045 U	0.046 U	0.042 U	--
Dibenzofuran	µg/L	0.57 U	0.57 U	0.53 U	--
Diethyl phthalate	µg/L	3.9 U	3.9 U	3.6 U	--
Dimethyl phthalate	µg/L	0.52 U	0.53 U	0.49 U	--
Fluoranthene	µg/L	0.16 U	0.16 U	0.15 U	--
Fluorene	µg/L	0.17 U	0.17 U	0.16 U	--
Hexachlorobenzene	µg/L	0.16 U	0.16 U	0.15 U	--
Hexachlorobutadiene	µg/L	0.55 U	0.55 U	0.52 U	--
Hexachlorocyclopentadiene	µg/L	1.8 U	1.8 U	1.7 U	--
Hexachloroethane	µg/L	0.40 U	0.40 U	0.38 U	--
Indeno(1,2,3-cd)pyrene	µg/L	0.14 U	0.14 U	0.13 U	--
Isophorone	µg/L	0.33 U	0.33 U	0.31 U	--
N-Nitrosodi-n-propylamine	µg/L	0.26 U	0.26 U	0.24 U	--

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		BH13-18	BH20-18	BH20-18	Equipment Blank
Sample Name:		WG-38443-051818-GL-015	WG-38443-051518-GL-013	WG-38443-051518-GL-014	EB-38443-051018-GL-006
Sample Date:		05/18/2018	05/15/2018	05/15/2018 Duplicate	05/10/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
N-Nitrosodiphenylamine	µg/L	0.44 U	0.45 U	0.42 U	--
Naphthalene	µg/L	0.11 U	0.11 U	0.10 U	--
Nitrobenzene	µg/L	0.52 U	0.52 U	0.49 U	--
Pentachlorophenol	µg/L	3.1 U	3.2 U	3.0 U	--
Phenanthrene	µg/L	0.17 U	0.17 U	0.16 U	--
Phenol	µg/L	0.13 U	0.13 U	0.12 U	--
Pyrene	µg/L	0.18 U	0.18 U	0.17 U	--
Herbicides					
2,4,5-T	µg/L	0.57 U	0.57 U	0.57 U	--
2,4,5-TP (Silvex)	µg/L	0.43 U	0.43 U	0.43 U	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	2.2 U	2.2 U	2.2 U	--
Pesticides/PCBs					
4,4'-DDD	µg/L	0.0059 U	0.0056 U	0.0059 U	--
4,4'-DDE	µg/L	0.0048 U	0.0045 U	0.0048 U	--
4,4'-DDT	µg/L	0.0053 UJ	0.0051 U	0.0053 U	--
Aldrin	µg/L	0.0027 U	0.0025 U	0.0027 U	--
alpha-BHC	µg/L	0.0022 U	0.0021 U	0.0022 U	--
alpha-Chlordane	µg/L	0.0036 U	0.0034 U	0.0036 U	--
Aroclor-1016 (PCB-1016)	µg/L	0.062 U	0.057 U	0.053 U	--
Aroclor-1221 (PCB-1221)	µg/L	0.063 U	0.058 U	0.054 U	--
Aroclor-1232 (PCB-1232)	µg/L	0.082 U	0.076 U	0.070 U	--
Aroclor-1242 (PCB-1242)	µg/L	0.084 U	0.078 U	0.072 U	--
Aroclor-1248 (PCB-1248)	µg/L	0.056 U	0.051 U	0.048 U	--
Aroclor-1254 (PCB-1254)	µg/L	0.044 U	0.041 U	0.038 U	--
Aroclor-1260 (PCB-1260)	µg/L	0.051 U	0.047 U	0.044 U	--
beta-BHC	µg/L	0.0051 U	0.0048 U	0.0051 U	--
delta-BHC	µg/L	0.0048 U	0.0045 U	0.0048 U	--
Dieldrin	µg/L	0.0026 U	0.0024 U	0.0026 U	--
Endosulfan I	µg/L	0.0041 U	0.0039 U	0.0041 U	--
Endosulfan II	µg/L	0.0026 U	0.0024 U	0.0026 U	--
Endosulfan sulfate	µg/L	0.0041 U	0.0039 U	0.0041 U	--
Endrin	µg/L	0.0028 U	0.0026 U	0.0028 U	--
Endrin aldehyde	µg/L	0.0051 U	0.0048 U	0.0051 U	--
Endrin ketone	µg/L	0.0044 U	0.0042 U	0.0044 U	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH13-18	BH20-18	BH20-18	Equipment Blank
	Sample Name:	WG-38443-051818-GL-015	WG-38443-051518-GL-013	WG-38443-051518-GL-014	EB-38443-051018-GL-006
	Sample Date:	05/18/2018	05/15/2018	05/15/2018 Duplicate	05/10/2018
Parameters	**Unit**				
Pesticides/PCBs (Continued)					
gamma-BHC (lindane)	µg/L	0.0028 U	0.0026 U	0.0028 U	--
gamma-Chlordane	µg/L	0.0056 U	0.0053 U	0.0056 U	--
Heptachlor	µg/L	0.0037 U	0.0035 U	0.0037 U	--
Heptachlor epoxide	µg/L	0.0029 U	0.0027 U	0.0029 U	--
Methoxychlor	µg/L	0.0052 UJ	0.0049 UJ	0.0052 UJ	--
Toxaphene	µg/L	0.065 U	0.061 U	0.065 U	--
Metals					
Aluminum	µg/L	1300	34 U	34 U	2200
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	--
Antimony	µg/L	0.57 U	0.57 U	0.57 U	1.0 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	--
Arsenic	µg/L	3.9 J	230	230	2.4 J
Arsenic (dissolved)	µg/L	0.75 U	230	230	--
Barium	µg/L	160	260	260	32
Barium (dissolved)	µg/L	110	250	260	--
Beryllium	µg/L	0.31 U	0.31 J	0.31 U	0.52 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	--
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.38 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	--
Calcium	µg/L	170000	160000	160000	49000
Calcium (dissolved)	µg/L	120000	160000	160000	--
Chromium	µg/L	14	0.98 U	0.98 U	30
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	--
Cobalt	µg/L	5.7	1.7	1.6	2.8
Cobalt (dissolved)	µg/L	3.8	1.5	1.5	--
Copper	µg/L	7.8	1.7 U	1.7 UJ	52
Copper (dissolved)	µg/L	5.4	1.7 U	5.9 J	--
Iron	µg/L	4700	13000	13000	7300
Iron (dissolved)	µg/L	860	13000	13000	--
Lead	µg/L	3.0	0.45 U	0.45 U	3.8
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	--
Magnesium	µg/L	56000	89000	89000	21000
Magnesium (dissolved)	µg/L	36000	85000	89000	--
Manganese	µg/L	430	70	70	200
Manganese (dissolved)	µg/L	260	67	68	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	BH13-18	BH20-18	BH20-18	Equipment Blank
	Sample Name:	WG-38443-051818-GL-015	WG-38443-051518-GL-013	WG-38443-051518-GL-014	EB-38443-051018-GL-006
	Sample Date:	05/18/2018	05/15/2018	05/15/2018 Duplicate	05/10/2018
Parameters	**Unit**				
Metals (Continued)					
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	--
Nickel	µg/L	63	2.9	3.0	32
Nickel (dissolved)	µg/L	44	2.7	3.2	--
Potassium	µg/L	7800	32000	32000	3300
Potassium (dissolved)	µg/L	7100	31000	32000	--
Selenium	µg/L	7.3	1.1 J	0.89 U	1.4 J
Selenium (dissolved)	µg/L	6.6	0.89 U	0.89 U	--
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	--
Sodium	µg/L	130000	50000	49000	8400
Sodium (dissolved)	µg/L	120000	48000	49000	--
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.33 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	--
Vanadium	µg/L	3.8 J	0.82 U	0.82 U	5.8
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	--
Zinc	µg/L	390	15 U	15 U	170
Zinc (dissolved)	µg/L	280	15 U	15 U	--
General Chemistry					
Cyanide (total)	mg/L	0.0060 U	0.0060 U	0.0060 U	--
Chloride	µg/L	220000	43000	43000	480 J
Nitrate (as N)	µg/L	3700	14 U	14 U	41 J
Nitrite (as N)	µg/L	44 J	14 U	14 U	14 U
Sulfate	µg/L	57000	49000	49000	350 U
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		Equipment Blank	Equipment Blank	MW-214	MW-214
Sample Name:		EB-38443-051818-JC-084	WG-38443-051818-GL-017	GW-38443-032318-GL-001	GW-38443-032318-GL-002
Sample Date:		05/18/2018	05/18/2018	03/23/2018	03/23/2018 Duplicate
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	R	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 UJ	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		Equipment Blank	Equipment Blank	MW-214	MW-214
Sample Name:		EB-38443-051818-JC-084	WG-38443-051818-GL-017	GW-38443-032318-GL-001	GW-38443-032318-GL-002
Sample Date:		05/18/2018	05/18/2018	03/23/2018	03/23/2018 Duplicate
Parameters	**Unit**				
Volatile Organic Compounds (Continued)					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	1.2	1.1
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.55 U	0.52 U	0.44 U	0.40 U
2,4,5-Trichlorophenol	µg/L	2.0 U	1.9 U	0.33 U	0.30 U
2,4,6-Trichlorophenol	µg/L	1.8 U	1.7 U	0.26 U	0.24 U
2,4-Dichlorophenol	µg/L	0.26 U	0.25 U	0.21 U	0.19 U
2,4-Dimethylphenol	µg/L	0.51 U	0.49 U	0.27 U	0.25 U
2,4-Dinitrophenol	µg/L	6.1 U	5.9 U	0.35 U	0.32 U
2,4-Dinitrotoluene	µg/L	2.0 U	2.0 U	0.27 U	0.25 U
2,6-Dinitrotoluene	µg/L	2.1 U	2.0 U	0.88 U	0.80 U
2-Chloronaphthalene	µg/L	0.48 U	0.46 U	0.11 U	0.10 U
2-Chlorophenol	µg/L	0.27 U	0.26 U	0.32 U	0.29 U
2-Methylnaphthalene	µg/L	0.11 U	0.11 U	0.099 U	0.090 U
2-Methylphenol	µg/L	0.21 U	0.20 U	0.19 U	0.17 U
2-Nitroaniline	µg/L	0.50 U	0.49 U	0.23 U	0.21 U
2-Nitrophenol	µg/L	0.56 U	0.54 U	0.31 U	0.28 U
3&4-Methylphenol	µg/L	0.19 U	0.18 U	0.88 U	0.80 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	1.1 U	0.41 U	0.37 U
3-Nitroaniline	µg/L	0.56 U	0.54 U	0.31 U	0.28 U
4,6-Dinitro-2-methylphenol	µg/L	2.8 U	2.7 U	2.6 U	2.4 U
4-Bromophenyl phenyl ether	µg/L	0.49 U	0.48 U	0.24 U	0.22 U
4-Chloro-3-methylphenol	µg/L	0.29 U	0.28 U	0.23 U	0.21 U
4-Chloroaniline	µg/L	0.31 U	0.30 U	R	0.21 U
4-Chlorophenyl phenyl ether	µg/L	0.55 U	0.52 U	0.33 U	0.30 U

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		Equipment Blank	Equipment Blank	MW-214	MW-214
Sample Name:		EB-38443-051818-JC-084	WG-38443-051818-GL-017	GW-38443-032318-GL-001	GW-38443-032318-GL-002
Sample Date:		05/18/2018	05/18/2018	03/23/2018	03/23/2018 Duplicate
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
4-Nitroaniline	µg/L	0.91 U	0.87 U	0.24 U	0.22 U
4-Nitrophenol	µg/L	2.2 U	2.1 U	0.32 U	0.29 U
Acenaphthene	µg/L	0.17 U	0.16 U	0.049 U	0.044 U
Acenaphthylene	µg/L	0.12 U	0.12 U	0.053 U	0.048 U
Acetophenone	µg/L	0.36 U	0.35 U	0.37 U	0.34 U
Anthracene	µg/L	0.13 U	0.13 U	0.097 U	0.088 U
Atrazine	µg/L	0.34 U	0.32 U	0.37 U	0.34 U
Benzaldehyde	µg/L	0.39 U	0.37 U	0.43 U	0.39 U
Benzo(a)anthracene	µg/L	0.17 U	0.16 U	0.032 U	0.030 U
Benzo(a)pyrene	µg/L	0.17 U	0.16 U	0.056 U	0.051 U
Benzo(b)fluoranthene	µg/L	0.15 U	0.15 U	0.043 U	0.039 U
Benzo(g,h,i)perylene	µg/L	0.18 U	0.17 U	0.051 U	0.046 U
Benzo(k)fluoranthene	µg/L	0.14 U	0.13 U	0.049 U	0.045 U
Biphenyl (1,1-Biphenyl)	µg/L	0.49 U	0.47 U	0.14 U	0.13 U
bis(2-Chloroethoxy)methane	µg/L	0.45 U	0.43 U	0.35 U	0.32 U
bis(2-Chloroethyl)ether	µg/L	0.40 U	0.38 U	0.11 U	0.10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.2 U	2.1 U	1.9 U	1.7 U
Butyl benzylphthalate (BBP)	µg/L	0.66 U	0.63 U	0.29 U	0.26 U
Caprolactam	µg/L	0.20 U	0.19 U	0.22 U	0.20 U
Carbazole	µg/L	0.49 U	0.47 U	0.31 U	0.28 U
Chrysene	µg/L	0.18 U	0.18 U	0.055 U	0.050 U
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.7 U	1.9 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.81 U	0.78 U	0.25 U	0.23 U
Dibenz(a,h)anthracene	µg/L	0.044 U	0.042 U	0.049 U	0.045 U
Dibenzofuran	µg/L	0.56 U	0.53 U	0.022 U	0.020 U
Diethyl phthalate	µg/L	3.8 U	3.6 U	0.66 U	0.66 J
Dimethyl phthalate	µg/L	0.51 U	0.49 U	0.32 U	0.29 U
Fluoranthene	µg/L	0.16 U	0.15 U	0.049 U	0.045 U
Fluorene	µg/L	0.17 U	0.16 U	0.045 U	0.041 U
Hexachlorobenzene	µg/L	0.16 U	0.15 U	0.094 U	0.085 U
Hexachlorobutadiene	µg/L	0.54 U	0.52 U	0.30 U	0.27 U
Hexachlorocyclopentadiene	µg/L	1.7 U	1.7 U	0.26 U	0.24 U
Hexachloroethane	µg/L	0.39 U	0.38 U	0.21 U	0.19 U
Indeno(1,2,3-cd)pyrene	µg/L	0.13 U	0.13 U	0.048 U	0.043 U
Isophorone	µg/L	0.32 U	0.31 U	0.30 U	0.27 U
N-Nitrosodi-n-propylamine	µg/L	0.25 U	0.24 U	0.26 U	0.24 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		Equipment Blank	Equipment Blank	MW-214	MW-214
Sample Name:		EB-38443-051818-JC-084	WG-38443-051818-GL-017	GW-38443-032318-GL-001	GW-38443-032318-GL-002
Sample Date:		05/18/2018	05/18/2018	03/23/2018	03/23/2018 Duplicate
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
N-Nitrosodiphenylamine	µg/L	0.44 U	0.42 U	0.34 U	0.31 U
Naphthalene	µg/L	0.11 U	0.10 U	0.069 U	0.063 U
Nitrobenzene	µg/L	0.51 U	0.49 U	0.044 U	0.040 U
Pentachlorophenol	µg/L	3.1 U	3.0 U	0.30 U	0.27 U
Phenanthrene	µg/L	0.17 U	0.16 U	0.068 U	0.062 U
Phenol	µg/L	0.13 U	0.12 U	0.66 U	0.60 U
Pyrene	µg/L	0.17 U	0.17 U	0.046 U	0.042 U
Herbicides					
2,4,5-T	µg/L	--	0.57 U	--	--
2,4,5-TP (Silvex)	µg/L	--	0.43 U	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	2.2 U	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	0.0050 U	0.0051 U	0.019 U	0.017 U
4,4'-DDE	µg/L	0.0041 U	0.0042 U	0.013 U	0.012 U
4,4'-DDT	µg/L	0.0046 U	0.0047 U	0.018 U	0.017 U
Aldrin	µg/L	0.0023 U	0.0023 U	0.014 U	0.013 U
alpha-BHC	µg/L	0.0019 U	0.0019 U	0.015 U	0.014 U
alpha-Chlordane	µg/L	0.0030 U	0.0031 U	0.013 U	0.012 U
Aroclor-1016 (PCB-1016)	µg/L	0.053 U	0.054 U	0.056 U	0.048 U
Aroclor-1221 (PCB-1221)	µg/L	0.054 U	0.055 U	0.10 U	0.086 U
Aroclor-1232 (PCB-1232)	µg/L	0.070 U	0.072 U	0.078 U	0.067 U
Aroclor-1242 (PCB-1242)	µg/L	0.072 U	0.074 U	0.067 U	0.057 U
Aroclor-1248 (PCB-1248)	µg/L	0.048 U	0.049 U	0.056 U	0.048 U
Aroclor-1254 (PCB-1254)	µg/L	0.038 U	0.039 U	0.033 U	0.029 U
Aroclor-1260 (PCB-1260)	µg/L	0.044 U	0.045 U	0.044 U	0.038 U
beta-BHC	µg/L	0.0044 U	0.0045 U	0.019 U	0.017 U
delta-BHC	µg/L	0.0041 U	0.0042 U	0.030 U	0.028 U
Dieldrin	µg/L	0.0022 U	0.0022 U	0.014 U	0.013 U
Endosulfan I	µg/L	0.0035 U	0.0036 U	0.017 U	0.016 U
Endosulfan II	µg/L	0.0022 U	0.0022 U	0.016 U	0.015 U
Endosulfan sulfate	µg/L	0.0035 U	0.0036 U	0.016 U	0.015 U
Endrin	µg/L	0.0024 U	0.0024 U	0.014 U	0.013 U
Endrin aldehyde	µg/L	0.0044 U	0.0045 U	0.019 U	0.017 U
Endrin ketone	µg/L	0.0038 U	0.0039 U	0.017 U	0.016 U

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		Equipment Blank	Equipment Blank	MW-214	MW-214
Sample Name:		EB-38443-051818-JC-084	WG-38443-051818-GL-017	GW-38443-032318-GL-001	GW-38443-032318-GL-002
Sample Date:		05/18/2018	05/18/2018	03/23/2018	03/23/2018 Duplicate
Parameters	**Unit**				
Pesticides/PCBs (Continued)					
gamma-BHC (lindane)	µg/L	0.0024 U	0.0024 U	0.014 U	0.013 U
gamma-Chlordane	µg/L	0.0048 U	0.0049 U	0.014 U	0.013 U
Heptachlor	µg/L	0.0031 U	0.0032 U	0.015 U	0.014 U
Heptachlor epoxide	µg/L	0.0025 U	0.0025 U	0.016 U	0.015 U
Methoxychlor	µg/L	0.0045 U	0.0046 U	0.014 U	0.013 U
Toxaphene	µg/L	0.055 U	0.056 U	0.20 U	0.19 U
Metals					
Aluminum	µg/L	34 U	34 U	35 J	34 U
Aluminum (dissolved)	µg/L	--	--	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	--	--	0.57 U	0.57 U
Arsenic	µg/L	0.75 U	0.75 U	9.3	8.3
Arsenic (dissolved)	µg/L	--	--	8.2	8.1
Barium	µg/L	2.2 U	2.2 U	150	150
Barium (dissolved)	µg/L	--	--	150	150
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	--	--	0.32 J	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	1.3	0.21 U
Cadmium (dissolved)	µg/L	--	--	0.21 U	0.21 U
Calcium	µg/L	580 U	580 U	120000	120000
Calcium (dissolved)	µg/L	--	--	120000	120000
Chromium	µg/L	0.98 U	0.98 U	1.5 J	0.98 U
Chromium (dissolved)	µg/L	--	--	0.98 U	0.98 U
Cobalt	µg/L	0.19 U	0.19 U	1.3	0.19 U
Cobalt (dissolved)	µg/L	--	--	0.19 U	0.19 U
Copper	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	--	--	1.7 U	1.7 U
Iron	µg/L	47 U	47 U	3300	3200
Iron (dissolved)	µg/L	--	--	3200	3100
Lead	µg/L	0.45 U	0.45 U	1.9	0.45 U
Lead (dissolved)	µg/L	--	--	0.45 U	0.45 U
Magnesium	µg/L	200 U	200 U	48000	49000
Magnesium (dissolved)	µg/L	--	--	48000	48000
Manganese	µg/L	2.1 U	2.3 J	230	240
Manganese (dissolved)	µg/L	--	--	230	230

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Location ID:		Equipment Blank	Equipment Blank	MW-214	MW-214
Sample Name:		EB-38443-051818-JC-084	WG-38443-051818-GL-017	GW-38443-032318-GL-001	GW-38443-032318-GL-002
Sample Date:		05/18/2018	05/18/2018	03/23/2018	03/23/2018 Duplicate
Parameters	**Unit**				
Metals (Continued)					
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	--	--	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	2.2	1.5 U
Nickel (dissolved)	µg/L	--	--	1.5 U	1.5 U
Potassium	µg/L	220 U	220 U	9700	9900
Potassium (dissolved)	µg/L	--	--	9700	9700
Selenium	µg/L	0.89 U	0.89 U	1.0 J	0.89 U
Selenium (dissolved)	µg/L	--	--	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.14 U	0.053 U
Silver (dissolved)	µg/L	--	--	0.053 U	0.053 U
Sodium	µg/L	330 U	330 U	78000	78000
Sodium (dissolved)	µg/L	--	--	78000	78000
Thallium	µg/L	0.20 U	0.20 U	0.64 J	0.20 U
Thallium (dissolved)	µg/L	--	--	0.28 J	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	1.3 J	0.82 U
Vanadium (dissolved)	µg/L	--	--	0.82 U	0.82 U
Zinc	µg/L	15 U	15 U	15 U	15 U
Zinc (dissolved)	µg/L	--	--	15 U	15 U
General Chemistry					
Cyanide (total)	mg/L	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Chloride	µg/L	--	280 U	120000	140000
Nitrate (as N)	µg/L	--	120	14 U	14 U
Nitrite (as N)	µg/L	--	14 U	14 UJ	14 UJ
Sulfate	µg/L	--	350 U	64000	64000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	--	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	--	0.0087 U	0.0087 U	0.0087 U

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-032318-GL-001	TRIPBLANK-032318-GL-002	TRIPBLANK-050718-001	TRIP BLANK-050818-002
	Sample Date:	03/23/2018	03/23/2018	05/07/2018	05/08/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	--	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	--	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	--	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	--	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	--	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	--	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	--	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	--	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	--	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	--	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	--	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	--	4.9 J	3.1 J
2-Hexanone	µg/L	1.2 U	--	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	--	0.71 U	0.71 U
Acetone	µg/L	1.8 U	--	290	230
Benzene	µg/L	0.28 U	--	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	--	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	--	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	--	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	--	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	--	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	--	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	--	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	--	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	--	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	--	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	--	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	--	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	--	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	--	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	--	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	--	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	--	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	--	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	--	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	--	0.27 U	0.27 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-032318-GL-001	TRIPBLANK-032318-GL-002	TRIPBLANK-050718-001	TRIP BLANK-050818-002
	Sample Date:	03/23/2018	03/23/2018	05/07/2018	05/08/2018
Parameters	**Unit**				
Volatile Organic Compounds (Continued)					
Methylene chloride	µg/L	0.53 U	--	2.3	1.9
o-Xylene	µg/L	0.28 U	--	0.28 U	0.28 U
Styrene	µg/L	0.23 U	--	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	--	0.30 U	0.30 U
Toluene	µg/L	0.23 U	--	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	--	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	--	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	--	0.52 J	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	--	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	--	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	--	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	--	0.24 U	0.24 U
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-032318-GL-001	TRIPBLANK-032318-GL-002	TRIPBLANK-050718-001	TRIP BLANK-050818-002
	Sample Date:	03/23/2018	03/23/2018	05/07/2018	05/08/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-032318-GL-001	TRIPBLANK-032318-GL-002	TRIPBLANK-050718-001	TRIP BLANK-050818-002
	Sample Date:	03/23/2018	03/23/2018	05/07/2018	05/08/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-032318-GL-001	TRIPBLANK-032318-GL-002	TRIPBLANK-050718-001	TRIP BLANK-050818-002
	Sample Date:	03/23/2018	03/23/2018	05/07/2018	05/08/2018
Parameters	**Unit**				
Pesticides/PCBs (Continued)					
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--
Metals					
Aluminum	µg/L	--	--	--	--
Aluminum (dissolved)	µg/L	--	--	--	--
Antimony	µg/L	--	--	--	--
Antimony (dissolved)	µg/L	--	--	--	--
Arsenic	µg/L	--	--	--	--
Arsenic (dissolved)	µg/L	--	--	--	--
Barium	µg/L	--	--	--	--
Barium (dissolved)	µg/L	--	--	--	--
Beryllium	µg/L	--	--	--	--
Beryllium (dissolved)	µg/L	--	--	--	--
Cadmium	µg/L	--	--	--	--
Cadmium (dissolved)	µg/L	--	--	--	--
Calcium	µg/L	--	--	--	--
Calcium (dissolved)	µg/L	--	--	--	--
Chromium	µg/L	--	--	--	--
Chromium (dissolved)	µg/L	--	--	--	--
Cobalt	µg/L	--	--	--	--
Cobalt (dissolved)	µg/L	--	--	--	--
Copper	µg/L	--	--	--	--
Copper (dissolved)	µg/L	--	--	--	--
Iron	µg/L	--	--	--	--
Iron (dissolved)	µg/L	--	--	--	--
Lead	µg/L	--	--	--	--
Lead (dissolved)	µg/L	--	--	--	--
Magnesium	µg/L	--	--	--	--
Magnesium (dissolved)	µg/L	--	--	--	--
Manganese	µg/L	--	--	--	--
Manganese (dissolved)	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-032318-GL-001	TRIPBLANK-032318-GL-002	TRIPBLANK-050718-001	TRIP BLANK-050818-002
	Sample Date:	03/23/2018	03/23/2018	05/07/2018	05/08/2018
Parameters	**Unit**				
Metals (Continued)					
Mercury	µg/L	--	--	--	--
Mercury (dissolved)	µg/L	--	--	--	--
Nickel	µg/L	--	--	--	--
Nickel (dissolved)	µg/L	--	--	--	--
Potassium	µg/L	--	--	--	--
Potassium (dissolved)	µg/L	--	--	--	--
Selenium	µg/L	--	--	--	--
Selenium (dissolved)	µg/L	--	--	--	--
Silver	µg/L	--	--	--	--
Silver (dissolved)	µg/L	--	--	--	--
Sodium	µg/L	--	--	--	--
Sodium (dissolved)	µg/L	--	--	--	--
Thallium	µg/L	--	--	--	--
Thallium (dissolved)	µg/L	--	--	--	--
Vanadium	µg/L	--	--	--	--
Vanadium (dissolved)	µg/L	--	--	--	--
Zinc	µg/L	--	--	--	--
Zinc (dissolved)	µg/L	--	--	--	--
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	--	--	--	--
Nitrate (as N)	µg/L	--	--	--	--
Nitrite (as N)	µg/L	--	--	--	--
Sulfate	µg/L	--	--	--	--
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	--	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	--	0.0087 U	0.0087 U	0.0087 U

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIP BLANK-051018-003	TRIPBLANK-051118-004	TRIP BLANK-051418-005	TRIP BLANK-051518-006
	Sample Date:	05/10/2018	05/11/2018	05/14/2018	05/15/2018
Parameters	**Unit**				
Volatile Organic Compounds					
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	29	1.8 U	2.7 J	7.7 J
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIP BLANK-051018-003	TRIPBLANK-051118-004	TRIP BLANK-051418-005	TRIP BLANK-051518-006
	Sample Date:	05/10/2018	05/11/2018	05/14/2018	05/15/2018
Parameters	**Unit**				
Volatile Organic Compounds (Continued)					
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	1.8
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Semi-volatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIP BLANK-051018-003	TRIPBLANK-051118-004	TRIP BLANK-051418-005	TRIP BLANK-051518-006
	Sample Date:	05/10/2018	05/11/2018	05/14/2018	05/15/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIP BLANK-051018-003	TRIPBLANK-051118-004	TRIP BLANK-051418-005	TRIP BLANK-051518-006
	Sample Date:	05/10/2018	05/11/2018	05/14/2018	05/15/2018
Parameters	**Unit**				
Semi-volatile Organic Compounds (Continued)					
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
Pesticides/PCBs					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIP BLANK-051018-003	TRIPBLANK-051118-004	TRIP BLANK-051418-005	TRIP BLANK-051518-006
	Sample Date:	05/10/2018	05/11/2018	05/14/2018	05/15/2018
Parameters	**Unit**				
Pesticides/PCBs (Continued)					
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--
Metals					
Aluminum	µg/L	--	--	--	--
Aluminum (dissolved)	µg/L	--	--	--	--
Antimony	µg/L	--	--	--	--
Antimony (dissolved)	µg/L	--	--	--	--
Arsenic	µg/L	--	--	--	--
Arsenic (dissolved)	µg/L	--	--	--	--
Barium	µg/L	--	--	--	--
Barium (dissolved)	µg/L	--	--	--	--
Beryllium	µg/L	--	--	--	--
Beryllium (dissolved)	µg/L	--	--	--	--
Cadmium	µg/L	--	--	--	--
Cadmium (dissolved)	µg/L	--	--	--	--
Calcium	µg/L	--	--	--	--
Calcium (dissolved)	µg/L	--	--	--	--
Chromium	µg/L	--	--	--	--
Chromium (dissolved)	µg/L	--	--	--	--
Cobalt	µg/L	--	--	--	--
Cobalt (dissolved)	µg/L	--	--	--	--
Copper	µg/L	--	--	--	--
Copper (dissolved)	µg/L	--	--	--	--
Iron	µg/L	--	--	--	--
Iron (dissolved)	µg/L	--	--	--	--
Lead	µg/L	--	--	--	--
Lead (dissolved)	µg/L	--	--	--	--
Magnesium	µg/L	--	--	--	--
Magnesium (dissolved)	µg/L	--	--	--	--
Manganese	µg/L	--	--	--	--
Manganese (dissolved)	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank	Trip Blank	Trip Blank
	Sample Name:	TRIP BLANK-051018-003	TRIPBLANK-051118-004	TRIP BLANK-051418-005	TRIP BLANK-051518-006
	Sample Date:	05/10/2018	05/11/2018	05/14/2018	05/15/2018
Parameters	**Unit**				
Metals (Continued)					
Mercury	µg/L	--	--	--	--
Mercury (dissolved)	µg/L	--	--	--	--
Nickel	µg/L	--	--	--	--
Nickel (dissolved)	µg/L	--	--	--	--
Potassium	µg/L	--	--	--	--
Potassium (dissolved)	µg/L	--	--	--	--
Selenium	µg/L	--	--	--	--
Selenium (dissolved)	µg/L	--	--	--	--
Silver	µg/L	--	--	--	--
Silver (dissolved)	µg/L	--	--	--	--
Sodium	µg/L	--	--	--	--
Sodium (dissolved)	µg/L	--	--	--	--
Thallium	µg/L	--	--	--	--
Thallium (dissolved)	µg/L	--	--	--	--
Vanadium	µg/L	--	--	--	--
Vanadium (dissolved)	µg/L	--	--	--	--
Zinc	µg/L	--	--	--	--
Zinc (dissolved)	µg/L	--	--	--	--
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	--	--	--	--
Nitrate (as N)	µg/L	--	--	--	--
Nitrite (as N)	µg/L	--	--	--	--
Sulfate	µg/L	--	--	--	--
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-051818-007	TRIPBLANK-051818-JC-001
	Sample Date:	05/18/2018	05/18/2018
Parameters	**Unit**		
Volatile Organic Compounds			
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U
Acetone	µg/L	8.7 J	5.2 J
Benzene	µg/L	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U
Bromoform	µg/L	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U
Carbon disulfide	µg/L	0.34 U	0.34 U
Carbon tetrachloride	µg/L	0.35 U	0.35 U
Chlorobenzene	µg/L	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U
cis-1,3-Dichloropropene	µg/L	0.26 U	0.26 U
Cyclohexane	µg/L	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.50 U	0.50 U
Ethylbenzene	µg/L	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U
Methyl acetate	µg/L	1.4 U	1.4 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-051818-007	TRIPBLANK-051818-JC-001
	Sample Date:	05/18/2018	05/18/2018
Parameters	**Unit**		
Volatile Organic Compounds (Continued)			
Methylene chloride	µg/L	0.65 J	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	0.31 U	0.31 U
Trichloroethene	µg/L	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U
Vinyl chloride	µg/L	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U
Semi-volatile Organic Compounds			
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--
2,4,5-Trichlorophenol	µg/L	--	--
2,4,6-Trichlorophenol	µg/L	--	--
2,4-Dichlorophenol	µg/L	--	--
2,4-Dimethylphenol	µg/L	--	--
2,4-Dinitrophenol	µg/L	--	--
2,4-Dinitrotoluene	µg/L	--	--
2,6-Dinitrotoluene	µg/L	--	--
2-Chloronaphthalene	µg/L	--	--
2-Chlorophenol	µg/L	--	--
2-Methylnaphthalene	µg/L	--	--
2-Methylphenol	µg/L	--	--
2-Nitroaniline	µg/L	--	--
2-Nitrophenol	µg/L	--	--
3&4-Methylphenol	µg/L	--	--
3,3'-Dichlorobenzidine	µg/L	--	--
3-Nitroaniline	µg/L	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--
4-Bromophenyl phenyl ether	µg/L	--	--
4-Chloro-3-methylphenol	µg/L	--	--
4-Chloroaniline	µg/L	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	**Trip Blank**	**Trip Blank**
	Sample Name:	**TRIPBLANK-051818-007**	**TRIPBLANK-051818-JC-001**
	Sample Date:	**05/18/2018**	**05/18/2018**
Parameters	**Unit**		
Semi-volatile Organic Compounds (Continued)			
4-Nitroaniline	µg/L	--	--
4-Nitrophenol	µg/L	--	--
Acenaphthene	µg/L	--	--
Acenaphthylene	µg/L	--	--
Acetophenone	µg/L	--	--
Anthracene	µg/L	--	--
Atrazine	µg/L	--	--
Benzaldehyde	µg/L	--	--
Benzo(a)anthracene	µg/L	--	--
Benzo(a)pyrene	µg/L	--	--
Benzo(b)fluoranthene	µg/L	--	--
Benzo(g,h,i)perylene	µg/L	--	--
Benzo(k)fluoranthene	µg/L	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--
bis(2-Chloroethyl)ether	µg/L	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--
Caprolactam	µg/L	--	--
Carbazole	µg/L	--	--
Chrysene	µg/L	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--
Dibenz(a,h)anthracene	µg/L	--	--
Dibenzofuran	µg/L	--	--
Diethyl phthalate	µg/L	--	--
Dimethyl phthalate	µg/L	--	--
Fluoranthene	µg/L	--	--
Fluorene	µg/L	--	--
Hexachlorobenzene	µg/L	--	--
Hexachlorobutadiene	µg/L	--	--
Hexachlorocyclopentadiene	µg/L	--	--
Hexachloroethane	µg/L	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--
Isophorone	µg/L	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-051818-007	TRIPBLANK-051818-JC-001
	Sample Date:	05/18/2018	05/18/2018
Parameters	**Unit**		
Semi-volatile Organic Compounds (Continued)			
N-Nitrosodiphenylamine	µg/L	--	--
Naphthalene	µg/L	--	--
Nitrobenzene	µg/L	--	--
Pentachlorophenol	µg/L	--	--
Phenanthrene	µg/L	--	--
Phenol	µg/L	--	--
Pyrene	µg/L	--	--
Herbicides			
2,4,5-T	µg/L	--	--
2,4,5-TP (Silvex)	µg/L	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--
Pesticides/PCBs			
4,4'-DDD	µg/L	--	--
4,4'-DDE	µg/L	--	--
4,4'-DDT	µg/L	--	--
Aldrin	µg/L	--	--
alpha-BHC	µg/L	--	--
alpha-Chlordane	µg/L	--	--
Aroclor-1016 (PCB-1016)	µg/L	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--
beta-BHC	µg/L	--	--
delta-BHC	µg/L	--	--
Dieldrin	µg/L	--	--
Endosulfan I	µg/L	--	--
Endosulfan II	µg/L	--	--
Endosulfan sulfate	µg/L	--	--
Endrin	µg/L	--	--
Endrin aldehyde	µg/L	--	--
Endrin ketone	µg/L	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	Trip Blank	Trip Blank
	Sample Name:	TRIPBLANK-051818-007	TRIPBLANK-051818-JC-001
	Sample Date:	05/18/2018	05/18/2018
Parameters	**Unit**		
Pesticides/PCBs (Continued)			
gamma-BHC (lindane)	µg/L	--	--
gamma-Chlordane	µg/L	--	--
Heptachlor	µg/L	--	--
Heptachlor epoxide	µg/L	--	--
Methoxychlor	µg/L	--	--
Toxaphene	µg/L	--	--
Metals			
Aluminum	µg/L	--	--
Aluminum (dissolved)	µg/L	--	--
Antimony	µg/L	--	--
Antimony (dissolved)	µg/L	--	--
Arsenic	µg/L	--	--
Arsenic (dissolved)	µg/L	--	--
Barium	µg/L	--	--
Barium (dissolved)	µg/L	--	--
Beryllium	µg/L	--	--
Beryllium (dissolved)	µg/L	--	--
Cadmium	µg/L	--	--
Cadmium (dissolved)	µg/L	--	--
Calcium	µg/L	--	--
Calcium (dissolved)	µg/L	--	--
Chromium	µg/L	--	--
Chromium (dissolved)	µg/L	--	--
Cobalt	µg/L	--	--
Cobalt (dissolved)	µg/L	--	--
Copper	µg/L	--	--
Copper (dissolved)	µg/L	--	--
Iron	µg/L	--	--
Iron (dissolved)	µg/L	--	--
Lead	µg/L	--	--
Lead (dissolved)	µg/L	--	--
Magnesium	µg/L	--	--
Magnesium (dissolved)	µg/L	--	--
Manganese	µg/L	--	--
Manganese (dissolved)	µg/L	--	--

Table 2

Analytical Results Summary
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

	Location ID:	**Trip Blank**	**Trip Blank**
	Sample Name:	**TRIPBLANK-051818-007**	**TRIPBLANK-051818-JC-001**
	Sample Date:	**05/18/2018**	**05/18/2018**
Parameters	**Unit**		
Metals (Continued)			
Mercury	µg/L	--	--
Mercury (dissolved)	µg/L	--	--
Nickel	µg/L	--	--
Nickel (dissolved)	µg/L	--	--
Potassium	µg/L	--	--
Potassium (dissolved)	µg/L	--	--
Selenium	µg/L	--	--
Selenium (dissolved)	µg/L	--	--
Silver	µg/L	--	--
Silver (dissolved)	µg/L	--	--
Sodium	µg/L	--	--
Sodium (dissolved)	µg/L	--	--
Thallium	µg/L	--	--
Thallium (dissolved)	µg/L	--	--
Vanadium	µg/L	--	--
Vanadium (dissolved)	µg/L	--	--
Zinc	µg/L	--	--
Zinc (dissolved)	µg/L	--	--
General Chemistry			
Cyanide (total)	mg/L	--	--
Chloride	µg/L	--	--
Nitrate (as N)	µg/L	--	--
Nitrite (as N)	µg/L	--	--
Sulfate	µg/L	--	--
Fumigant			
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	--
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	--

Notes:

-- - Not applicable
PCB - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated

Table 3

Analytical Methods
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Fumigants	SW-846 8011	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Water	7	40
Herbicides	SW-846 8151A	Water	7	40
Total & Dissolved Metals	SW-846 6020	Water	-	180
Total & Dissolved Mercury	SW-846 7470A	Water	-	28
Cyanide	SW-846 9012B	Water	-	14
Anions (Chloride, Sulfate, Nitrate, Nitrite)	EPA 300.0	Water	-	28 48 hours for Nitrate and Nitrite

Notes:

- - Not applicable
EPA - "Methods for Chemical Analysis of Water and Wastes," EPA-600/4-79-020, March 1983 (with all subsequent revisions).
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisio

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	1,1-Dichloroethane	05/29/2018	36	WG-38443-051818-GL-015	0.30 J	µg/L
				WG-38443-051818-GL-016	0.25 UJ	µg/L
VOCs	1,1-Dichloroethene	05/29/2018	36	WG-38443-051818-GL-015	0.27 UJ	µg/L
				WG-38443-051818-GL-016	0.27 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	05/29/2018	53	WG-38443-051818-GL-015	0.27 UJ	µg/L
				WG-38443-051818-GL-016	0.27 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	05/29/2018	100	WG-38443-051818-GL-015	0.42 UJ	µg/L
				WG-38443-051818-GL-016	0.42 UJ	µg/L
VOCs	Chloroethane	05/29/2018	54	WG-38443-051818-GL-015	0.41 UJ	µg/L
				WG-38443-051818-GL-016	0.41 UJ	µg/L
VOCs	Chloroform (Trichloromethane)	05/29/2018	32	WG-38443-051818-GL-015	0.31 UJ	µg/L
				WG-38443-051818-GL-016	0.31 UJ	µg/L
VOCs	Chloromethane (Methyl chloride)	05/29/2018	54	WG-38443-051818-GL-015	0.43 UJ	µg/L
				WG-38443-051818-GL-016	0.43 UJ	µg/L
VOCs	cis-1,2-Dichloroethene	05/29/2018	35	WG-38443-051818-GL-015	0.90 J	µg/L
				WG-38443-051818-GL-016	1.8 J	µg/L
VOCs	cis-1,3-Dichloropropene	05/29/2018	37	WG-38443-051818-GL-015	0.26 UJ	µg/L
				WG-38443-051818-GL-016	0.26 UJ	µg/L
VOCs	Dibromochloromethane	05/29/2018	25	WG-38443-051818-GL-015	0.25 UJ	µg/L
				WG-38443-051818-GL-016	0.25 UJ	µg/L
VOCs	Dichlorodifluoromethane (CFC-12)	05/29/2018	89	WG-38443-051818-GL-015	0.50 UJ	µg/L
				WG-38443-051818-GL-016	0.50 UJ	µg/L
VOCs	Methylene chloride	05/29/2018	58	WG-38443-051818-GL-015	0.53 UJ	µg/L
				WG-38443-051818-GL-016	0.53 UJ	µg/L

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	trans-1,2-Dichloroethene	05/29/2018	41	WG-38443-051818-GL-015	0.29 UJ	µg/L
				WG-38443-051818-GL-016	0.29 UJ	µg/L
VOCs	trans-1,3-Dichloropropene	05/29/2018	41	WG-38443-051818-GL-015	0.31 UJ	µg/L
				WG-38443-051818-GL-016	0.31 UJ	µg/L
VOCs	Vinyl chloride	05/29/2018	56	WG-38443-051818-GL-015	0.45 UJ	µg/L
				WG-38443-051818-GL-016	0.45 UJ	µg/L
Pesticides	Methoxychlor	05/23/2018	38	WG-38443-051518-GL-013	0.0049 UJ	µg/L
				WG-38443-051518-GL-014	0.0052 UJ	µg/L
Pesticides	4,4'-DDT	05/31/2018	30	WG-38443-051818-GL-016	0.059 UJ	µg/L
Pesticides	Methoxychlor	05/31/2018	40	WG-38443-051818-GL-016	0.057 UJ	µg/L
Pesticides	4,4'-DDT	06/01/2018	28	WG-38443-051818-GL-015	0.0053 UJ	µg/L
Pesticides	Methoxychlor	06/01/2018	42	WG-38443-051818-GL-015	0.0052 UJ	µg/L

Notes:

%D - Percent difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
General Chemistry	Cyanide (total)	05/21/2018	0.0075 J	WG-38443-051118-GL-011	0.010	0.010 U	mg/L
				WG-38443-051418-GL-012	0.012	0.012 U	mg/L

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Instrument Blanks
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Analyte	Blank ID	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
Metals	Silver	CCB	03/27/2018	0.078 J	GW-38443-032318-GL-001	0.14 J	0.14 U	µg/L

Notes:

CCB - Continuing Calibration Blank
J - Estimated concentration
U - Not detected at the associated reporting limit

Table 7

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	1,1-Dichloroethane	05/29/2018	122	74-120	WG-38443-051818-GL-015	0.30 J	µg/L

Notes:

J - Estimated concentration
LCS - Laboratory Control Sample
VOCs - Volatile Organic Compounds

Table 8

Qualified Sample Results Due to Outlying MS/MSD Results
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result		Units
VOCs	GW-38443-032318-GL-001	2-Butanone	0	0	NC	34-153	23	R		µg/L
		Methyl acetate	49	59	18	52-139	14	1.4	UJ	µg/L
SVOCs	GW-38443-032318-GL-001	4-Chloroaniline	10	9	10	10-120	35	R		µg/L
General Chemistry	GW-38443-032318-GL-001	Nitrite (as N)	34	31	10	80-120	15	14	UJ	µg/L
	GW-38443-032318-GL-002							14	UJ	µg/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
R - Rejected
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 9

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	05/07/2018	Acetone	290	WG-38443-050718-GL-001	2.0 J	290 U	µg/L
VOCs	05/07/2018	Trichloroethene	0.52 J	WG-38443-050818-GL-002	0.39 J	0.52 U	µg/L

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 10

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	EB-38443-051018-GL-006	05/10/2018	Aluminum	2200	WG-38443-051018-GL-009	1800	2200 U	µg/L
			Aluminum (dissolved)		WG-38443-051018-GL-007	68	2200 U	µg/L
			Aluminum (dissolved)		WG-38443-051018-GL-008	140	2200 U	µg/L
			Aluminum (dissolved)		WG-38443-051018-GL-009	62	2200 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Antimony	1.0 J	WG-38443-051018-GL-007	1.1 J	1.1 U	µg/L
			Antimony (dissolved)		WG-38443-051018-GL-007	1.1 J	1.1 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Arsenic	2.4 J	WG-38443-051018-GL-008	2.9 J	2.9 U	µg/L
			Arsenic		WG-38443-051018-GL-009	1.4 J	2.4 U	µg/L
			Arsenic (dissolved)		WG-38443-051018-GL-007	0.84 J	2.4 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Beryllium	0.52 J	WG-38443-051018-GL-007	0.53 J	0.53 U	µg/L
			Beryllium		WG-38443-051018-GL-008	0.32 J	0.52 U	µg/L
			Beryllium (dissolved)		WG-38443-051018-GL-007	0.57 J	0.57 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Cadmium (dissolved)	0.38 J	WG-38443-051018-GL-007	0.22 J	0.38 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Chromium	30	WG-38443-051018-GL-007	13	30 U	µg/L
			Chromium		WG-38443-051018-GL-008	7.6	30 U	µg/L
			Chromium		WG-38443-051018-GL-009	5.6	30 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Cobalt	2.8	WG-38443-051018-GL-008	2.1	2.8 U	µg/L
			Cobalt		WG-38443-051018-GL-009	3.2	3.2 U	µg/L
			Cobalt (dissolved)		WG-38443-051018-GL-008	0.83 J	2.8 U	µg/L
			Cobalt (dissolved)		WG-38443-051018-GL-009	2.3	2.8 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Copper	52	WG-38443-051018-GL-007	27	52 U	µg/L
			Copper		WG-38443-051018-GL-008	6.6	52 U	µg/L
			Copper		WG-38443-051018-GL-009	7.2	52 U	µg/L
			Copper (dissolved)		WG-38443-051018-GL-007	3.3	52 U	µg/L
			Copper (dissolved)		WG-38443-051018-GL-008	2.4	52 U	µg/L
			Copper (dissolved)		WG-38443-051018-GL-009	1.8 J	52 U	µg/L

Table 10

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	EB-38443-051018-GL-006	05/10/2018	Iron	7300	WG-38443-051018-GL-008	6100	7300 U	µg/L
			Iron		WG-38443-051018-GL-009	3200	7300 U	µg/L
			Iron (dissolved)		WG-38443-051018-GL-007	410	7300 U	µg/L
			Iron (dissolved)		WG-38443-051018-GL-008	1600	7300 U	µg/L
			Iron (dissolved)		WG-38443-051018-GL-009	650	7300 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Lead	3.8	WG-38443-051018-GL-007	4.3	4.3 U	µg/L
			Lead		WG-38443-051018-GL-008	1.6	3.8 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Manganese	200	WG-38443-051018-GL-008	220	220 U	µg/L
			Manganese (dissolved)		WG-38443-051018-GL-008	110	200 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Nickel	32	WG-38443-051018-GL-007	32	32 U	µg/L
			Nickel		WG-38443-051018-GL-008	9.6	32 U	µg/L
			Nickel		WG-38443-051018-GL-009	23	32 U	µg/L
			Nickel (dissolved)		WG-38443-051018-GL-007	16	32 U	µg/L
			Nickel (dissolved)		WG-38443-051018-GL-008	5.5	32 U	µg/L
			Nickel (dissolved)		WG-38443-051018-GL-009	19	32 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Potassium	3300	WG-38443-051018-GL-008	3500	3500 U	µg/L
			Potassium (dissolved)		WG-38443-051018-GL-008	2400	3300 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Selenium	1.4 J	WG-38443-051018-GL-007	0.97 J	1.4 U	µg/L
			Selenium		WG-38443-051018-GL-008	2.9 J	2.9 U	µg/L
			Selenium		WG-38443-051018-GL-009	2.3 J	2.3 U	µg/L
			Selenium (dissolved)		WG-38443-051018-GL-008	2.5 J	2.5 U	µg/L
			Selenium (dissolved)		WG-38443-051018-GL-009	2.4 J	2.4 U	µg/L

Table 10

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	EB-38443-051018-GL-006	05/10/2018	Thallium	0.33 J	WG-38443-051018-GL-007	0.60 J	0.60 U	µg/L
			Thallium (dissolved)		WG-38443-051018-GL-007	0.39 J	0.39 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Vanadium	5.8	WG-38443-051018-GL-008	7.5	7.5 U	µg/L
			Vanadium		WG-38443-051018-GL-009	4.3 J	5.8 U	µg/L
Metals	EB-38443-051018-GL-006	05/10/2018	Zinc	170	WG-38443-051018-GL-007	76	170 U	µg/L
			Zinc		WG-38443-051018-GL-008	47	170 U	µg/L
			Zinc		WG-38443-051018-GL-009	38	170 U	µg/L
			Zinc (dissolved)		WG-38443-051018-GL-007	19 J	170 U	µg/L
			Zinc (dissolved)		WG-38443-051018-GL-008	23	170 U	µg/L
			Zinc (dissolved)		WG-38443-051018-GL-009	17 J	170 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration

Table 11

Qualified Sample Data Due to Discrepancies Between Total and Dissolved Results
Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
March 2018-May 2018

Parameter	Sample ID	Analyte	%D	Criteria (percent)	Qualified Total Result	Qualified Dissolved Result	Units
Metals	WG-38443-050818-GL-004	Copper	82	20	2.8 J	5.1 J	µg/L
Metals	WG-38443-051118-GL-010	Copper	91	20	3.3 J	6.3 J	µg/L
		Iron	24		3300 J	4100 J	µg/L
		Nickel	92		7.3 J	14 J	µg/L
		Zinc	70		20 J	34 J	µg/L
Metals	WG-38443-051518-GL-014	Copper	247	20	1.7 UJ	5.9 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated

Memorandum

December 6, 2018

To:	Julian Hayward	Ref. No.:	038443-370
From:	Angela Bown/cs/46-NF	Tel:	513-942-4750
CC:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

1. Introduction

This document details a validation of analytical results for water samples collected in support of the VAS Groundwater Sampling Program at the Moraine, Ohio site during July through October 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times with the exception of a few unpreserved samples for volatile organic compound (VOC) analysis. Table 4 presents the qualified sample results.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to VOC and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Fumigants and Herbicides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the coefficient of determination (R^2) is 0.990 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide	85 - 115%
Instrumental Wet Chemistry	Anions	90 - 110%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 5.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period with the exception of one herbicide result presented with a qualifier in Table 5.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. Most analyte recoveries reported for the CCVs were within the specified limits. Table 6 presents the qualified sample data due to outlying calibration criteria.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Table 7 presents the sample results that were qualified as non-detect due to analyte concentrations in the method blanks.

8.2 Inorganic Analyses

Upon review of the ICBs, CCBs, and method blanks, it was noted that metal concentrations were observed above the method detection limit (MDL). Most investigative samples associated with the low-level detections reported either non-detect concentrations or concentrations significantly greater than the associated laboratory blank concentrations for the analytes of interest. These sample results were not impacted by the contamination detected. Associated positive sample results with similar concentrations to the levels reported in the blanks were qualified as non-detect (see Table 7 and Table 8).

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples were not assessed. Most remaining surrogate recoveries were within the laboratory criteria. Where surrogate recoveries were above the control limits, non-detect sample results were not impacted by the implied high bias and were not qualified. Table 9 presents the sample results that were qualified due to outlying surrogate recoveries.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 30-125 percent.

All inorganic IS recoveries were within the acceptance limits.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. Most LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision. Table 10 presents the sample results that were qualified as estimated due to outlying LCS recoveries.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision with the exception of the sample results presented with qualifiers in Table 11.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of 40 trip blank samples, 8 rinse blank samples, and 8 field duplicate sample sets.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, 40 trip blanks were submitted to the laboratory for VOC analysis. Several target analytes were detected in the trip blank samples. Table 12 presents the qualified sample results. The remaining results were non-detect for the compounds of interest.

15.2 Rinse Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, 8 field blanks were submitted for analysis, as identified in Table 1.Table 13 presents the sample results that were qualified as non-detect due to analyte concentrations in the rinse blank samples. The remaining results were non-detect for the analytes of interest.

15.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, 8 field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 14 presents the sample results that were qualified due to variability in the field duplicate results.

16. Total versus Dissolved Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20%D). Several dissolved results were greater than the total results and were in exceedance of the method variability. The associated results were qualified as estimated in Table 15.

17. Analyte Reporting

The laboratory reported detected results down to the laboratory's MDL for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample-specific MDL in Table 2.

18. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification

criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide and PCB analyses were performed using dual column analyses. All the results showed good correlation between the two columns (<40 RPD).

19. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Herbicides**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
GW-38443-073118-JC-018	BH11-18	Water	07/31/2018	15:00	X	X	X	X	X	X	X	X	X	X	
TB-38443-073118-001	-	Water	07/31/2018	-	X										Trip Blank
GW-38443-080218-JC-019	BH11-18	Water	08/02/2018	08:25	X				X						
TB-38443-080218-JC-002	-	Water	08/02/2018	-	X				X						Trip Blank
GW-38443-081518-JC-120	VAS-42	Water	08/15/2018	14:50	X				X		X	X		X	MS/MSD
TB-38443-081518-JC-001	-	Water	08/15/2018	-	X				X						Trip Blank
GW-38443-081618-JC-121	VAS-42	Water	08/16/2018	09:40	X				X		X	X		X	MS/MSD
TB-38443-081618-JC-002	-	Water	08/16/2018	-	X				X						Trip Blank
GW-38443-081618-JC-122	VAS-42	Water	08/16/2018	11:30	X				X		X	X		X	
GW-38443-081618-JC-123	VAS-42	Water	08/16/2018	13:45	X				X		X	X		X	
GW-38443-081718-JC-124	VAS-42	Water	08/17/2018	08:45	X				X		X	X		X	
GW-38443-081718-JC-125	VAS-42	Water	08/17/2018	08:50	X				X		X	X		X	FD(GW-38443-081718-JC-124)
TB-38443-081718-JC-003	-	Water	08/17/2018	-	X				X						Trip Blank
GW-38443-081718-JC-126	VAS-42	Water	08/17/2018	15:45	X				X		X	X		X	
GW-38443-082018-JC-127	VAS-42	Water	08/20/2018	11:35	X				X		X	X		X	MS/MSD
TB-38443-082018-JC-004	-	Water	08/20/2018	-	X				X						Trip Blank
GW-38443-082118-JC-128	VAS-42	Water	08/21/2018	08:40	X				X						
TB-38443-082118-JC-005	-	Water	08/21/2018	-	X				X						Trip Blank
RB-38443-082118-JC-129	-	Water	08/21/2018	09:50	X				X		X	X		X	Rinse Blank
GW-38443-082118-JC-130	VAS-42	Water	08/21/2018	12:15	X				X		X	X		X	
GW-38443-082118-JC-131	VAS-42	Water	08/21/2018	15:00	X				X		X	X		X	MS/MSD
GW-38443-082218-JC-132	VAS-42	Water	08/22/2018	09:20	X				X		X	X		X	
GW-38443-082218-JC-133	VAS-42	Water	08/22/2018	12:15	X				X		X	X		X	
GW-38443-082318-JC-134	VAS-43	Water	08/23/2018	11:10	X				X		X	X		X	MS/MSD
GW-38443-082318-JC-135	VAS-43	Water	08/23/2018	11:15	X				X		X	X		X	FD(GW-38443-082318-JC-134)
TB-38443-082318-JC-007	-	Water	08/23/2018	-	X				X						Trip Blank
GW-38443-082318-JC-136	VAS-43	Water	08/23/2018	13:10	X				X		X	X		X	
GW-38443-082318-JC-137	VAS-43	Water	08/23/2018	14:45	X				X		X	X		X	
TB-38443-082218-JC-006	-	Water	08/23/2018	-	X				X						Trip Blank
GW-38443-082418-JC-138	VAS-43	Water	08/24/2018	08:35	X				X		X	X		X	

Table 1

Sample Collection and Analysis Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Herbicides**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
TB-38443-082418-JC-008	-	Water	08/24/2018	-	X				X						Trip Blank
GW-38443-082418-JC-139	VAS-43	Water	08/24/2018	11:35	X				X		X	X		X	
GW-38443-082418-JC-140	VAS-43	Water	08/24/2018	14:00	X				X		X	X		X	
GW-38443-082718-JC-141	VAS-43	Water	08/27/2018	12:00	X				X		X	X		X	
TB-38443-082718-JC-009	-	Water	08/27/2018	-	X				X						Trip Blank
RB-38443-082718-JC-142	-	Water	08/27/2018	13:00	X				X		X	X		X	Rinse Blank
GW-38443-082718-JC-143	VAS-43	Water	08/27/2018	15:35	X				X		X	X		X	
GW-38443-082818-JC-144	VAS-43	Water	08/28/2018	10:35	X				X		X	X		X	MS/MSD
TB-38443-082818-JC-010	-	Water	08/28/2018	-	X				X						Trip Blank
GW-38443-082818-JC-145	VAS-43	Water	08/28/2018	13:10	X				X		X	X		X	
GW-38443-082918-JC-146	VAS-43	Water	08/29/2018	08:35	X				X		X	X		X	MS/MSD
TB-38443-082918-JC-011	-	Water	08/29/2018	-	X				X						Trip Blank
GW-38443-082918-JC-147	VAS-43	Water	08/29/2018	11:40	X				X		X	X		X	
GW-38443-082918-JC-148	VAS-43	Water	08/29/2018	15:05	X				X		X	X		X	
GW-38443-083018-JC-149	VAS-43	Water	08/30/2018	12:00	X				X		X	X		X	
TB-38443-083018-JC-012	-	Water	08/30/2018	-	X				X						Trip Blank
GW-38443-083118-JC-150	VAS-43	Water	08/31/2018	08:05	X				X		X	X		X	
TB-38443-083118-JC-013	-	Water	08/31/2018	-	X				X						Trip Blank
GW-38443-090418-JC-151	BH16-18	Water	09/04/2018	15:05	X				X		X	X		X	MS/MSD
TB-38443-090418-JC-014	-	Water	09/04/2018	-	X				X						Trip Blank
GW-38443-090518-JC-152	BH15-18	Water	09/05/2018	12:00	X				X		X	X		X	
GW-38443-090518-JC-153	BH15-18	Water	09/05/2018	12:05	X				X		X	X		X	FD(GW-38443-090518-JC-152)
TB-38443-090518-JC-015	-	Water	09/05/2018	-	X				X						Trip Blank
RB-38443-090718-JC-154	-	Water	09/07/2018	07:45	X				X		X	X		X	Rinse Blank
TB-38443-090718-JC-016	-	Water	09/07/2018	-	X				X						Trip Blank
GW-38443-090718-JC-155	VAS-40	Water	09/07/2018	09:05	X				X		X	X		X	
GW-38443-090718-JC-156	VAS-40	Water	09/07/2018	11:30	X				X		X	X		X	
GW-38443-090718-JC-157	VAS-40	Water	09/07/2018	14:40	X				X		X	X		X	
GW-38443-091018-JC-158	VAS-40	Water	09/10/2018	11:30	X				X		X	X		X	MS/MSD
TB-38443-091018-JC-017	-	Water	09/10/2018	-	X				X						Trip Blank

Table 1

Sample Collection and Analysis Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Herbicides**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
GW-38443-091018-JC-159	VAS-40	Water	09/10/2018	14:40	X				X		X	X		X	
GW-38443-091118-JC-160	VAS-40	Water	09/11/2018	08:30	X				X		X	X		X	MS/MSD
TB-38443-091118-JC-018	-	Water	09/11/2018	-	X				X						Trip Blank
GW-38443-091118-JC-161	VAS-40	Water	09/11/2018	11:20	X				X		X	X		X	
GW-38443-091118-JC-162	VAS-40	Water	09/11/2018	15:10	X				X		X	X		X	
GW-38443-091118-JC-163	VAS-40	Water	09/11/2018	15:15	X				X		X	X		X	FD(GW-38443-091118-JC-162)
RB-38443-091218-JC-164	-	Water	09/12/2018	09:20	X				X		X	X		X	Rinse Blank
GW-38443-091218-JC-165	VAS-40	Water	09/12/2018	10:40	X				X		X	X		X	
TB-38443-091218-JC-019	-	Water	09/12/2018	-	X				X						Trip Blank
GW-38443-091218-JC-166	VAS-40	Water	09/12/2018	13:55	X				X		X	X		X	
GW-38443-091318-JC-167	VAS-40	Water	09/13/2018	09:25	X				X		X	X		X	
TB-38443-091318-JC-020	-	Water	09/13/2018	-	X				X						Trip Blank
GW-38443-091318-JC-168	VAS-40	Water	09/13/2018	13:25	X				X		X	X		X	
GW-38443-091418-JC-169	VAS-40	Water	09/14/2018	08:30	X				X		X	X		X	MS/MSD
TB-38443-091418-JC-021	-	Water	09/14/2018	-	X				X						Trip Blank
GW-38443-091418-JC-170	VAS-40	Water	09/14/2018	12:00	X				X		X	X		X	
GW-38443-091718-JC-171	BH14-18	Water	09/17/2018	13:30	X	X		X	X		X	X	X	X	

Table 1

Sample Collection and Analysis Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Herbicides**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
TB-38443-091718-JC-022	-	Water	09/17/2018	-	X				X						Trip Blank
GW-38443-091818-JC-172	VAS-37	Water	09/18/2018	11:30	X	X	X	X	X		X	X	X	X	
TB-38443-091818-JC-023	-	Water	09/18/2018	-	X				X						Trip Blank
GW-38443-091918-JC-173	VAS-37	Water	09/19/2018	08:20	X				X		X	X		X	
TB-38443-091918-JC-024	-	Water	09/19/2018	-	X				X						Trip Blank
GW-38443-091918-JC-174	VAS-37	Water	09/19/2018	11:00	X				X		X	X		X	
GW-38443-091918-JC-175	VAS-37	Water	09/19/2018	12:25	X	X	X	X	X		X	X	X	X	
GW-38443-092018-JC-176	VAS-37	Water	09/20/2018	10:10	X				X		X	X		X	
GW-38443-092018-JC-177	VAS-37	Water	09/20/2018	10:15	X				X		X	X		X	FD(GW-38443-092018-JC-176)
TB-38443-092018-JC-025	-	Water	09/20/2018	-	X				X						Trip Blank
RB-38443-092018-JC-178	-	Water	09/20/2018	11:25	X				X		X	X		X	Rinse Blank
GW-38443-092018-JC-179	VAS-37	Water	09/20/2018	13:25	X				X		X	X		X	
GW-38443-092118-JC-180	VAS-37	Water	09/21/2018	09:05	X				X		X	X		X	
TB-38443-092118-JC-026	-	Water	09/21/2018	-	X				X						Trip Blank
GW-38443-092418-JC-181	VAS-37	Water	09/24/2018	09:05	X				X		X	X		X	MS/MSD
GW-38443-092418-JC-182	VAS-37	Water	09/24/2018	12:00	X				X		X	X		X	
TB-38443-092418-JC-027	-	Water	09/24/2018	-	X				X						Trip Blank
GW-38443-092518-JC-183	VAS-22b	Water	09/25/2018	15:45	X				X		X	X		X	MS/MSD
TB-38443-092518-JC-02	-	Water	09/25/2018	-	X				X						Trip Blank
GW-38443-092618-JC-184	VAS-22b	Water	09/26/2018	11:15	X				X		X	X		X	MS/MSD
TB-38443-092618-JC-029	-	Water	09/26/2018	-	X				X						Trip Blank
GW-38443-092618-JC-185	VAS-22b	Water	09/26/2018	14:20	X				X		X	X		X	
GW-38443-092718-JC-186	VAS-22b	Water	09/27/2018	10:10	X				X		X	X		X	

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Sample Collection and Analysis Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Herbicides**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
GW-38443-092718-JC-187	VAS-22b	Water	09/27/2018	10:15	X				X		X	X		X	FD(GW-38443-092718-JC-186)
TB-38443-092718-JC-030	-	Water	09/27/2018	-	X				X						Trip Blank
GW-38443-092718-JC-188	VAS-22b	Water	09/27/2018	12:15	X				X		X	X		X	
GW-38443-092718-JC-189	VAS-22b	Water	09/27/2018	14:15	X				X		X	X		X	
RB-38443-100218-JC-190	-	Water	10/02/2018	10:10	X				X		X	X		X	Rinse Blank
TB-38443-100218-JC-031	-	Water	10/02/2018	-	X				X						Trip Blank
GW-38443-100218-JC-191	VAS-22b	Water	10/02/2018	11:50	X				X		X	X		X	
GW-38443-100218-JC-192	VAS-22b	Water	10/02/2018	14:40	X				X		X	X		X	
GW-38443-100318-JC-193	VAS-22b	Water	10/03/2018	09:00	X				X		X	X		X	
TB-38443-100318-JC-032	-	Water	10/03/2018	-	X				X						Trip Blank
GW-38443-100418-JC-194	VAS-36	Water	10/04/2018	11:40	X				X		X	X		X	
TB-38443-100418-JC-033	-	Water	10/04/2018	-	X				X						Trip Blank
GW-38443-100418-JC-195	VAS-36	Water	10/04/2018	13:05	X				X		X	X		X	
GW-38443-100418-JC-196	VAS-36	Water	10/04/2018	14:35	X				X		X	X		X	
GW-38443-100518-JC-197	VAS-36	Water	10/05/2018	08:30	X				X		X	X		X	
TB-38443-100518-JC-034	-	Water	10/05/2018	-	X				X						Trip Blank
EB-38443-100518-JC-198	-	Water	10/05/2018	09:10	X				X		X	X		X	Equipment Blank
GW-38443-100518-JC-199	VAS-36	Water	10/05/2018	10:35	X				X		X	X		X	
GW-38443-100518-JC-200	VAS-36	Water	10/05/2018	12:20	X				X		X	X		X	
GW-38443-100818-JC-201	VAS-36	Water	10/08/2018	10:05	X				X		X	X		X	MS/MSD
TB-38443-100818-JC-035	-	Water	10/08/2018	-	X				X						Trip Blank
GW-38443-100818-JC-202	VAS-36	Water	10/08/2018	12:10	X				X		X	X		X	

Table 1

Sample Collection and Analysis Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Pesticides**	**PCBs**	**Fumigants**	**Herbicides**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
GW-38443-100818-JC-203	VAS-36	Water	10/08/2018	12:15	X				X		X	X		X	FD(GW-38443-100818-JC-202)
GW-38443-100818-JC-204	VAS-36	Water	10/08/2018	14:30	X				X		X	X		X	
GW-38443-100918-JC-205	VAS-36	Water	10/09/2018	08:35	X				X		X	X		X	
TB-38443-100918-JC-036	-	Water	10/09/2018	-	X				X						Trip Blank
GW-38443-100918-JC-206	VAS-36	Water	10/09/2018	12:40	X				X		X	X		X	
GW-38443-101018-JC-207	VAS-36	Water	10/10/2018	10:00	X				X		X	X		X	
TB-38443-101018-JC-037	-	Water	10/10/2018	-	X				X						Trip Blank
GW-38443-101018-JC-208	VAS-36	Water	10/10/2018	14:30	X				X		X	X		X	
GW-38443-101018-JC-209	VAS-36	Water	10/10/2018	14:35	X				X		X	X		X	FD(GW-38443-101018-JC-208)
EB-38443-101118-JC-210	-	Water	10/11/2018	09:00	X				X		X	X		X	Equipment Blank
TB-38443-101118-JC-038	-	Water	10/11/2018	-	X				X						Trip Blank
GW-38443-101118-JC-211	VAS-36	Water	10/11/2018	09:45	X				X		X	X		X	
GW-38443-101118-JC-212	VAS-36	Water	10/11/2018	13:00	X				X		X	X		X	
GW-38443-101118-JC-213	VAS-36	Water	10/11/2018	16:15	X				X		X	X		X	

Notes:

- - Not applicable
FD - Field Duplicate sample of sample in parentheses
MS/MSD - Matrix Spike/Matrix Spike Duplicate
PCBs - Polychlorinated Biphenyls
SVOCs - Semi-volatile Organic Compounds
VOCs - Volatile Organic Compounds

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**BH11-18**	**BH11-18**	**BH14-18**	**BH15-18**
Sample Name:		**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**GW-38443-091718-JC-171**	**GW-38443-090518-JC-152**
Sample Date:		**07/31/2018**	**08/02/2018**	**09/17/2018**	**09/05/2018**
Depth:		**30-34 ft BGS**	**38-43 ft BGS**	**35-40 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.72 J	0.24 UJ	0.24 UJ	0.24 UJ
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 UJ	0.13 UJ	0.13 UJ
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 UJ	0.090 UJ	0.090 UJ
1,1-Dichloroethane	µg/L	0.17 U	0.17 UJ	1.6 J	0.17 UJ
1,1-Dichloroethene	µg/L	0.19 U	0.19 UJ	0.19 UJ	0.19 UJ
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 UJ	0.15 UJ	0.15 UJ
1,2-Dichloroethane	µg/L	0.21 U	0.21 UJ	0.21 UJ	0.21 UJ
1,2-Dichloropropane	µg/L	0.15 U	0.15 UJ	0.15 UJ	0.15 UJ
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 UJ	0.15 UJ	0.15 UJ
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 UJ	0.16 UJ	0.16 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 UJ	1.2 UJ	1.2 UJ
2-Hexanone	µg/L	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ
Acetone	µg/L	5.4 U	13 J	5.4 UJ	5.4 UJ
Benzene	µg/L	0.13 U	0.33 J	0.45 J	0.16 J
Bromodichloromethane	µg/L	0.17 U	0.17 UJ	0.17 UJ	0.17 UJ
Bromoform	µg/L	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	0.28 U	0.28 UJ	0.66 J	0.28 UJ
Carbon tetrachloride	µg/L	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ
Chlorobenzene	µg/L	0.14 U	0.14 UJ	2.9 J	0.14 UJ
Chloroethane	µg/L	0.83 U	0.83 UJ	0.89 J	0.83 UJ
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 UJ	0.13 UJ	0.13 UJ
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 UJ	0.20 UJ	0.20 UJ
cis-1,2-Dichloroethene	µg/L	0.28 J	2.4 J	5.9 J	0.16 UJ
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 UJ	0.61 UJ	0.61 UJ
Cyclohexane	µg/L	0.24 U	0.24 UJ	0.27 J	0.24 UJ
Dibromochloromethane	µg/L	0.39 U	0.39 UJ	0.39 UJ	0.39 UJ
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 UJ	0.35 UJ	0.35 UJ
Ethylbenzene	µg/L	0.11 U	0.11 UJ	0.40 J	0.18 J
Isopropyl benzene	µg/L	0.090 U	0.090 UJ	0.17 J	0.090 UJ
m&p-Xylenes	µg/L	0.080 U	0.080 UJ	0.74 J	0.23 J
Methyl acetate	µg/L	1.7 U	1.7 UJ	1.7 UJ	1.7 UJ
Methyl cyclohexane	µg/L	0.33 U	0.33 UJ	0.47 J	0.33 UJ
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 UJ	0.070 UJ	0.070 UJ
Methylene chloride	µg/L	2.6 U	2.6 UJ	2.6 UJ	2.6 UJ
o-Xylene	µg/L	0.090 U	0.090 UJ	0.28 J	0.13 J

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		BH11-18	BH11-18	BH14-18	BH15-18
Sample Name:		GW-38443-073118-JC-018	GW-38443-080218-JC-019	GW-38443-091718-JC-171	GW-38443-090518-JC-152
Sample Date:		07/31/2018	08/02/2018	09/17/2018	09/05/2018
Depth:		30-34 ft BGS	38-43 ft BGS	35-40 ft BGS	25-30 ft BGS
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 UJ	0.10 UJ	0.10 UJ
Tetrachloroethene	µg/L	0.15 U	0.15 UJ	0.15 UJ	0.17 J
Toluene	µg/L	0.14 U	0.15 J	1.3 J	3.7 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.21 J	0.19 J	0.19 UJ
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 UJ	0.67 UJ	0.67 UJ
Trichloroethene	µg/L	12	2.9 J	4.3 J	1.8 J
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 UJ	0.45 UJ	0.45 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 UJ	0.41 UJ	0.41 UJ
Vinyl chloride	µg/L	0.20 U	0.32 J	1.9 J	0.20 UJ
Xylenes (total)	µg/L	0.15 U	0.15 UJ	1.0 J	0.36 J
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.56 U	--	0.53 U	--
2,4,5-Trichlorophenol	µg/L	2.0 U	--	1.9 U	--
2,4,6-Trichlorophenol	µg/L	1.8 U	--	1.7 U	--
2,4-Dichlorophenol	µg/L	0.27 U	--	0.25 U	--
2,4-Dimethylphenol	µg/L	0.53 U	--	0.50 U	--
2,4-Dinitrophenol	µg/L	6.3 U	--	6.0 U	--
2,4-Dinitrotoluene	µg/L	2.1 U	--	2.0 U	--
2,6-Dinitrotoluene	µg/L	2.2 U	--	2.0 U	--
2-Chloronaphthalene	µg/L	0.49 U	--	0.46 U	--
2-Chlorophenol	µg/L	0.28 U	--	0.26 U	--
2-Methylnaphthalene	µg/L	0.11 U	--	0.46	--
2-Methylphenol	µg/L	0.21 U	--	0.20 U	--
2-Nitroaniline	µg/L	0.52 U	--	0.49 U	--
2-Nitrophenol	µg/L	0.58 U	--	0.54 U	--
3&4-Methylphenol	µg/L	0.19 U	--	0.18 U	--
3,3'-Dichlorobenzidine	µg/L	1.2 U	--	1.1 U	--
3-Nitroaniline	µg/L	0.58 U	--	0.54 U	--
4,6-Dinitro-2-methylphenol	µg/L	2.9 U	--	2.7 U	--
4-Bromophenyl phenyl ether	µg/L	0.51 U	--	0.48 U	--
4-Chloro-3-methylphenol	µg/L	0.30 U	--	0.28 U	--
4-Chloroaniline	µg/L	0.32 U	--	0.30 U	--
4-Chlorophenyl phenyl ether	µg/L	0.56 U	--	0.53 U	--
4-Nitroaniline	µg/L	0.94 U	--	0.88 U	--
4-Nitrophenol	µg/L	2.2 U	--	2.1 U	--
Acenaphthene	µg/L	0.18 U	--	0.17 U	--
Acenaphthylene	µg/L	0.13 U	--	0.12 U	--
Acetophenone	µg/L	0.37 U	--	0.35 U	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**BH11-18**	**BH11-18**	**BH14-18**	**BH15-18**
Sample Name:		**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**GW-38443-091718-JC-171**	**GW-38443-090518-JC-152**
Sample Date:		**07/31/2018**	**08/02/2018**	**09/17/2018**	**09/05/2018**
Depth:		**30-34 ft BGS**	**38-43 ft BGS**	**35-40 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	0.14 U	--	0.13 U	--
Atrazine	µg/L	0.35 U	--	0.92 U	--
Benzaldehyde	µg/L	0.40 U	--	0.73 U	--
Benzo(a)anthracene	µg/L	0.17 U	--	0.16 U	--
Benzo(a)pyrene	µg/L	0.18 U	--	0.17 U	--
Benzo(b)fluoranthene	µg/L	0.16 U	--	0.17 J	--
Benzo(g,h,i)perylene	µg/L	0.18 U	--	0.17 U	--
Benzo(k)fluoranthene	µg/L	0.14 U	--	0.13 U	--
Biphenyl (1,1-Biphenyl)	µg/L	0.50 U	--	0.47 U	--
bis(2-Chloroethoxy)methane	µg/L	0.46 U	--	0.44 U	--
bis(2-Chloroethyl)ether	µg/L	0.41 U	--	0.39 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.3 U	--	2.7 J	--
Butyl benzylphthalate (BBP)	µg/L	0.68 U	--	0.64 U	--
Caprolactam	µg/L	0.20 U	--	0.90 U	--
Carbazole	µg/L	0.50 U	--	0.47 U	--
Chrysene	µg/L	0.19 U	--	0.18 U	--
Di-n-butylphthalate (DBP)	µg/L	1.8 U	--	1.7 U	--
Di-n-octyl phthalate (DnOP)	µg/L	0.84 U	--	0.79 U	--
Dibenz(a,h)anthracene	µg/L	0.15 U	--	0.15 U	--
Dibenzofuran	µg/L	0.57 U	--	0.54 U	--
Diethyl phthalate	µg/L	3.9 U	--	3.7 U	--
Dimethyl phthalate	µg/L	0.53 U	--	0.50 U	--
Fluoranthene	µg/L	0.16 U	--	0.19	--
Fluorene	µg/L	0.17 U	--	0.16 U	--
Hexachlorobenzene	µg/L	0.16 U	--	0.15 U	--
Hexachlorobutadiene	µg/L	0.55 U	--	0.52 U	--
Hexachlorocyclopentadiene	µg/L	1.8 U	--	1.7 U	--
Hexachloroethane	µg/L	0.40 U	--	0.38 U	--
Indeno(1,2,3-cd)pyrene	µg/L	0.14 U	--	0.13 U	--
Isophorone	µg/L	0.33 U	--	0.31 U	--
N-Nitrosodi-n-propylamine	µg/L	0.26 U	--	0.24 U	--
N-Nitrosodiphenylamine	µg/L	0.45 U	--	0.42 U	--
Naphthalene	µg/L	0.13 J	--	0.33	--
Nitrobenzene	µg/L	0.52 U	--	0.49 U	--
Pentachlorophenol	µg/L	3.2 U	--	3.0 U	--
Phenanthrene	µg/L	0.17 U	--	0.46	--
Phenol	µg/L	0.13 U	--	0.12 U	--
Pyrene	µg/L	0.18 U	--	0.24	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		BH11-18	BH11-18	BH14-18	BH15-18
Sample Name:		GW-38443-073118-JC-018	GW-38443-080218-JC-019	GW-38443-091718-JC-171	GW-38443-090518-JC-152
Sample Date:		07/31/2018	08/02/2018	09/17/2018	09/05/2018
Depth:		30-34 ft BGS	38-43 ft BGS	35-40 ft BGS	25-30 ft BGS
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	0.57 UJ	--	--	--
2,4,5-TP (Silvex)	µg/L	0.43 U	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	2.2 U	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.057 U	--	0.053 U	--
Aroclor-1221 (PCB-1221)	µg/L	0.058 U	--	0.054 U	--
Aroclor-1232 (PCB-1232)	µg/L	0.076 U	--	0.070 U	--
Aroclor-1242 (PCB-1242)	µg/L	0.078 U	--	0.072 U	--
Aroclor-1248 (PCB-1248)	µg/L	0.051 U	--	0.048 U	--
Aroclor-1254 (PCB-1254)	µg/L	0.041 U	--	0.038 U	--
Aroclor-1260 (PCB-1260)	µg/L	0.047 U	--	0.044 U	--
Pesticides					
4,4'-DDD	µg/L	0.027 U	--	--	--
4,4'-DDE	µg/L	0.022 U	--	--	--
4,4'-DDT	µg/L	0.024 U	--	--	--
Aldrin	µg/L	0.012 U	--	--	--
alpha-BHC	µg/L	0.010 U	--	--	--
alpha-Chlordane	µg/L	0.016 U	--	--	--
beta-BHC	µg/L	0.023 U	--	--	--
delta-BHC	µg/L	0.022 U	--	--	--
Dieldrin	µg/L	0.012 U	--	--	--
Endosulfan I	µg/L	0.019 U	--	--	--
Endosulfan II	µg/L	0.012 U	--	--	--
Endosulfan sulfate	µg/L	0.019 U	--	--	--
Endrin	µg/L	0.013 U	--	--	--
Endrin aldehyde	µg/L	0.023 U	--	--	--
Endrin ketone	µg/L	0.020 U	--	--	--
gamma-BHC (lindane)	µg/L	0.013 U	--	--	--
gamma-Chlordane	µg/L	0.026 U	--	--	--
Heptachlor	µg/L	0.017 U	--	--	--
Heptachlor epoxide	µg/L	0.013 U	--	--	--
Methoxychlor	µg/L	0.024 U	--	--	--
Toxaphene	µg/L	0.30 U	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**BH11-18**	**BH11-18**	**BH14-18**	**BH15-18**
Sample Name:		**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**GW-38443-091718-JC-171**	**GW-38443-090518-JC-152**
Sample Date:		**07/31/2018**	**08/02/2018**	**09/17/2018**	**09/05/2018**
Depth:		**30-34 ft BGS**	**38-43 ft BGS**	**35-40 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	63	--	39000	28000
Aluminum (dissolved)	µg/L	34 U	--	34 U	190 J
Antimony	µg/L	0.66 J	--	23	2.7
Antimony (dissolved)	µg/L	0.57 U	--	0.57 U	0.57 U
Arsenic	µg/L	0.75 U	--	110	95
Arsenic (dissolved)	µg/L	0.75 U	--	22	0.78 J
Barium	µg/L	160	--	1100	850
Barium (dissolved)	µg/L	160	--	290	120
Beryllium	µg/L	0.72 J	--	2.6	2.0
Beryllium (dissolved)	µg/L	0.41 J	--	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	--	14	1.1
Cadmium (dissolved)	µg/L	0.21 U	--	0.21 U	0.21 U
Calcium	µg/L	140000	--	140000	700000
Calcium (dissolved)	µg/L	140000	--	80000	140000
Chromium	µg/L	2.1 U	--	610	65
Chromium (dissolved)	µg/L	1.54 U	--	0.98 U	0.98 U
Cobalt	µg/L	1.2	--	46	41
Cobalt (dissolved)	µg/L	1.1	--	1.0	3.8
Copper	µg/L	1.7 U	--	1900	280
Copper (dissolved)	µg/L	1.7 U	--	1.7 U	4.3 J
Iron	µg/L	190	--	250000	86000
Iron (dissolved)	µg/L	47 U	--	4800	430 U
Lead	µg/L	0.45 U	--	1400	97
Lead (dissolved)	µg/L	0.45 U	--	0.45 U	0.57 J
Magnesium	µg/L	41000	--	88000	290000
Magnesium (dissolved)	µg/L	41000	--	64000	51000
Manganese	µg/L	61	--	15000	3500
Manganese (dissolved)	µg/L	60	--	330	550
Mercury	µg/L	0.13 U	--	0.32 U	0.38
Mercury (dissolved)	µg/L	0.13 U	--	0.13 U	0.13 U
Nickel	µg/L	2.2	--	300	110
Nickel (dissolved)	µg/L	2.3	--	4.5	10
Potassium	µg/L	8000	--	40000	17000
Potassium (dissolved)	µg/L	8200	--	38000	9000
Selenium	µg/L	11	--	10	22
Selenium (dissolved)	µg/L	10	--	0.89 U	22
Silver	µg/L	0.053 U	--	4.1	0.13 J
Silver (dissolved)	µg/L	0.053 U	--	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

	Location ID:	BH11-18	BH11-18	BH14-18	BH15-18
	Sample Name:	GW-38443-073118-JC-018	GW-38443-080218-JC-019	GW-38443-091718-JC-171	GW-38443-090518-JC-152
	Sample Date:	07/31/2018	08/02/2018	09/17/2018	09/05/2018
	Depth:	30-34 ft BGS	38-43 ft BGS	35-40 ft BGS	25-30 ft BGS
Parameters	**Unit**				
Sodium	µg/L	170000	--	84000	58000
Sodium (dissolved)	µg/L	180000	--	86000	58000
Thallium	µg/L	0.20 U	--	1.6	1.4
Thallium (dissolved)	µg/L	0.20 U	--	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	--	110	76
Vanadium (dissolved)	µg/L	0.82 U	--	0.82 U	0.82 U
Zinc	µg/L	18 J	--	2100	1900
Zinc (dissolved)	µg/L	18 J	--	100	950
General Chemistry					
Cyanide (total)	mg/L	0.0060 U	--	0.0060 U	--
Chloride	µg/L	330000	--	93000	87000
Nitrate (as N)	µg/L	4600	--	14 U	2300
Nitrite (as N)	µg/L	14 U	--	14 U	20 J
Sulfate	µg/L	51000	--	25000	76000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**BH15-18**	**BH16-18**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-090518-JC-153**	**GW-38443-090418-JC-151**	**GW-38443-092518-JC-183**	**GW-38443-092618-JC-184**
Sample Date:		**09/05/2018**	**09/04/2018**	**09/25/2018**	**09/26/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 UJ	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 UJ	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 UJ	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 UJ	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 UJ	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.34 J	0.26 U	0.26 UJ
1,2-Dichlorobenzene	µg/L	0.15 UJ	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 UJ	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 UJ	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 UJ	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 UJ	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 UJ	1.2 J	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 UJ	0.85 J	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 UJ	0.76 J	0.42 U	0.42 U
Acetone	µg/L	5.4 UJ	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.21 J	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 UJ	0.17 U	0.50 J	0.17 U
Bromoform	µg/L	0.76 UJ	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 UJ	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 UJ	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 UJ	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 UJ	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 UJ	0.13 U	1.3	0.59 J
Chloromethane (Methyl chloride)	µg/L	0.20 UJ	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 UJ	0.20 J	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 UJ	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 UJ	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 UJ	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 UJ	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.20 J	0.11 J	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 UJ	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.24 J	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 UJ	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 UJ	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 UJ	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 UJ	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.14 J	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		BH15-18	BH16-18	VAS-22b	VAS-22b
Sample Name:		GW-38443-090518-JC-153	GW-38443-090418-JC-151	GW-38443-092518-JC-183	GW-38443-092618-JC-184
Sample Date:		09/05/2018	09/04/2018	09/25/2018	09/26/2018
Depth:		25-30 ft BGS	25-30 ft BGS	60-70 ft BGS	70-80 ft BGS
		Duplicate			
Parameters	**Unit**				
Styrene	µg/L	0.10 UJ	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 J	0.15 U	0.15 U	0.15 U
Toluene	µg/L	4.6 J	0.29 J	1.6	2.7
trans-1,2-Dichloroethene	µg/L	0.19 UJ	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 UJ	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	1.5 J	1.4	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 UJ	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 UJ	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 UJ	0.20 U	6.3	3.4
Xylenes (total)	µg/L	0.38 J	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**BH15-18**	**BH16-18**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-090518-JC-153**	**GW-38443-090418-JC-151**	**GW-38443-092518-JC-183**	**GW-38443-092618-JC-184**
Sample Date:		**09/05/2018**	**09/04/2018**	**09/25/2018**	**09/26/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**
		Duplicate			
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

	Location ID:	BH15-18	BH16-18	VAS-22b	VAS-22b
	Sample Name:	GW-38443-090518-JC-153	GW-38443-090418-JC-151	GW-38443-092518-JC-183	GW-38443-092618-JC-184
	Sample Date:	09/05/2018	09/04/2018	09/25/2018	09/26/2018
	Depth:	25-30 ft BGS	25-30 ft BGS	60-70 ft BGS	70-80 ft BGS
		Duplicate			
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**BH15-18**	**BH16-18**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-090518-JC-153**	**GW-38443-090418-JC-151**	**GW-38443-092518-JC-183**	**GW-38443-092618-JC-184**
Sample Date:		**09/05/2018**	**09/04/2018**	**09/25/2018**	**09/26/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**
		Duplicate			
Parameters	**Unit**				
Metals					
Aluminum	µg/L	25000	2200	120	75
Aluminum (dissolved)	µg/L	34 UJ	61	120	34 U
Antimony	µg/L	2.7	0.57 U	0.89 J	0.77 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.88 J	0.76 J
Arsenic	µg/L	86	4.0 J	2.6 J	1.8 J
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	2.6 J	1.6 J
Barium	µg/L	760	150	570	550
Barium (dissolved)	µg/L	100	91	590	530
Beryllium	µg/L	1.8	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.89 J	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	660000	170000	91000	88000
Calcium (dissolved)	µg/L	120000	120000	94000	83000
Chromium	µg/L	57	4.9	0.98 U	2.7
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	1.2 J
Cobalt	µg/L	37	2.9	0.34 J	0.20 J
Cobalt (dissolved)	µg/L	3.3	0.37 J	0.32 J	0.19 U
Copper	µg/L	240	17	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 UJ	1.7 U	1.7 U	1.7 U
Iron	µg/L	77000	5000	1500	1500
Iron (dissolved)	µg/L	47 U	140 U	1600	1300
Lead	µg/L	86	7.0	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	270000	65000	50000	49000
Magnesium (dissolved)	µg/L	45000	43000	51000	46000
Manganese	µg/L	3100	390	120	100
Manganese (dissolved)	µg/L	490	63	120	93
Mercury	µg/L	0.33	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	95	13	1.5 U	1.5 U
Nickel (dissolved)	µg/L	9.1	2.8	1.5 U	1.5 U
Potassium	µg/L	16000	10000	11000	10000
Potassium (dissolved)	µg/L	8400	9300	12000	9800
Selenium	µg/L	22	13	0.89 U	0.89 U
Selenium (dissolved)	µg/L	22	13	0.89 U	0.89 U
Silver	µg/L	0.11 J	0.058 J	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

	Location ID:	BH15-18	BH16-18	VAS-22b	VAS-22b
	Sample Name:	GW-38443-090518-JC-153	GW-38443-090418-JC-151	GW-38443-092518-JC-183	GW-38443-092618-JC-184
	Sample Date:	09/05/2018	09/04/2018	09/25/2018	09/26/2018
	Depth:	25-30 ft BGS Duplicate	25-30 ft BGS	60-70 ft BGS	70-80 ft BGS
Parameters	**Unit**				
Sodium	µg/L	58000	47000	46000	41000
Sodium (dissolved)	µg/L	53000	46000	47000	39000
Thallium	µg/L	1.2	0.30 J	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	68	5.5	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	1700	720	860	1500
Zinc (dissolved)	µg/L	810	510	880	1300
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	87000	85000	93000	81000
Nitrate (as N)	µg/L	2300	2700	150	14 U
Nitrite (as N)	µg/L	21 J	14 J	14 U	14 U
Sulfate	µg/L	76000	60000	58000	62000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		VAS-22b	VAS-22b	VAS-22b	VAS-22b
Sample Name:		GW-38443-092618-JC-185	GW-38443-092718-JC-186	GW-38443-092718-JC-187	GW-38443-092718-JC-188
Sample Date:		09/26/2018	09/27/2018	09/27/2018	09/27/2018
Depth:		80-90 ft BGS	90-100 ft BGS	90-100 ft BGS Duplicate	100-110 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.70 J
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.31 J
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.26 J	0.13 U	0.13 J	1.5
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.57 J
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092618-JC-185**	**GW-38443-092718-JC-186**	**GW-38443-092718-JC-187**	**GW-38443-092718-JC-188**
Sample Date:		**09/26/2018**	**09/27/2018**	**09/27/2018**	**09/27/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**90-100 ft BGS Duplicate**	**100-110 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.14 U	0.78 J	0.83 J	1.8
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	4.1	2.7	3.2	8.1
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092618-JC-185**	**GW-38443-092718-JC-186**	**GW-38443-092718-JC-187**	**GW-38443-092718-JC-188**
Sample Date:		**09/26/2018**	**09/27/2018**	**09/27/2018**	**09/27/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**90-100 ft BGS Duplicate**	**100-110 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092618-JC-185**	**GW-38443-092718-JC-186**	**GW-38443-092718-JC-187**	**GW-38443-092718-JC-188**
Sample Date:		**09/26/2018**	**09/27/2018**	**09/27/2018**	**09/27/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**90-100 ft BGS Duplicate**	**100-110 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092618-JC-185**	**GW-38443-092718-JC-186**	**GW-38443-092718-JC-187**	**GW-38443-092718-JC-188**
Sample Date:		**09/26/2018**	**09/27/2018**	**09/27/2018**	**09/27/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**90-100 ft BGS Duplicate**	**100-110 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	87	50	62	7600
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	1.1 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	1.3 J	1.3 J	1.3 J	6.2
Arsenic (dissolved)	µg/L	1.2 J	1.2 J	1.2 J	0.75 U
Barium	µg/L	450	490	540	620
Barium (dissolved)	µg/L	470	500	510	550
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.50 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	87000	63000	67000	140000
Calcium (dissolved)	µg/L	87000	62000	63000	49000
Chromium	µg/L	0.99 J	0.98 U	0.98 U	30
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.21 J	0.19 U	0.19 U	5.9
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
Copper	µg/L	1.7 U	1.7 U	1.7 U	26
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	2300	3400	3900	21000
Iron (dissolved)	µg/L	2000	2400	2400	1100
Lead	µg/L	0.45 U	0.45 U	0.45 U	10
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	44000	44000	46000	67000
Magnesium (dissolved)	µg/L	45000	44000	44000	37000
Manganese	µg/L	88	65	72	630
Manganese (dissolved)	µg/L	83	60	59	150
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	1.5 U	17
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	9100	11000	12000	15000
Potassium (dissolved)	µg/L	9300	11000	11000	13000
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092618-JC-185**	**GW-38443-092718-JC-186**	**GW-38443-092718-JC-187**	**GW-38443-092718-JC-188**
Sample Date:		**09/26/2018**	**09/27/2018**	**09/27/2018**	**09/27/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**90-100 ft BGS Duplicate**	**100-110 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	42000	42000	45000	46000
Sodium (dissolved)	µg/L	43000	44000	43000	47000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.22 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	17
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	820	640	700	230
Zinc (dissolved)	µg/L	880	580	590	120
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	83000	78000	79000	69000
Nitrate (as N)	µg/L	14 U	14 U	14 U	160
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	57000	36000	36000	10000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092718-JC-189**	**GW-38443-100218-JC-191**	**GW-38443-100218-JC-192**	**GW-38443-100318-JC-193**
Sample Date:		**09/27/2018**	**10/02/2018**	**10/02/2018**	**10/03/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.52 J	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 UJ	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.20 J	0.16 J	1.6	0.82 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.21 U	0.20 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
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Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092718-JC-189**	**GW-38443-100218-JC-191**	**GW-38443-100218-JC-192**	**GW-38443-100318-JC-193**
Sample Date:		**09/27/2018**	**10/02/2018**	**10/02/2018**	**10/03/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.19 J	0.15 U	0.15 U
Toluene	µg/L	0.23 J	0.54 J	2.0	0.49 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	2.0	4.0	6.5	5.5
Xylenes (total)	µg/L	0.15 U	0.21 U	0.20 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092718-JC-189**	**GW-38443-100218-JC-191**	**GW-38443-100218-JC-192**	**GW-38443-100318-JC-193**
Sample Date:		**09/27/2018**	**10/02/2018**	**10/02/2018**	**10/03/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
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Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092718-JC-189**	**GW-38443-100218-JC-191**	**GW-38443-100218-JC-192**	**GW-38443-100318-JC-193**
Sample Date:		**09/27/2018**	**10/02/2018**	**10/02/2018**	**10/03/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092718-JC-189**	**GW-38443-100218-JC-191**	**GW-38443-100218-JC-192**	**GW-38443-100318-JC-193**
Sample Date:		**09/27/2018**	**10/02/2018**	**10/02/2018**	**10/03/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	880	850	5400	13000
Aluminum (dissolved)	µg/L	34 U	88	40 J	700
Antimony	µg/L	0.57 U	0.57 U	0.76 J	0.64 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	0.75 U	1.1 J	2.4 J	7.8
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	0.97 J
Barium	µg/L	670	310	270	320
Barium (dissolved)	µg/L	670	300	210	250
Beryllium	µg/L	0.31 U	0.31 U	0.70 U	0.58 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.23 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	59000	60000	90000	150000
Calcium (dissolved)	µg/L	54000	54000	57000	63000
Chromium	µg/L	2.5	3.4	40	19
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	1.1 J
Cobalt	µg/L	0.71 J	1.0	4.0	9.4
Cobalt (dissolved)	µg/L	0.19 U	0.26 J	0.21 J	0.63 J
Copper	µg/L	3.2	8.7	20	27
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	2.1
Iron	µg/L	2800	9000	17000	24000
Iron (dissolved)	µg/L	1300	2800	1500	3200
Lead	µg/L	1.5	3.0	6.4	14
Lead (dissolved)	µg/L	0.45 U	0.46 J	0.45 U	0.88 J
Magnesium	µg/L	41000	41000	51000	74000
Magnesium (dissolved)	µg/L	40000	40000	40000	41000
Manganese	µg/L	210	300	500	850
Manganese (dissolved)	µg/L	180	250	220	270
Mercury	µg/L	0.13 U	0.13 U	0.13 J	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	2.0	4.0	13	24
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	2.3
Potassium	µg/L	15000	15000	15000	16000
Potassium (dissolved)	µg/L	15000	15000	14000	14000
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**
Sample Name:		**GW-38443-092718-JC-189**	**GW-38443-100218-JC-191**	**GW-38443-100218-JC-192**	**GW-38443-100318-JC-193**
Sample Date:		**09/27/2018**	**10/02/2018**	**10/02/2018**	**10/03/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	51000	52000	52000	57000
Sodium (dissolved)	µg/L	51000	54000	52000	59000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.42 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.0 J	1.8 J	13	24
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.90 J
Zinc	µg/L	130	370	310 U	330
Zinc (dissolved)	µg/L	120	370	190 U	250
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	71000	70000	69000	79000
Nitrate (as N)	µg/L	14 J	14 U	190	140
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	8400	27000	42000	44000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
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Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**
Sample Date:		**10/04/2018**	**10/04/2018**	**10/04/2018**	**10/05/2018**
Depth:		**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	2.3	3.2 J	5.3	3.9 J
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 UJ	0.13 U	0.13 UJ
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 UJ	0.090 U	0.090 UJ
1,1-Dichloroethane	µg/L	0.17 U	0.17 UJ	0.17 U	0.17 UJ
1,1-Dichloroethene	µg/L	0.19 U	0.19 UJ	0.19 U	0.42 J
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 UJ	0.15 U	0.15 UJ
1,2-Dichloroethane	µg/L	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ
1,2-Dichloropropane	µg/L	0.15 U	0.15 UJ	0.15 U	0.15 UJ
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 UJ	0.15 U	0.15 UJ
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 UJ	0.16 U	0.16 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 UJ	1.2 U	1.2 UJ
2-Hexanone	µg/L	0.54 U	0.54 UJ	0.54 U	0.54 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 UJ	0.42 U	0.42 UJ
Acetone	µg/L	5.4 U	5.4 UJ	5.4 U	5.4 UJ
Benzene	µg/L	0.13 U	0.13 UJ	0.13 U	0.16 J
Bromodichloromethane	µg/L	0.17 U	0.17 UJ	0.17 U	0.17 UJ
Bromoform	µg/L	0.76 U	0.76 UJ	0.76 U	0.76 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 UJ	0.42 U	0.42 UJ
Carbon disulfide	µg/L	0.28 U	0.28 UJ	0.28 U	0.28 UJ
Carbon tetrachloride	µg/L	0.26 U	0.26 UJ	0.26 U	0.26 UJ
Chlorobenzene	µg/L	0.14 U	0.14 UJ	0.14 U	0.14 UJ
Chloroethane	µg/L	0.83 U	0.83 UJ	0.83 U	0.83 UJ
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 UJ	0.13 U	0.13 UJ
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 UJ	0.20 U	0.20 UJ
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 UJ	0.16 U	0.16 UJ
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 UJ	0.61 U	0.61 UJ
Cyclohexane	µg/L	0.24 U	0.24 UJ	0.24 U	0.24 UJ
Dibromochloromethane	µg/L	0.39 U	0.39 UJ	0.39 U	0.39 UJ
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 UJ	0.35 U	0.35 UJ
Ethylbenzene	µg/L	0.11 U	0.11 UJ	0.11 U	0.11 UJ
Isopropyl benzene	µg/L	0.090 U	0.090 UJ	0.090 U	0.090 UJ
m&p-Xylenes	µg/L	0.080 U	0.080 UJ	0.080 U	0.14 J
Methyl acetate	µg/L	1.7 U	1.7 UJ	1.7 U	1.7 UJ
Methyl cyclohexane	µg/L	0.33 U	0.33 UJ	0.33 U	0.33 UJ
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 UJ	0.070 U	0.070 UJ
Methylene chloride	µg/L	2.6 U	2.6 UJ	2.6 U	2.6 UJ
o-Xylene	µg/L	0.090 U	0.090 UJ	0.090 U	0.090 UJ

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**
Sample Date:		**10/04/2018**	**10/04/2018**	**10/04/2018**	**10/05/2018**
Depth:		**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 UJ	0.10 U	0.10 UJ
Tetrachloroethene	µg/L	0.15 U	0.15 UJ	0.15 U	0.15 UJ
Toluene	µg/L	0.35 U	0.50 UJ	0.45 U	0.53 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 UJ	0.19 U	0.19 UJ
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 UJ	0.67 U	0.67 UJ
Trichloroethene	µg/L	0.10 U	0.61 J	1.1	0.97 J
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 UJ	0.45 U	0.45 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 UJ	0.41 U	0.41 UJ
Vinyl chloride	µg/L	0.20 U	0.20 UJ	0.20 U	0.20 UJ
Xylenes (total)	µg/L	0.15 U	0.15 UJ	0.15 U	0.15 UJ
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**
Sample Date:		**10/04/2018**	**10/04/2018**	**10/04/2018**	**10/05/2018**
Depth:		**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**
Sample Date:		**10/04/2018**	**10/04/2018**	**10/04/2018**	**10/05/2018**
Depth:		**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**
Sample Date:		**10/04/2018**	**10/04/2018**	**10/04/2018**	**10/05/2018**
Depth:		**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	4000	130000	130000	29000
Aluminum (dissolved)	µg/L	49 J	34 U	93	2700
Antimony	µg/L	0.61 J	2.5	2.6	1.0 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	5.8	180	180	45
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	2.9 J
Barium	µg/L	140	2600	2700	450
Barium (dissolved)	µg/L	100	73	84	130
Beryllium	µg/L	0.31 J	6.1	7.2	1.5
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	3.3	3.3	0.71 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	1400000	110000	350000
Calcium (dissolved)	µg/L	92000	99000	92000	110000
Chromium	µg/L	6.7	240	240	59
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	4.3 U
Cobalt	µg/L	7.8	130	130	26
Cobalt (dissolved)	µg/L	0.52 J	1.9	0.36 J	2.8
Copper	µg/L	13	330	320	73
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	5.7
Iron	µg/L	8400	290000	3800	60000
Iron (dissolved)	µg/L	100	66 J	150	4100
Lead	µg/L	8.5	170	180	30
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	2.2
Magnesium	µg/L	37000	440000	440000	130000
Magnesium (dissolved)	µg/L	27000	33000	29000	38000
Manganese	µg/L	410	8200	8800	1600
Manganese (dissolved)	µg/L	42	250	61	350
Mercury	µg/L	0.13 U	0.39	0.13 U	0.14 J
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	9.8	330	330	65
Nickel (dissolved)	µg/L	1.5 U	2.7	1.5 U	5.9
Potassium	µg/L	7000	37000	38000	14000
Potassium (dissolved)	µg/L	5500	5900	4800	6200
Selenium	µg/L	3.8 J	21	24	5.4
Selenium (dissolved)	µg/L	3.8 J	3.9 J	3.5 J	4.2 J
Silver	µg/L	0.053 U	0.48 J	0.48 J	0.12 J
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**
Sample Date:		**10/04/2018**	**10/04/2018**	**10/04/2018**	**10/05/2018**
Depth:		**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	79000	61000	62000	60000
Sodium (dissolved)	µg/L	82000	70000	60000	63000
Thallium	µg/L	0.28 J	4.9	5.2	0.98 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	12	310	300	66
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	5.4
Zinc	µg/L	1100	2200	2200	900
Zinc (dissolved)	µg/L	920	200	1500	350
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	79000	82000	67000	71000
Nitrate (as N)	µg/L	4400	3400	3900	3800
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	32000	47000	42000	43000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.036	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**	**GW-38443-100818-JC-202**
Sample Date:		**10/05/2018**	**10/05/2018**	**10/08/2018**	**10/08/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	1.2	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.18 J	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 UJ	0.26 UJ
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 UJ	0.21 UJ
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 UJ	0.42 UJ
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.17 J	0.22 J	0.30 J	0.58 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.55 J	5.5
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**	**GW-38443-100818-JC-202**
Sample Date:		**10/05/2018**	**10/05/2018**	**10/08/2018**	**10/08/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.42 J	0.41 J	0.41 J	0.92 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	1.7	1.8	1.0	0.45 J
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**	**GW-38443-100818-JC-202**
Sample Date:		**10/05/2018**	**10/05/2018**	**10/08/2018**	**10/08/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**	**GW-38443-100818-JC-202**
Sample Date:		**10/05/2018**	**10/05/2018**	**10/08/2018**	**10/08/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**	**GW-38443-100818-JC-202**
Sample Date:		**10/05/2018**	**10/05/2018**	**10/08/2018**	**10/08/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	5400	5800	130	4800
Aluminum (dissolved)	µg/L	380 U	670 U	34 U	190
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	4.9 J	4.1 J	1.2 J	6.0
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	1.5 J	2.2 J
Barium	µg/L	120	130	83	110
Barium (dissolved)	µg/L	82	83	86	70
Beryllium	µg/L	0.31 U	0.34 J	0.31 U	0.48 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.39 J	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.285 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.34 U	0.21 U
Calcium	µg/L	140000	170000	110000	180000
Calcium (dissolved)	µg/L	100000	110000	110000	110000
Chromium	µg/L	8.8	9.7	0.98 U	41
Chromium (dissolved)	µg/L	0.98 U	1.1 U	0.98 U	1.6 J
Cobalt	µg/L	4.0	3.9	0.56 J	3.7
Cobalt (dissolved)	µg/L	0.51 U	0.85 U	0.49 J	0.47 J
Copper	µg/L	12	12	9.4 U	39
Copper (dissolved)	µg/L	1.7 U	2.2	2.97 U	3.3 U
Iron	µg/L	9200	9700	4200	20000
Iron (dissolved)	µg/L	510 U	1400 U	1300	3300
Lead	µg/L	5.3	7.4	0.45 U	7.4
Lead (dissolved)	µg/L	0.45 U	1.1	0.45 U	0.45 U
Magnesium	µg/L	51000	63000	37000	63000
Magnesium (dissolved)	µg/L	34000	37000	37000	37000
Manganese	µg/L	350	530	310	520
Manganese (dissolved)	µg/L	180	340	310	230
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	10	11	2.3	14
Nickel (dissolved)	µg/L	1.5 U	2.3	1.5 U	1.6 J
Potassium	µg/L	6900	7300	5300	6900
Potassium (dissolved)	µg/L	5000	5100	5300	5000
Selenium	µg/L	4.3 J	2.7 J	1.2 J	1.6 J
Selenium (dissolved)	µg/L	3.6 J	1.7 J	1.5 J	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**	**GW-38443-100818-JC-202**
Sample Date:		**10/05/2018**	**10/05/2018**	**10/08/2018**	**10/08/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	50000	51000	48000	55000
Sodium (dissolved)	µg/L	50000	50000	48000	53000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.26 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.25 J	0.20 U
Vanadium	µg/L	11	13	0.82 U	13
Vanadium (dissolved)	µg/L	0.82 U	1.5 J	0.82 U	0.82 U
Zinc	µg/L	470	730	1800	990
Zinc (dissolved)	µg/L	400	580	1600	690
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	76000	70000	72000	82000
Nitrate (as N)	µg/L	2900	2000	120	25 J
Nitrite (as N)	µg/L	16 J	52 J	14 U	14 U
Sulfate	µg/L	47000	49000	56000	60000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		VAS-36	VAS-36	VAS-36	VAS-36
Sample Name:		GW-38443-100818-JC-203	GW-38443-100818-JC-204	GW-38443-100918-JC-205	GW-38443-100918-JC-206
Sample Date:		10/08/2018	10/08/2018	10/09/2018	10/09/2018
Depth:		60-70 ft BGS Duplicate	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.48 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.26 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.18 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.34 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.38 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 UJ	0.26 U	0.52 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.30 U
1,2-Dichloroethane	µg/L	0.21 UJ	0.21 UJ	0.21 U	0.82 J
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.30 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.30 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.32 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	2.3 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 UJ	0.42 UJ	0.42 U	0.84 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	11 U
Benzene	µg/L	0.13 U	0.33 J	3.4	2.3
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.34 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 UJ	1.5 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.84 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.56 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.52 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.28 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	1.7 U
Chloroform (Trichloromethane)	µg/L	0.74 J	0.27 J	0.51 J	0.81 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.40 U
cis-1,2-Dichloroethene	µg/L	5.8	5.9	8.8	54
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	1.2 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.48 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.78 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.70 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.22 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.18 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.16 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	3.4 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.66 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.14 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	5.2 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.18 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**
Sample Date:		**10/08/2018**	**10/08/2018**	**10/09/2018**	**10/09/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
		Duplicate			
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.20 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.23 U	0.30 U
Toluene	µg/L	0.97 J	0.66 J	0.25 U	0.28 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.38 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	1.3 U
Trichloroethene	µg/L	0.39 J	0.10 U	0.10 U	0.20 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.90 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.82 U
Vinyl chloride	µg/L	0.20 U	3.1	8.2	27
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.30 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**
Sample Date:		**10/08/2018**	**10/08/2018**	**10/09/2018**	**10/09/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
		Duplicate			
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**
Sample Date:		**10/08/2018**	**10/08/2018**	**10/09/2018**	**10/09/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
		Duplicate			
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**
Sample Date:		**10/08/2018**	**10/08/2018**	**10/09/2018**	**10/09/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
		Duplicate			
Parameters	**Unit**				
Metals					
Aluminum	µg/L	3800	5800	63000	9300
Aluminum (dissolved)	µg/L	150	34 U	16000	55
Antimony	µg/L	0.57 U	0.57 U	1.4 J	1.2 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.60 J	0.57 U
Arsenic	µg/L	5.5	6.4	22	9.1
Arsenic (dissolved)	µg/L	2.1 J	1.1 J	5.6	1.8 J
Barium	µg/L	100	110	580	250
Barium (dissolved)	µg/L	67	69	190	160
Beryllium	µg/L	0.31 U	0.42 J	3.4	0.55 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.67 J	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	1.3 U	0.34 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.30 U	0.21 U
Calcium	µg/L	160000	190000	480000	240000
Calcium (dissolved)	µg/L	100000	110000	160000	97000
Chromium	µg/L	34	20	110	83
Chromium (dissolved)	µg/L	0.98 U	0.98 U	24	0.98 U
Cobalt	µg/L	3.3	4.2	39	7.4
Cobalt (dissolved)	µg/L	0.39 J	0.19 U	7.7	0.19 J
Copper	µg/L	34	33	130	37
Copper (dissolved)	µg/L	4.2 U	3.3 U	27	2.97 U
Iron	µg/L	18000	14000	91000	35000
Iron (dissolved)	µg/L	2900	2000	21000	2900
Lead	µg/L	6.6	7.4	87	13
Lead (dissolved)	µg/L	0.45 U	0.45 U	16	0.45 U
Magnesium	µg/L	57000	64000	160000	86000
Magnesium (dissolved)	µg/L	34000	35000	55000	36000
Manganese	µg/L	470	470	2800	790
Manganese (dissolved)	µg/L	210	190	760	210
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	12	12	110	25
Nickel (dissolved)	µg/L	1.5 U	1.5 U	22	1.5 U
Potassium	µg/L	6000	7400	24000	8700
Potassium (dissolved)	µg/L	4600	5200	12000	6100
Selenium	µg/L	1.1 J	0.98 J	5.4	1.3 J
Selenium (dissolved)	µg/L	0.89 U	0.89 U	1.4 J	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.21 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**
Sample Date:		**10/08/2018**	**10/08/2018**	**10/09/2018**	**10/09/2018**
Depth:		**60-70 ft BGS Duplicate**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	49000	52000	53000	47000
Sodium (dissolved)	µg/L	49000	52000	50000	48000
Thallium	µg/L	0.20 U	0.23 J	1.5	0.25 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.35 J	0.20 U
Vanadium	µg/L	11	14	130	25
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	31	0.82 U
Zinc	µg/L	890	850	640	1000
Zinc (dissolved)	µg/L	620	690	300	600
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	82000	83000	83000	85000
Nitrate (as N)	µg/L	16 J	18 J	69 J	65 J
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	60000	59000	57000	63000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		VAS-36	VAS-36	VAS-36	VAS-36
Sample Name:		GW-38443-101018-JC-207	GW-38443-101018-JC-208	GW-38443-101018-JC-209	GW-38443-101118-JC-211
Sample Date:		10/10/2018	10/10/2018	10/10/2018	10/11/2018
Depth:		100-110 ft BGS	110-120 ft BGS	110-120 ft BGS Duplicate	120-130 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 UJ	0.15 UJ	0.15 UJ	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	6.5 J	7.0 J	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	1.9	2.3	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.95 J	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	1.4	4.4	5.2	0.29 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	2.0	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.96 J	1.2	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

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VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**	**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**
Sample Date:		**10/10/2018**	**10/10/2018**	**10/10/2018**	**10/11/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**110-120 ft BGS Duplicate**	**120-130 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.39 J	0.45 J	0.51 J	0.14 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	39	13	13	3.7
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**	**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**
Sample Date:		**10/10/2018**	**10/10/2018**	**10/10/2018**	**10/11/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**110-120 ft BGS Duplicate**	**120-130 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**	**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**
Sample Date:		**10/10/2018**	**10/10/2018**	**10/10/2018**	**10/11/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**110-120 ft BGS Duplicate**	**120-130 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
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July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**	**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**
Sample Date:		**10/10/2018**	**10/10/2018**	**10/10/2018**	**10/11/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**110-120 ft BGS Duplicate**	**120-130 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	1900	12000	13000	4600 J
Aluminum (dissolved)	µg/L	130	1000	1100	210 U
Antimony	µg/L	0.57 U	1.4 J	1.6 J	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	1.8 J	9.9	11	3.4 J
Arsenic (dissolved)	µg/L	1.1 J	1.4 J	1.6 J	1.1 J
Barium	µg/L	250	280	290	480
Barium (dissolved)	µg/L	230	190	200	410
Beryllium	µg/L	0.31 U	0.66 J	0.66 J	0.41 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.285 U	0.30 U	0.31 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	180000	190000	130000
Calcium (dissolved)	µg/L	93000	86000	90000	95000
Chromium	µg/L	8.1	72	82	10
Chromium (dissolved)	µg/L	0.98 U	5.0	5.7	0.98 U
Cobalt	µg/L	1.4	11	12	3.6
Cobalt (dissolved)	µg/L	0.27 J	1.1	1.3	0.31 U
Copper	µg/L	8.0 U	40	45	14
Copper (dissolved)	µg/L	2.97 U	6.5 U	5.3 U	1.7 U
Iron	µg/L	8100	36000	41000	11000
Iron (dissolved)	µg/L	3800	4500	4900	3600
Lead	µg/L	2.7	17	19	7.9
Lead (dissolved)	µg/L	0.45 U	1.3	1.5	0.61 U
Magnesium	µg/L	47000	64000	67000	48000
Magnesium (dissolved)	µg/L	39000	37000	38000	38000
Manganese	µg/L	200	760	850	330
Manganese (dissolved)	µg/L	110	200	210	150
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	4.9	31	35	8.7
Nickel (dissolved)	µg/L	1.5 U	3.9	4.2	1.5 U
Potassium	µg/L	6300	8600	9000	7200
Potassium (dissolved)	µg/L	5500	5100	5300	5700
Selenium	µg/L	0.89 U	1.6 J	1.8 J	1.2 J
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.12 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample Name:		**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**	**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**
Sample Date:		**10/10/2018**	**10/10/2018**	**10/10/2018**	**10/11/2018**
Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**110-120 ft BGS Duplicate**	**120-130 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	45000	40000	39000	37000
Sodium (dissolved)	µg/L	44000	39000	40000	37000
Thallium	µg/L	0.20 U	0.40 J	0.45 J	0.22 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	4.4 J	28	31	10
Vanadium (dissolved)	µg/L	0.82 U	2.3 J	2.6 J	0.82 U
Zinc	µg/L	1200	940	860	510
Zinc (dissolved)	µg/L	1100	510	530	460
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	84000	77000	77000	80000
Nitrate (as N)	µg/L	75 J	290	300	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	64000	64000	64000	74000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**	**GW-38443-091818-JC-172**	**GW-38443-091918-JC-173**
Sample Date:		**10/11/2018**	**10/11/2018**	**09/18/2018**	**09/19/2018**
Depth:		**130-140 ft BGS**	**140-150 ft BGS**	**25-30 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.96 UJ	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.52 UJ	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.36 UJ	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	1.5 J	0.17 J
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.76 UJ	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	1.0 UJ	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	1.1 J	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.84 UJ	1.2
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.60 UJ	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.60 UJ	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.64 UJ	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	4.6 UJ	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	2.2 UJ	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	21 J	1.2 J
Acetone	µg/L	5.4 U	5.4 U	22 UJ	5.4 U
Benzene	µg/L	0.13 U	0.13 U	1.1 J	0.13 U
Bromodichloromethane	µg/L	1.2	0.17 U	0.68 UJ	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	3.0 UJ	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	1.7 UJ	0.42 U
Carbon disulfide	µg/L	0.76 J	0.28 U	1.1 UJ	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	1.0 UJ	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	10 J	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	3.3 UJ	1.4
Chloroform (Trichloromethane)	µg/L	3.3	0.53 J	0.52 UJ	0.36 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.80 UJ	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.64 UJ	0.21 J
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	2.4 UJ	0.61 UJ
Cyclohexane	µg/L	0.24 U	0.24 U	0.96 UJ	0.24 U
Dibromochloromethane	µg/L	0.88 J	0.39 U	1.6 UJ	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	1.4 UJ	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	4.5 J	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	1.7 J	0.090 U
m&p-Xylenes	µg/L	0.11 J	0.080 U	12 J	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	6.9 UJ	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	1.3 UJ	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.28 UJ	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	10 UJ	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	6.6 J	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**	**GW-38443-091818-JC-172**	**GW-38443-091918-JC-173**
Sample Date:		**10/11/2018**	**10/11/2018**	**09/18/2018**	**09/19/2018**
Depth:		**130-140 ft BGS**	**140-150 ft BGS**	**25-30 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.40 UJ	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.60 UJ	0.15 U
Toluene	µg/L	0.29 J	0.15 J	82 J	1.6
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.76 UJ	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	2.7 UJ	0.67 UJ
Trichloroethene	µg/L	0.10 U	0.10 U	2.4 J	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	1.8 UJ	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	1.6 UJ	0.41 U
Vinyl chloride	µg/L	1.5	1.3	0.80 UJ	0.55 J
Xylenes (total)	µg/L	0.15 U	0.15 U	19 J	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	2.6 U	--
2,4,5-Trichlorophenol	µg/L	--	--	9.6 U	--
2,4,6-Trichlorophenol	µg/L	--	--	8.7 U	--
2,4-Dichlorophenol	µg/L	--	--	1.3 U	--
2,4-Dimethylphenol	µg/L	--	--	2.5 U	--
2,4-Dinitrophenol	µg/L	--	--	30 U	--
2,4-Dinitrotoluene	µg/L	--	--	10 U	--
2,6-Dinitrotoluene	µg/L	--	--	10 U	--
2-Chloronaphthalene	µg/L	--	--	2.3 U	--
2-Chlorophenol	µg/L	--	--	1.3 U	--
2-Methylnaphthalene	µg/L	--	--	0.53 U	--
2-Methylphenol	µg/L	--	--	1.0 U	--
2-Nitroaniline	µg/L	--	--	2.5 U	--
2-Nitrophenol	µg/L	--	--	2.7 U	--
3&4-Methylphenol	µg/L	--	--	0.92 U	--
3,3'-Dichlorobenzidine	µg/L	--	--	5.5 U	--
3-Nitroaniline	µg/L	--	--	2.7 U	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	14 U	--
4-Bromophenyl phenyl ether	µg/L	--	--	2.4 U	--
4-Chloro-3-methylphenol	µg/L	--	--	1.4 U	--
4-Chloroaniline	µg/L	--	--	1.5 U	--
4-Chlorophenyl phenyl ether	µg/L	--	--	2.6 U	--
4-Nitroaniline	µg/L	--	--	4.4 U	--
4-Nitrophenol	µg/L	--	--	10 U	--
Acenaphthene	µg/L	--	--	0.83 U	--
Acenaphthylene	µg/L	--	--	0.60 U	--
Acetophenone	µg/L	--	--	1.8 U	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**	**GW-38443-091818-JC-172**	**GW-38443-091918-JC-173**
Sample Date:		**10/11/2018**	**10/11/2018**	**09/18/2018**	**09/19/2018**
Depth:		**130-140 ft BGS**	**140-150 ft BGS**	**25-30 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	0.65 U	--
Atrazine	µg/L	--	--	4.6 U	--
Benzaldehyde	µg/L	--	--	3.6 U	--
Benzo(a)anthracene	µg/L	--	--	0.82 U	--
Benzo(a)pyrene	µg/L	--	--	0.83 U	--
Benzo(b)fluoranthene	µg/L	--	--	0.74 U	--
Benzo(g,h,i)perylene	µg/L	--	--	0.86 U	--
Benzo(k)fluoranthene	µg/L	--	--	0.67 U	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	2.4 U	--
bis(2-Chloroethoxy)methane	µg/L	--	--	2.2 U	--
bis(2-Chloroethyl)ether	µg/L	--	--	1.9 U	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	160	--
Butyl benzylphthalate (BBP)	µg/L	--	--	3.2 U	--
Caprolactam	µg/L	--	--	4.5 U	--
Carbazole	µg/L	--	--	2.4 U	--
Chrysene	µg/L	--	--	0.89 U	--
Di-n-butylphthalate (DBP)	µg/L	--	--	8.7 U	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	3.9 U	--
Dibenz(a,h)anthracene	µg/L	--	--	0.73 U	--
Dibenzofuran	µg/L	--	--	2.7 U	--
Diethyl phthalate	µg/L	--	--	18 U	--
Dimethyl phthalate	µg/L	--	--	2.5 U	--
Fluoranthene	µg/L	--	--	0.77 U	--
Fluorene	µg/L	--	--	0.81 U	--
Hexachlorobenzene	µg/L	--	--	0.77 U	--
Hexachlorobutadiene	µg/L	--	--	2.6 U	--
Hexachlorocyclopentadiene	µg/L	--	--	8.4 U	--
Hexachloroethane	µg/L	--	--	1.9 U	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	0.65 U	--
Isophorone	µg/L	--	--	1.6 U	--
N-Nitrosodi-n-propylamine	µg/L	--	--	1.2 U	--
N-Nitrosodiphenylamine	µg/L	--	--	2.1 U	--
Naphthalene	µg/L	--	--	1.9	--
Nitrobenzene	µg/L	--	--	2.5 U	--
Pentachlorophenol	µg/L	--	--	15 U	--
Phenanthrene	µg/L	--	--	0.80 U	--
Phenol	µg/L	--	--	0.62 U	--
Pyrene	µg/L	--	--	0.84 U	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

	Location ID:	VAS-36	VAS-36	VAS-37	VAS-37
	Sample Name:	GW-38443-101118-JC-212	GW-38443-101118-JC-213	GW-38443-091818-JC-172	GW-38443-091918-JC-173
	Sample Date:	10/11/2018	10/11/2018	09/18/2018	09/19/2018
	Depth:	130-140 ft BGS	140-150 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	0.053 U	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	0.054 U	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	0.070 U	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	0.072 U	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	0.048 U	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	0.038 U	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	0.044 U	--
Pesticides					
4,4'-DDD	µg/L	--	--	0.28 U	--
4,4'-DDE	µg/L	--	--	0.23 U	--
4,4'-DDT	µg/L	--	--	0.26 U	--
Aldrin	µg/L	--	--	0.13 U	--
alpha-BHC	µg/L	--	--	0.11 U	--
alpha-Chlordane	µg/L	--	--	0.17 U	--
beta-BHC	µg/L	--	--	0.24 U	--
delta-BHC	µg/L	--	--	0.23 U	--
Dieldrin	µg/L	--	--	0.12 U	--
Endosulfan I	µg/L	--	--	0.20 U	--
Endosulfan II	µg/L	--	--	0.12 U	--
Endosulfan sulfate	µg/L	--	--	0.20 U	--
Endrin	µg/L	--	--	0.13 U	--
Endrin aldehyde	µg/L	--	--	0.24 U	--
Endrin ketone	µg/L	--	--	0.21 U	--
gamma-BHC (lindane)	µg/L	--	--	0.13 U	--
gamma-Chlordane	µg/L	--	--	0.27 U	--
Heptachlor	µg/L	--	--	0.18 U	--
Heptachlor epoxide	µg/L	--	--	0.14 U	--
Methoxychlor	µg/L	--	--	0.25 U	--
Toxaphene	µg/L	--	--	3.1 U	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-36**	**VAS-36**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**	**GW-38443-091818-JC-172**	**GW-38443-091918-JC-173**
Sample Date:		**10/11/2018**	**10/11/2018**	**09/18/2018**	**09/19/2018**
Depth:		**130-140 ft BGS**	**140-150 ft BGS**	**25-30 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	15000 J	23000 J	9900	50
Aluminum (dissolved)	µg/L	310 U	34 U	34 U	34 U
Antimony	µg/L	1.5 J	1.2 J	13	0.57 U
Antimony (dissolved)	µg/L	0.57 J	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	10	8.8	48	3.3 J
Arsenic (dissolved)	µg/L	1.2 J	1.1 J	31	3.5 J
Barium	µg/L	430	570	1500	300
Barium (dissolved)	µg/L	290	380	1400	320
Beryllium	µg/L	1.1	1.1	0.82 J	0.31 U
Beryllium (dissolved)	µg/L	0.77 J	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.71 U	0.71 U	4.0	0.21 U
Cadmium (dissolved)	µg/L	0.29 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	220000	210000	130000	79000
Calcium (dissolved)	µg/L	73000	87000	40000	84000
Chromium	µg/L	79	94	33	0.98 U
Chromium (dissolved)	µg/L	1.1 J	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	14	17	9.4	0.31 J
Cobalt (dissolved)	µg/L	0.68 U	0.31 U	0.42 J	0.27 J
Copper	µg/L	54	65	170	1.7 U
Copper (dissolved)	µg/L	3.5 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	44000	48000	32000	3200
Iron (dissolved)	µg/L	2000	2800	1600	2800
Lead	µg/L	25	25	340	1.5
Lead (dissolved)	µg/L	0.65 U	0.45 U	0.45 U	0.58 J
Magnesium	µg/L	79000	70000	100000	51000
Magnesium (dissolved)	µg/L	34000	40000	73000	54000
Manganese	µg/L	1000	1200	580	41
Manganese (dissolved)	µg/L	190	200	39	39
Mercury	µg/L	0.13 U	0.13 U	0.18 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	36	44	46	2.2
Nickel (dissolved)	µg/L	2.0	1.5 U	4.3	2.0
Potassium	µg/L	11000	15000	62000	22000
Potassium (dissolved)	µg/L	6100	8100	65000	23000
Selenium	µg/L	2.7 J	2.1 J	2.8 J	0.89 U
Selenium (dissolved)	µg/L	1.1 J	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.094 J	0.089 J	0.33 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

	Location ID:	VAS-36	VAS-36	VAS-37	VAS-37
	Sample Name:	GW-38443-101118-JC-212	GW-38443-101118-JC-213	GW-38443-091818-JC-172	GW-38443-091918-JC-173
	Sample Date:	10/11/2018	10/11/2018	09/18/2018	09/19/2018
	Depth:	130-140 ft BGS	140-150 ft BGS	25-30 ft BGS	35-40 ft BGS
Parameters	**Unit**				
Sodium	µg/L	37000	37000	90000	74000
Sodium (dissolved)	µg/L	35000	37000	99000	78000
Thallium	µg/L	0.55 U	0.51 U	0.35 J	0.20 U
Thallium (dissolved)	µg/L	0.23 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	39	52	31	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	1200	440	1200	900
Zinc (dissolved)	µg/L	540	150	270	910
General Chemistry					
Cyanide (total)	mg/L	--	--	0.0060 U	--
Chloride	µg/L	76000	82000	76000	78000
Nitrate (as N)	µg/L	350	37 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	61000	66000	350 U	24000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-091918-JC-174**	**GW-38443-091918-JC-175**	**GW-38443-092018-JC-176**	**GW-38443-092018-JC-177**
Sample Date:		**09/19/2018**	**09/19/2018**	**09/20/2018**	**09/20/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 UJ	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.21 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 UJ	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.24 J	0.25 J	0.27 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.41 J	11	11
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 UJ	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.11 J	0.16 J
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-091918-JC-174**	**GW-38443-091918-JC-175**	**GW-38443-092018-JC-176**	**GW-38443-092018-JC-177**
Sample Date:		**09/19/2018**	**09/19/2018**	**09/20/2018**	**09/20/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	2.5 U	2.5 U
Toluene	µg/L	0.14 U	1.8	1.2	1.5
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 UJ	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	2.6	2.8	2.6
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	0.53 U	--	--
2,4,5-Trichlorophenol	µg/L	--	1.9 U	--	--
2,4,6-Trichlorophenol	µg/L	--	1.7 U	--	--
2,4-Dichlorophenol	µg/L	--	0.25 U	--	--
2,4-Dimethylphenol	µg/L	--	0.50 U	--	--
2,4-Dinitrophenol	µg/L	--	6.0 U	--	--
2,4-Dinitrotoluene	µg/L	--	2.0 U	--	--
2,6-Dinitrotoluene	µg/L	--	2.0 U	--	--
2-Chloronaphthalene	µg/L	--	0.46 U	--	--
2-Chlorophenol	µg/L	--	0.26 U	--	--
2-Methylnaphthalene	µg/L	--	0.11 U	--	--
2-Methylphenol	µg/L	--	0.20 U	--	--
2-Nitroaniline	µg/L	--	0.49 U	--	--
2-Nitrophenol	µg/L	--	0.54 U	--	--
3&4-Methylphenol	µg/L	--	0.18 U	--	--
3,3'-Dichlorobenzidine	µg/L	--	1.1 U	--	--
3-Nitroaniline	µg/L	--	0.54 U	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	2.7 U	--	--
4-Bromophenyl phenyl ether	µg/L	--	0.48 U	--	--
4-Chloro-3-methylphenol	µg/L	--	0.28 U	--	--
4-Chloroaniline	µg/L	--	0.30 U	--	--
4-Chlorophenyl phenyl ether	µg/L	--	0.53 U	--	--
4-Nitroaniline	µg/L	--	0.88 U	--	--
4-Nitrophenol	µg/L	--	2.1 U	--	--
Acenaphthene	µg/L	--	0.17 U	--	--
Acenaphthylene	µg/L	--	0.12 U	--	--
Acetophenone	µg/L	--	0.35 U	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		VAS-37	VAS-37	VAS-37	VAS-37
Sample Name:		GW-38443-091918-JC-174	GW-38443-091918-JC-175	GW-38443-092018-JC-176	GW-38443-092018-JC-177
Sample Date:		09/19/2018	09/19/2018	09/20/2018	09/20/2018
Depth:		40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate
Parameters	**Unit**				
Anthracene	µg/L	--	0.13 U	--	--
Atrazine	µg/L	--	0.92 U	--	--
Benzaldehyde	µg/L	--	0.73 U	--	--
Benzo(a)anthracene	µg/L	--	0.16 U	--	--
Benzo(a)pyrene	µg/L	--	0.17 U	--	--
Benzo(b)fluoranthene	µg/L	--	0.15 U	--	--
Benzo(g,h,i)perylene	µg/L	--	0.17 U	--	--
Benzo(k)fluoranthene	µg/L	--	0.13 U	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	0.47 U	--	--
bis(2-Chloroethoxy)methane	µg/L	--	0.44 U	--	--
bis(2-Chloroethyl)ether	µg/L	--	0.39 U	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	2.1 U	--	--
Butyl benzylphthalate (BBP)	µg/L	--	0.64 U	--	--
Caprolactam	µg/L	--	0.90 U	--	--
Carbazole	µg/L	--	0.47 U	--	--
Chrysene	µg/L	--	0.18 U	--	--
Di-n-butylphthalate (DBP)	µg/L	--	1.7 U	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	0.79 U	--	--
Dibenz(a,h)anthracene	µg/L	--	0.15 U	--	--
Dibenzofuran	µg/L	--	0.54 U	--	--
Diethyl phthalate	µg/L	--	3.7 U	--	--
Dimethyl phthalate	µg/L	--	0.50 U	--	--
Fluoranthene	µg/L	--	0.15 U	--	--
Fluorene	µg/L	--	0.16 U	--	--
Hexachlorobenzene	µg/L	--	0.15 U	--	--
Hexachlorobutadiene	µg/L	--	0.52 U	--	--
Hexachlorocyclopentadiene	µg/L	--	1.7 U	--	--
Hexachloroethane	µg/L	--	0.38 U	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	0.13 U	--	--
Isophorone	µg/L	--	0.31 U	--	--
N-Nitrosodi-n-propylamine	µg/L	--	0.24 U	--	--
N-Nitrosodiphenylamine	µg/L	--	0.42 U	--	--
Naphthalene	µg/L	--	0.10 U	--	--
Nitrobenzene	µg/L	--	0.49 U	--	--
Pentachlorophenol	µg/L	--	3.0 U	--	--
Phenanthrene	µg/L	--	0.16 U	--	--
Phenol	µg/L	--	0.12 U	--	--
Pyrene	µg/L	--	0.17 U	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-091918-JC-174**	**GW-38443-091918-JC-175**	**GW-38443-092018-JC-176**	**GW-38443-092018-JC-177**
Sample Date:		**09/19/2018**	**09/19/2018**	**09/20/2018**	**09/20/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	0.054 U	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	0.055 U	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	0.071 U	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	0.073 U	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	0.048 U	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	0.038 U	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	0.044 U	--	--
Pesticides					
4,4'-DDD	µg/L	--	0.0051 UJ	--	--
4,4'-DDE	µg/L	--	0.0041 UJ	--	--
4,4'-DDT	µg/L	--	0.0046 UJ	--	--
Aldrin	µg/L	--	0.0023 UJ	--	--
alpha-BHC	µg/L	--	0.0019 UJ	--	--
alpha-Chlordane	µg/L	--	0.0031 UJ	--	--
beta-BHC	µg/L	--	0.0044 UJ	--	--
delta-BHC	µg/L	--	0.0041 UJ	--	--
Dieldrin	µg/L	--	0.0022 UJ	--	--
Endosulfan I	µg/L	--	0.0036 UJ	--	--
Endosulfan II	µg/L	--	0.0022 UJ	--	--
Endosulfan sulfate	µg/L	--	0.0036 UJ	--	--
Endrin	µg/L	--	0.0024 UJ	--	--
Endrin aldehyde	µg/L	--	0.0044 UJ	--	--
Endrin ketone	µg/L	--	0.0038 UJ	--	--
gamma-BHC (lindane)	µg/L	--	0.0024 UJ	--	--
gamma-Chlordane	µg/L	--	0.0048 UJ	--	--
Heptachlor	µg/L	--	0.0032 UJ	--	--
Heptachlor epoxide	µg/L	--	0.0025 UJ	--	--
Methoxychlor	µg/L	--	0.0045 UJ	--	--
Toxaphene	µg/L	--	0.056 UJ	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-091918-JC-174**	**GW-38443-091918-JC-175**	**GW-38443-092018-JC-176**	**GW-38443-092018-JC-177**
Sample Date:		**09/19/2018**	**09/19/2018**	**09/20/2018**	**09/20/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	230	310	34 U	80 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	2.9 J	3.5 J	1.2 J	1.2 J
Arsenic (dissolved)	µg/L	2.9 J	3.0 J	1.1 J	1.2 J
Barium	µg/L	160	130	120	120
Barium (dissolved)	µg/L	160	120	120	120
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	110000	120000	120000	120000
Calcium (dissolved)	µg/L	110000	120000	120000	120000
Chromium	µg/L	1.3 J	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.49 J	0.59 J	0.61 J	0.60 J
Cobalt (dissolved)	µg/L	0.38 J	0.36 J	0.60 J	0.60 J
Copper	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	4200	3900	3600	3600
Iron (dissolved)	µg/L	3500	3300	3400	3500
Lead	µg/L	2.2	1.6	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.62 J	0.45 U	0.45 U
Magnesium	µg/L	67000	61000	54000	54000
Magnesium (dissolved)	µg/L	67000	59000	53000	53000
Manganese	µg/L	110	120	210	210
Manganese (dissolved)	µg/L	98	110	200	200
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.15 J
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.24
Nickel	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	19000	16000	13000	14000
Potassium (dissolved)	µg/L	19000	16000	13000	13000
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-091918-JC-174**	**GW-38443-091918-JC-175**	**GW-38443-092018-JC-176**	**GW-38443-092018-JC-177**
Sample Date:		**09/19/2018**	**09/19/2018**	**09/20/2018**	**09/20/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Parameters	**Unit**				
Sodium	µg/L	76000	82000	76000	77000
Sodium (dissolved)	µg/L	76000	81000	75000	77000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	490	1300	2700	2700
Zinc (dissolved)	µg/L	450	840	2600	2500
General Chemistry					
Cyanide (total)	mg/L	--	0.0060 U	--	--
Chloride	µg/L	120000	120000	110000	110000
Nitrate (as N)	µg/L	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	72000	77000	71000	71000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**
Sample Date:		**09/20/2018**	**09/21/2018**	**09/24/2018**	**09/24/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.74 J
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.42 J	0.13 U	0.25 J
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.36 J
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.27 J	0.13 J	0.13 U	0.26 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	13	17	9.3	11
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.13 J
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.18 J
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.21 J	0.12 J	0.15 J	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**
Sample Date:		**09/20/2018**	**09/21/2018**	**09/24/2018**	**09/24/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	2.5 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	8.1	0.68 J	6.6	5.0
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.31 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	2.3	3.2	2.5	1.7
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.18 J
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

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Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**
Sample Date:		**09/20/2018**	**09/21/2018**	**09/24/2018**	**09/24/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**
Sample Date:		**09/20/2018**	**09/21/2018**	**09/24/2018**	**09/24/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

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ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**
Sample Date:		**09/20/2018**	**09/21/2018**	**09/24/2018**	**09/24/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	920	150	50	3300
Aluminum (dissolved)	µg/L	42 J	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	2.5 J	2.0 J	1.7 J	3.7 J
Arsenic (dissolved)	µg/L	1.7 J	1.9 J	1.9 J	1.3 J
Barium	µg/L	120	120	110	150
Barium (dissolved)	µg/L	110	110	110	110
Beryllium	µg/L	0.31 U	0.31 U	0.45 J	0.84 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.37 J
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	140000	120000	120000	170000
Calcium (dissolved)	µg/L	120000	120000	120000	120000
Chromium	µg/L	7.5	0.98 U	0.98 U	19
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	1.3	0.67 J	0.81 J	3.1
Cobalt (dissolved)	µg/L	0.56 J	0.50 J	0.68 J	0.49 J
Copper	µg/L	54 U	2.0	1.7 U	14
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	7200	8000	6100	16000
Iron (dissolved)	µg/L	3600	4700	4400	3200
Lead	µg/L	2.5 U	0.51 J	0.45 U	5.3
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	54000	47000	45000	61000
Magnesium (dissolved)	µg/L	49000	46000	44000	45000
Manganese	µg/L	420	280	250	440
Manganese (dissolved)	µg/L	350	250	230	170
Mercury	µg/L	0.13 U	0.20	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.19 J	0.13 U	0.13 U
Nickel	µg/L	3.7	1.6 J	1.5 U	9.2
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	10000	9400	8300	9800
Potassium (dissolved)	µg/L	10000	9300	8100	8700
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

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Location ID:		**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**
Sample Name:		**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**
Sample Date:		**09/20/2018**	**09/21/2018**	**09/24/2018**	**09/24/2018**
Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	77000	81000	78000	79000
Sodium (dissolved)	µg/L	79000	79000	76000	77000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.25 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.3 J	0.82 U	0.82 U	9.4
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	2500	1600	1600	2000
Zinc (dissolved)	µg/L	2300	1400	1500	1400
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	120000	120000	120000	130000
Nitrate (as N)	µg/L	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	82000	83000	81000	83000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**
Sample Date:		**09/07/2018**	**09/07/2018**	**09/07/2018**	**09/10/2018**
Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.89 J	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	6.6	2.8	1.1	0.83 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.14 J	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.27 J	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

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July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**
Sample Date:		**09/07/2018**	**09/07/2018**	**09/07/2018**	**09/10/2018**
Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.17 J	0.29 J	0.22 J
Toluene	µg/L	0.16 J	0.21 J	0.84 J	0.45 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.20 J
Trichlorofluoromethane (CFC-11)	µg/L	0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.27 J	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**
Sample Date:		**09/07/2018**	**09/07/2018**	**09/07/2018**	**09/10/2018**
Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**
Sample Date:		**09/07/2018**	**09/07/2018**	**09/07/2018**	**09/10/2018**
Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**
Sample Date:		**09/07/2018**	**09/07/2018**	**09/07/2018**	**09/10/2018**
Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	940 U	100 U	1500	4300
Aluminum (dissolved)	µg/L	100 U	34 U	34 U	34 U
Antimony	µg/L	2.3	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	1.9 J	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	0.99 J	0.75 U	3.3 J	6.7
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	0.75 U
Barium	µg/L	120	210	270	310
Barium (dissolved)	µg/L	100	190	240	290
Beryllium	µg/L	0.54 J	0.35 J	0.31 U	1.1
Beryllium (dissolved)	µg/L	0.35 J	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	61000	110000	180000	220000
Calcium (dissolved)	µg/L	57000	97000	130000	140000
Chromium	µg/L	2.8	0.98 U	3.8	19
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.89 U	0.94 U	2.3	4.1
Cobalt (dissolved)	µg/L	0.35 U	0.76 U	0.96 U	1.0
Copper	µg/L	42	43	8.2 U	14
Copper (dissolved)	µg/L	2.8 U	3.7 U	1.7 U	1.7 U
Iron	µg/L	1500 U	400 U	4300	13000
Iron (dissolved)	µg/L	400 U	47 U	400 U	690
Lead	µg/L	3.3	1.3 U	3.2	6.1
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	37000	49000	67000	82000
Magnesium (dissolved)	µg/L	35000	43000	45000	51000
Manganese	µg/L	92	120	300	950
Manganese (dissolved)	µg/L	49 U	99	180	450
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.8 J	1.5 J	5.4	13
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.6 J	2.6
Potassium	µg/L	5100	7400	9100	7900 J
Potassium (dissolved)	µg/L	4700	6400	8500	9700 J
Selenium	µg/L	5.1	15	14	10
Selenium (dissolved)	µg/L	5.2	14	14	15
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**
Sample Date:		**09/07/2018**	**09/07/2018**	**09/07/2018**	**09/10/2018**
Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	65000	130000	160000	140000 J
Sodium (dissolved)	µg/L	63000	110000	160000	200000 J
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.32 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.2 J	0.82 U	3.7 J	9.6
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	1200	2000	2400	3300
Zinc (dissolved)	µg/L	1000	1600	1800	1300
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	120000	230000	310000	370000
Nitrate (as N)	µg/L	1600	1000	580	610
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	57000	82000	83000	81000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091018-JC-159**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**
Sample Date:		**09/10/2018**	**09/11/2018**	**09/11/2018**	**09/11/2018**
Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.28 J	0.26 J	0.17 J	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.39 J	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.53 J
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.90 J	0.66 J	0.44 J	0.24 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.28 J	2.1	2.0	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.14 J	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.17 J	0.22 J	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091018-JC-159**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**
Sample Date:		**09/10/2018**	**09/11/2018**	**09/11/2018**	**09/11/2018**
Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	2.0	0.14 J	0.33 J	4.8
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	1.7	0.64 J	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091018-JC-159**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**
Sample Date:		**09/10/2018**	**09/11/2018**	**09/11/2018**	**09/11/2018**
Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091018-JC-159**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**
Sample Date:		**09/10/2018**	**09/11/2018**	**09/11/2018**	**09/11/2018**
Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091018-JC-159**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**
Sample Date:		**09/10/2018**	**09/11/2018**	**09/11/2018**	**09/11/2018**
Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	1200	250	150	13000
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	1.8 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	2.7 J	0.98 J	2.3 J	14
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	2.3 J	5.0
Barium	µg/L	320 J	160	120	260
Barium (dissolved)	µg/L	230 J	160	120	150
Beryllium	µg/L	0.31 U	0.48 J	0.31 U	0.63 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	170000	120000	97000	230000
Calcium (dissolved)	µg/L	130000	110000	95000	96000
Chromium	µg/L	4.2	0.98 U	0.98 U	63
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	1.8	0.57 J	0.24 J	7.5
Cobalt (dissolved)	µg/L	0.96 J	0.32 J	0.19 U	0.19 U
Copper	µg/L	5.5	1.7 U	1.7 U	28
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	3900	4500	1900	37000
Iron (dissolved)	µg/L	48 J	1400	1600	2600
Lead	µg/L	1.9	0.58 J	0.45 U	12
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 J	0.45 U
Magnesium	µg/L	64000	43000	35000	87000
Magnesium (dissolved)	µg/L	48000	41000	34000	41000
Manganese	µg/L	510	240	120	630
Manganese (dissolved)	µg/L	560	220	110	76
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	5.0	2.5	1.5 U	25
Nickel (dissolved)	µg/L	2.7	1.5 U	1.5 U	1.5 U
Potassium	µg/L	9600	5200	4300	7500
Potassium (dissolved)	µg/L	6400	5000	4400	3200
Selenium	µg/L	14	0.96 J	0.89 U	0.89 U
Selenium (dissolved)	µg/L	10	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.056 J
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091018-JC-159**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**
Sample Date:		**09/10/2018**	**09/11/2018**	**09/11/2018**	**09/11/2018**
Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	190000	84000	50000	44000
Sodium (dissolved)	µg/L	140000	83000	51000	45000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.30 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.9 J	0.82 U	0.82 U	26
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	1300	1500	170	740
Zinc (dissolved)	µg/L	2800	1300	170	310
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	300000	180000	86000	86000
Nitrate (as N)	µg/L	1200	240	27 J	14 J
Nitrite (as N)	µg/L	26 J	14 U	14 U	14 U
Sulfate	µg/L	68000	62000	61000	70000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		VAS-40	VAS-40	VAS-40	VAS-40
Sample Name:		GW-38443-091118-JC-163	GW-38443-091218-JC-165	GW-38443-091218-JC-166	GW-38443-091318-JC-167
Sample Date:		09/11/2018	09/12/2018	09/12/2018	09/13/2018
Depth:		80-90 ft BGS Duplicate	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.18 J	0.79 J	0.18 J
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.97 J	0.28 U	0.34 J	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.25 J	0.60 J	1.7	0.67 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.18 J	0.66 J
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.92 J	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.14 J	0.080 U	0.12 J	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**	**GW-38443-091318-JC-167**
Sample Date:		**09/11/2018**	**09/12/2018**	**09/12/2018**	**09/13/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**
		Duplicate			
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	5.1	1.2	2.8	0.25 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**	**GW-38443-091318-JC-167**
Sample Date:		**09/11/2018**	**09/12/2018**	**09/12/2018**	**09/13/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**
		Duplicate			
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**	**GW-38443-091318-JC-167**
Sample Date:		**09/11/2018**	**09/12/2018**	**09/12/2018**	**09/13/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**
		Duplicate			
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**	**GW-38443-091318-JC-167**
Sample Date:		**09/11/2018**	**09/12/2018**	**09/12/2018**	**09/13/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**
		Duplicate			
Parameters	**Unit**				
Metals					
Aluminum	µg/L	12000	23000	15000	570
Aluminum (dissolved)	µg/L	34 U	3800	34 U	34 U
Antimony	µg/L	1.5 J	0.77 J	1.0 J	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	12	13	15	4.1 J
Arsenic (dissolved)	µg/L	4.7 J	5.8	2.8 J	2.7 J
Barium	µg/L	240	290	250	150
Barium (dissolved)	µg/L	140	170	130	130
Beryllium	µg/L	0.58 J	1.0	0.71 J	0.74 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.25 J	0.28 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	200000	200000	270000	96000
Calcium (dissolved)	µg/L	92000	100000	84000	94000
Chromium	µg/L	57	43	55	2.8
Chromium (dissolved)	µg/L	0.98 U	7.1	0.98 U	0.98 U
Cobalt	µg/L	6.7	12	9.6	1.3
Cobalt (dissolved)	µg/L	0.19 U	2.0	0.19 J	0.22 J
Copper	µg/L	25	35	38	2.3
Copper (dissolved)	µg/L	1.7 U	5.5	1.7 U	1.7 U
Iron	µg/L	33000	41000	33000	19000
Iron (dissolved)	µg/L	2500	8800	1400	3300
Lead	µg/L	11	21	18	1.2
Lead (dissolved)	µg/L	0.45 U	3.2	0.45 U	0.45 U
Magnesium	µg/L	77000	76000	100000	38000
Magnesium (dissolved)	µg/L	39000	43000	37000	37000
Manganese	µg/L	560	790	790	220
Manganese (dissolved)	µg/L	74	210	88	130
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	22	36	27	6.0
Nickel (dissolved)	µg/L	1.5 U	6.7	1.5 U	1.5 U
Potassium	µg/L	7300	11000	8200	3900
Potassium (dissolved)	µg/L	3100	4900	3600	3700
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.059 J	0.057 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample Name:		**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**	**GW-38443-091318-JC-167**
Sample Date:		**09/11/2018**	**09/12/2018**	**09/12/2018**	**09/13/2018**
Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**
		Duplicate			
Parameters	**Unit**				
Sodium	µg/L	42000	40000	39000	37000
Sodium (dissolved)	µg/L	43000	39000	38000	38000
Thallium	µg/L	0.26 J	0.45 J	0.37 J	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	24	42	32	1.5 J
Vanadium (dissolved)	µg/L	0.82 U	6.9	0.82 U	0.82 U
Zinc	µg/L	710	260	430	260
Zinc (dissolved)	µg/L	320	110	220	190
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	86000	82000	76000	76000
Nitrate (as N)	µg/L	14 J	40 J	230	110
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	71000	72000	70000	78000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**
Sample Name:		**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081518-JC-120**
Sample Date:		**09/13/2018**	**09/14/2018**	**09/14/2018**	**08/15/2018**
Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**30-35 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.18 J
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 UJ
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.30 J	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 UJ	0.26 UJ	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.40 J	1.0 J	1.1 J	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	8.6	4.2 J	0.35 J	1.7
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**
Sample Name:		**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081518-JC-120**
Sample Date:		**09/13/2018**	**09/14/2018**	**09/14/2018**	**08/15/2018**
Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**30-35 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.51 J	0.25 J	5.0 J	0.18 J
trans-1,2-Dichloroethene	µg/L	0.29 J	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	2.2
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**
Sample Name:		**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081518-JC-120**
Sample Date:		**09/13/2018**	**09/14/2018**	**09/14/2018**	**08/15/2018**
Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**30-35 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**
Sample Name:		**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081518-JC-120**
Sample Date:		**09/13/2018**	**09/14/2018**	**09/14/2018**	**08/15/2018**
Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**30-35 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**
Sample Name:		**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081518-JC-120**
Sample Date:		**09/13/2018**	**09/14/2018**	**09/14/2018**	**08/15/2018**
Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**30-35 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	2500	990	7700	64
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	1.0 J	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	6.1	1.1 J	4.6 J	0.75 U
Arsenic (dissolved)	µg/L	2.5 J	0.75 J	2.1 J	0.75 U
Barium	µg/L	180	180	230	110
Barium (dissolved)	µg/L	150	180	150	130
Beryllium	µg/L	0.31 U	0.31 U	0.611 U	0.84 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.40 J
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	160000	91000	140000	120000
Calcium (dissolved)	µg/L	110000	94000	100000	130000
Chromium	µg/L	35	3.5	32	1.9 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	2.0 U
Cobalt	µg/L	2.6	1.2	4.2	0.57 J
Cobalt (dissolved)	µg/L	0.22 J	0.44 J	0.19 U	0.51 J
Copper	µg/L	15	2.4	18	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	25000	18000	16000	190
Iron (dissolved)	µg/L	2600	5000	1700	73 J
Lead	µg/L	4.5	2.5	7.1	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	62000	42000	56000	44000
Magnesium (dissolved)	µg/L	42000	44000	44000	48000
Manganese	µg/L	410	310	520	27
Manganese (dissolved)	µg/L	140	250	250	27
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	11	6.0	13	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.8 J	1.5 U	1.5 U
Potassium	µg/L	5100	4400	6400	6900
Potassium (dissolved)	µg/L	4600	4500	4300	7600
Selenium	µg/L	0.89 U	0.89 U	0.89 U	27
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	30
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**
Sample Name:		**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081518-JC-120**
Sample Date:		**09/13/2018**	**09/14/2018**	**09/14/2018**	**08/15/2018**
Depth:		**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**30-35 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	37000	38000	40000	54000
Sodium (dissolved)	µg/L	40000	41000	40000	59000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	8.1	2.0 J	16	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 J
Zinc	µg/L	1200	2000	680	1100 J
Zinc (dissolved)	µg/L	860	1700	500	1400 J
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	76000	76000	76000	100000
Nitrate (as N)	µg/L	36 J	98 J	100	1900
Nitrite (as N)	µg/L	14 U	14 U	14 U	23 J
Sulfate	µg/L	94000	93000	92000	83000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**	**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**
Sample Date:		**08/16/2018**	**08/16/2018**	**08/16/2018**	**08/17/2018**
Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.20 J	0.18 J	0.25 J	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.42 J
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	0.31 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	3.4	8.0	5.2	5.4
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.22 J	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**	**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**
Sample Date:		**08/16/2018**	**08/16/2018**	**08/16/2018**	**08/17/2018**
Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.33 J	1.4	0.62 J	0.33 J
trans-1,2-Dichloroethene	µg/L	0.35 J	1.0	0.42 J	0.35 J
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	3.1	9.0	2.8	2.1
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.22 J	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**	**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**
Sample Date:		**08/16/2018**	**08/16/2018**	**08/16/2018**	**08/17/2018**
Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**	**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**
Sample Date:		**08/16/2018**	**08/16/2018**	**08/16/2018**	**08/17/2018**
Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**	**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**
Sample Date:		**08/16/2018**	**08/16/2018**	**08/16/2018**	**08/17/2018**
Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	770	34 U	34 U	430
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	2.0 J	0.75 U	0.75 U	1.3 J
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	0.75 U
Barium	µg/L	140	69	110	140
Barium (dissolved)	µg/L	120	78	110	130
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	140000	110000	130000	130000
Calcium (dissolved)	µg/L	130000	120000	120000	120000
Chromium	µg/L	3.1 U	1.9 U	2.0 U	3.6 U
Chromium (dissolved)	µg/L	2.0 U	2.0 U	1.7 U	1.8 U
Cobalt	µg/L	1.8	1.4	2.6	1.7
Cobalt (dissolved)	µg/L	0.85 J	1.6	2.4	1.1
Copper	µg/L	6.6	1.7 U	1.7 U	2.7
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	1900	330	670	4600
Iron (dissolved)	µg/L	150	400	570	1100
Lead	µg/L	1.6	3.2	0.45 U	1.7
Lead (dissolved)	µg/L	0.45 U	2.7	0.45 U	0.45 U
Magnesium	µg/L	54000	44000	53000	54000
Magnesium (dissolved)	µg/L	48000	49000	49000	47000
Manganese	µg/L	170	300	240	190
Manganese (dissolved)	µg/L	83	340	220	140
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	4.0	1.7 J	2.3	3.8
Nickel (dissolved)	µg/L	1.5 J	2.1	2.2	1.5 J
Potassium	µg/L	7500	5800	7300	6700
Potassium (dissolved)	µg/L	7300	6500	6800	6300
Selenium	µg/L	14	4.4 J	4.0 J	4.5 J
Selenium (dissolved)	µg/L	14	5.0	3.7 J	4.1 J
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**	**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**
Sample Date:		**08/16/2018**	**08/16/2018**	**08/16/2018**	**08/17/2018**
Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	69000	64000	77000	90000
Sodium (dissolved)	µg/L	70000	71000	72000	87000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.5 J	0.82 U	0.82 U	1.5 J
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	1300	2400	4900	4800
Zinc (dissolved)	µg/L	1100	2500	4200	4100
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	150000	140000	180000	190000
Nitrate (as N)	µg/L	680	330	100	93 J
Nitrite (as N)	µg/L	14 U	43 J	14 U	14 U
Sulfate	µg/L	85000	97000	82000	67000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081718-JC-125**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**
Sample Date:		**08/17/2018**	**08/17/2018**	**08/20/2018**	**08/21/2018**
Depth:		**50-60 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
		Duplicate			
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	8.0 U	4.8 U	4.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	4.3 U	4.2 J	2.2 U
1,1,2-Trichloroethane	µg/L	0.090 U	3.0 U	1.8 U	1.5 U
1,1-Dichloroethane	µg/L	0.23 J	5.7 U	3.4 U	2.8 U
1,1-Dichloroethene	µg/L	0.19 U	6.3 U	3.8 U	3.2 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	8.7 U	5.3 J	4.3 U
1,2-Dichlorobenzene	µg/L	0.15 U	5.0 U	3.0 U	2.5 U
1,2-Dichloroethane	µg/L	0.21 U	7.0 U	4.2 U	3.5 U
1,2-Dichloropropane	µg/L	0.15 U	5.0 U	3.0 U	2.5 U
1,3-Dichlorobenzene	µg/L	0.15 U	5.0 U	3.0 U	2.5 U
1,4-Dichlorobenzene	µg/L	0.16 U	5.3 U	3.2 U	2.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	39 U	23 U	19 U
2-Hexanone	µg/L	0.54 U	18 U	11 J	9.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	14 U	13 J	7.0 U
Acetone	µg/L	5.4 U	180 U	110 U	90 U
Benzene	µg/L	0.13 U	4.3 U	2.6 U	2.2 U
Bromodichloromethane	µg/L	0.17 U	5.7 U	3.4 U	2.8 U
Bromoform	µg/L	0.76 U	25 U	15 U	13 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	14 U	8.4 U	7.0 U
Carbon disulfide	µg/L	0.45 J	9.3 U	5.6 U	4.7 U
Carbon tetrachloride	µg/L	0.26 U	8.7 U	5.2 U	4.3 U
Chlorobenzene	µg/L	0.14 U	4.7 U	2.8 U	2.3 U
Chloroethane	µg/L	0.83 U	28 U	17 U	14 U
Chloroform (Trichloromethane)	µg/L	0.37 J	4.3 U	2.6 U	2.2 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	6.7 U	4.0 U	3.3 U
cis-1,2-Dichloroethene	µg/L	5.8	480	360	330
cis-1,3-Dichloropropene	µg/L	0.61 U	20 U	12 UJ	10 U
Cyclohexane	µg/L	0.24 U	8.0 U	4.8 U	4.0 U
Dibromochloromethane	µg/L	0.39 U	13 U	7.8 U	6.5 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	12 U	7.0 U	5.8 U
Ethylbenzene	µg/L	0.11 U	3.7 U	2.2 U	1.8 U
Isopropyl benzene	µg/L	0.090 U	3.0 U	1.8 U	1.5 U
m&p-Xylenes	µg/L	0.080 U	2.7 U	1.6 U	1.3 U
Methyl acetate	µg/L	1.7 U	57 U	34 U	29 U
Methyl cyclohexane	µg/L	0.33 U	11 U	6.6 U	5.5 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	2.3 U	1.4 U	1.2 U
Methylene chloride	µg/L	2.6 U	87 U	52 U	44 U
o-Xylene	µg/L	0.090 U	3.0 U	1.8 U	1.5 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081718-JC-125**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**
Sample Date:		**08/17/2018**	**08/17/2018**	**08/20/2018**	**08/21/2018**
Depth:		**50-60 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
		Duplicate			
Parameters	**Unit**				
Styrene	µg/L	0.10 U	3.3 U	2.0 U	1.7 U
Tetrachloroethene	µg/L	0.15 U	5.0 U	3.0 U	2.5 U
Toluene	µg/L	0.34 J	4.7 U	2.8 U	2.9 J
trans-1,2-Dichloroethene	µg/L	0.38 J	6.3 U	3.8 U	3.2 U
trans-1,3-Dichloropropene	µg/L	0.67 U	22 U	13 UJ	11 U
Trichloroethene	µg/L	2.1	3.3 U	2.0 U	1.7 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	15 U	9.0 U	7.5 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	14 U	8.2 U	6.8 U
Vinyl chloride	µg/L	0.20 U	170	110	89
Xylenes (total)	µg/L	0.15 U	5.0 U	3.0 U	2.5 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081718-JC-125**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**
Sample Date:		**08/17/2018**	**08/17/2018**	**08/20/2018**	**08/21/2018**
Depth:		**50-60 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
		Duplicate			
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081718-JC-125**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**
Sample Date:		**08/17/2018**	**08/17/2018**	**08/20/2018**	**08/21/2018**
Depth:		**50-60 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
		Duplicate			
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081718-JC-125**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**
Sample Date:		**08/17/2018**	**08/17/2018**	**08/20/2018**	**08/21/2018**
Depth:		**50-60 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
		Duplicate			
Parameters	**Unit**				
Metals					
Aluminum	µg/L	440	270	430	--
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	--
Antimony	µg/L	0.57 U	0.57 U	0.70 J	--
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	--
Arsenic	µg/L	1.1 J	9.3	6.3	--
Arsenic (dissolved)	µg/L	0.75 U	9.6	5.9	--
Barium	µg/L	150	84	85	--
Barium (dissolved)	µg/L	140	84	83	--
Beryllium	µg/L	0.31 U	0.31 U	0.94 U	--
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.61 U	--
Cadmium	µg/L	0.21 U	0.21 U	0.25 J	--
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	--
Calcium	µg/L	130000	91000	94000	--
Calcium (dissolved)	µg/L	120000	87000	93000	--
Chromium	µg/L	3.9 U	3.7 U	5.2 U	--
Chromium (dissolved)	µg/L	1.8 U	1.9 U	2.89 U	--
Cobalt	µg/L	1.8	0.57 J	0.85 J	--
Cobalt (dissolved)	µg/L	1.2	0.38 J	0.51 J	--
Copper	µg/L	2.9	1.7 U	1.7 J	--
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	--
Iron	µg/L	4800	4300	4400	--
Iron (dissolved)	µg/L	1200	3500	3500	--
Lead	µg/L	1.8	0.45 U	1.1	--
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	--
Magnesium	µg/L	53000	43000	43000	--
Magnesium (dissolved)	µg/L	49000	43000	43000 J	--
Manganese	µg/L	190	85	110	--
Manganese (dissolved)	µg/L	140	71	91	--
Mercury	µg/L	0.13 U	0.13 U	0.13 U	--
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	--
Nickel	µg/L	3.8	1.5 U	2.6	--
Nickel (dissolved)	µg/L	1.9 J	1.5 U	1.5 J	--
Potassium	µg/L	6800	16000	18000	--
Potassium (dissolved)	µg/L	6800	16000	18000	--
Selenium	µg/L	4.6 J	0.89 U	1.1 J	--
Selenium (dissolved)	µg/L	4.0 J	0.89 U	0.89 U	--
Silver	µg/L	0.053 U	0.053 U	0.053 U	--
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-081718-JC-125**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**
Sample Date:		**08/17/2018**	**08/17/2018**	**08/20/2018**	**08/21/2018**
Depth:		**50-60 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
		Duplicate			
Parameters	**Unit**				
Sodium	µg/L	90000	57000	54000	--
Sodium (dissolved)	µg/L	92000	58000	56000 J	--
Thallium	µg/L	0.20 U	0.20 U	0.24 J	--
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	--
Vanadium	µg/L	1.6 J	0.96 J	1.4 J	--
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	--
Zinc	µg/L	5000	930	2300	--
Zinc (dissolved)	µg/L	4400	940	2300	--
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	190000	110000	100000	--
Nitrate (as N)	µg/L	93 J	18 J	14 U	--
Nitrite (as N)	µg/L	14 U	14 U	14 U	--
Sulfate	µg/L	67000	75000	73000	--
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**	**GW-38443-082218-JC-133**
Sample Date:		**08/21/2018**	**08/21/2018**	**08/22/2018**	**08/22/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	2.4 U	1.6 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	1.3 U	0.87 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.90 U	0.60 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	1.7 U	1.1 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	1.9 U	1.3 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	2.6 U	1.7 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	1.5 U	1.0 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	2.1 U	1.4 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	1.5 U	1.0 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	1.5 U	1.0 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	1.6 U	1.1 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	12 U	7.7 U	1.2 U	1.2 U
2-Hexanone	µg/L	5.4 U	3.6 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	4.2 U	2.8 U	0.42 U	0.42 U
Acetone	µg/L	54 U	36 U	5.4 U	5.4 U
Benzene	µg/L	1.3 U	0.87 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	1.7 U	1.1 U	0.17 U	0.27 J
Bromoform	µg/L	7.6 U	5.1 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	4.2 U	2.8 U	0.42 U	0.42 U
Carbon disulfide	µg/L	2.8 U	1.9 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	2.6 U	1.7 U	0.26 U	0.26 U
Chlorobenzene	µg/L	1.4 U	0.93 U	0.14 U	0.14 U
Chloroethane	µg/L	8.3 U	5.5 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	1.3 U	1.8 J	0.24 J	0.89 J
Chloromethane (Methyl chloride)	µg/L	2.0 U	1.3 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	190	130	17	6.0
cis-1,3-Dichloropropene	µg/L	6.1 U	4.1 U	0.61 U	0.61 U
Cyclohexane	µg/L	2.4 U	1.6 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	3.9 U	2.6 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	3.5 U	2.3 U	0.35 U	0.35 U
Ethylbenzene	µg/L	1.1 U	0.73 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.90 U	0.60 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.80 U	0.53 U	0.080 U	0.080 U
Methyl acetate	µg/L	17 U	11 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	3.3 U	2.2 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.70 U	0.47 U	0.070 U	0.070 U
Methylene chloride	µg/L	26 U	17 U	2.6 U	2.6 U
o-Xylene	µg/L	0.90 U	0.60 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
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Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**	**GW-38443-082218-JC-133**
Sample Date:		**08/21/2018**	**08/21/2018**	**08/22/2018**	**08/22/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	1.0 U	0.67 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	1.5 U	1.0 U	0.15 U	0.15 U
Toluene	µg/L	1.8 J	2.1 J	1.5	2.4
trans-1,2-Dichloroethene	µg/L	1.9 U	1.3 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	6.7 U	4.5 U	0.67 UJ	0.67 UJ
Trichloroethene	µg/L	1.0 U	0.67 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	4.5 U	3.0 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	4.1 U	2.7 U	0.41 U	0.41 U
Vinyl chloride	µg/L	78	110	21	6.4
Xylenes (total)	µg/L	1.5 U	1.0 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**	**GW-38443-082218-JC-133**
Sample Date:		**08/21/2018**	**08/21/2018**	**08/22/2018**	**08/22/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**	**GW-38443-082218-JC-133**
Sample Date:		**08/21/2018**	**08/21/2018**	**08/22/2018**	**08/22/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**	**GW-38443-082218-JC-133**
Sample Date:		**08/21/2018**	**08/21/2018**	**08/22/2018**	**08/22/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	4500	3400	53	3900
Aluminum (dissolved)	µg/L	140	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.81 J	0.57 U	0.58 J
Antimony (dissolved)	µg/L	0.57 U	0.86 J	0.57 U	0.57 U
Arsenic	µg/L	8.6	6.9	1.6 J	3.6 J
Arsenic (dissolved)	µg/L	4.5 J	3.2 J	1.5 J	1.2 J
Barium	µg/L	110	100	91	150
Barium (dissolved)	µg/L	65	81	92	110
Beryllium	µg/L	0.59 U	0.65 U	0.31 U	0.41 J
Beryllium (dissolved)	µg/L	0.386 U	0.93 U	0.31 U	0.31 U
Cadmium	µg/L	0.24 J	0.24 J	0.21 U	0.24 J
Cadmium (dissolved)	µg/L	0.21 U	0.25 J	0.21 U	0.21 U
Calcium	µg/L	150000	130000	73000	130000
Calcium (dissolved)	µg/L	79000	74000	73000	80000
Chromium	µg/L	23	19	3.0 U	38
Chromium (dissolved)	µg/L	3.4 U	2.89 U	2.89 U	2.89 U
Cobalt	µg/L	4.3	3.4	0.27 J	3.4
Cobalt (dissolved)	µg/L	0.35 J	0.40 J	0.21 J	0.35 J
Copper	µg/L	20	13	1.7 U	14
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	15000	10000	2600	18000
Iron (dissolved)	µg/L	1800	1100	1600	1400
Lead	µg/L	8.4	4.6	0.45 U	4.5
Lead (dissolved)	µg/L	0.57 J	0.45 J	0.45 U	0.45 U
Magnesium	µg/L	53000	54000	34000	49000
Magnesium (dissolved)	µg/L	31000 J	31000 J	34000 J	39000 J
Manganese	µg/L	470	420	190	570
Manganese (dissolved)	µg/L	140	160	190	270
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	13	12	1.5 U	12
Nickel (dissolved)	µg/L	1.7 J	1.6 J	1.5 U	1.9 J
Potassium	µg/L	11000	11000	10000	11000
Potassium (dissolved)	µg/L	9100	10000	11000	10000
Selenium	µg/L	1.4 J	1.2 J	0.89 U	1.3 U
Selenium (dissolved)	µg/L	0.89 U	0.96 J	0.92 J	1.2 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.066 J
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample Name:		**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**	**GW-38443-082218-JC-133**
Sample Date:		**08/21/2018**	**08/21/2018**	**08/22/2018**	**08/22/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	27000	27000	28000	32000
Sodium (dissolved)	µg/L	27000 J	27000 J	28000 J	32000 J
Thallium	µg/L	0.20 U	0.26 J	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.22 J	0.20 U	0.20 U
Vanadium	µg/L	12	9.2	0.82 U	11
Vanadium (dissolved)	µg/L	1.0 J	0.82 U	0.82 U	0.90 J
Zinc	µg/L	2200	790	1400	610
Zinc (dissolved)	µg/L	1600	560	1300	370
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	54000	52000	53000	59000
Nitrate (as N)	µg/L	59 J	150	35 J	130
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	69000	68000	76000	86000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**
Sample Date:		**08/23/2018**	**08/23/2018**	**08/23/2018**	**08/23/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.29 J	0.53 J
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.35 J	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
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Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**
Sample Date:		**08/23/2018**	**08/23/2018**	**08/23/2018**	**08/23/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.16 J	0.23 J
Toluene	µg/L	2.5	3.4	2.3	4.0
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	1.6	1.6	2.2	2.1
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**
Sample Date:		**08/23/2018**	**08/23/2018**	**08/23/2018**	**08/23/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**
Sample Date:		**08/23/2018**	**08/23/2018**	**08/23/2018**	**08/23/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**
Sample Date:		**08/23/2018**	**08/23/2018**	**08/23/2018**	**08/23/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	620	430	5100	2700
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	1.4 J	1.1 J	28	4.2 J
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	0.75 U
Barium	µg/L	110	110	190	120
Barium (dissolved)	µg/L	97	94	100	95
Beryllium	µg/L	0.31 U	0.31 U	0.37 J	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	150000	150000	180000	150000
Calcium (dissolved)	µg/L	130000	130000	130000	130000
Chromium	µg/L	4.4 U	3.8 U	12 U	6.9 U
Chromium (dissolved)	µg/L	2.9 U	2.89 U	2.89 U	3.1 U
Cobalt	µg/L	1.6	1.4	7.0	3.7
Cobalt (dissolved)	µg/L	0.87 J	0.87 J	1.5	1.8
Copper	µg/L	6.5	5.5	34	17
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	1800	1300	18000	6800
Iron (dissolved)	µg/L	100	89 J	390	87 J
Lead	µg/L	4.2	3.5	11	4.7
Lead (dissolved)	µg/L	0.88 J	0.71 J	0.45 U	0.45 U
Magnesium	µg/L	56000	53000	66000	54000
Magnesium (dissolved)	µg/L	48000 J	46000 J	47000 J	48000 J
Manganese	µg/L	160	140	790	310
Manganese (dissolved)	µg/L	99	96	230	240
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	8.6	7.1	27	9.9
Nickel (dissolved)	µg/L	3.8	3.7	6.5	4.6
Potassium	µg/L	9800	9300	11000	10000
Potassium (dissolved)	µg/L	9500	9300	9000	9200
Selenium	µg/L	18	18	19	20
Selenium (dissolved)	µg/L	18	18	18	19
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**
Sample Date:		**08/23/2018**	**08/23/2018**	**08/23/2018**	**08/23/2018**
Depth:		**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	49000	46000	56000	62000
Sodium (dissolved)	µg/L	48000 J	47000 J	59000 J	61000 J
Thallium	µg/L	0.20 U	0.20 U	0.28 J	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	2.4 J	2.0 J	13	7.0
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	1000	860	2400	6000
Zinc (dissolved)	µg/L	900	820	2000	6600
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	79000	79000	78000	77000
Nitrate (as N)	µg/L	2400	2400	2100	2000
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	65000	65000	73000	79000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**	**GW-38443-082718-JC-141**
Sample Date:		**08/24/2018**	**08/24/2018**	**08/24/2018**	**08/27/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.20 J
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	150 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.17 J
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.33 J	0.58 J	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	1.6	5.1	6.1	42
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.15 J	0.11 U	0.11 J
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.17 J	0.080 U	0.14 J
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**	**GW-38443-082718-JC-141**
Sample Date:		**08/24/2018**	**08/24/2018**	**08/24/2018**	**08/27/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	1.8	0.69 J	2.3	1.1
trans-1,2-Dichloroethene	µg/L	0.35 J	0.72 J	0.49 J	1.3
trans-1,3-Dichloropropene	µg/L	0.67 UJ	0.67 UJ	0.67 UJ	0.67 U
Trichloroethene	µg/L	5.4	24	17	5.4
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	1.4
Xylenes (total)	µg/L	0.15 U	0.17 J	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**	**GW-38443-082718-JC-141**
Sample Date:		**08/24/2018**	**08/24/2018**	**08/24/2018**	**08/27/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**	**GW-38443-082718-JC-141**
Sample Date:		**08/24/2018**	**08/24/2018**	**08/24/2018**	**08/27/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**	**GW-38443-082718-JC-141**
Sample Date:		**08/24/2018**	**08/24/2018**	**08/24/2018**	**08/27/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	100	180	1000	2200
Aluminum (dissolved)	µg/L	34 U	35 J	34 U	37 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	0.75 U	0.75 U	1.8 J	3.4 J
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	0.96 J
Barium	µg/L	98	82	94	110
Barium (dissolved)	µg/L	94	78	81	80
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.63 J
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	140000	140000	150000	180000
Calcium (dissolved)	µg/L	140000	120000	120000	110000
Chromium	µg/L	3.7 U	4.0 U	11 U	4.8
Chromium (dissolved)	µg/L	3.1 U	3.1 U	3.1 U	0.98 U
Cobalt	µg/L	1.4	0.95 J	1.6	2.2
Cobalt (dissolved)	µg/L	1.2	0.76 J	0.67 J	0.52 J
Copper	µg/L	1.7 U	1.7 U	5.9	8.5
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	3500	850	4900	6000
Iron (dissolved)	µg/L	3200	230	210	960 U
Lead	µg/L	0.46 J	1.4	2.1	3.1
Lead (dissolved)	µg/L	0.45 U	0.47 J	0.45 U	0.45 U
Magnesium	µg/L	47000	48000	52000	74000
Magnesium (dissolved)	µg/L	45000	40000	41000	43000
Manganese	µg/L	360	520	550	590
Manganese (dissolved)	µg/L	350	460	460	410
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	4.0	2.1	5.0	5.1
Nickel (dissolved)	µg/L	3.8	1.5 J	1.9 J	1.5 U
Potassium	µg/L	8400	7200	7200	6100
Potassium (dissolved)	µg/L	8500	7200	7000	5800
Selenium	µg/L	19	6.5	4.8 J	0.89 U
Selenium (dissolved)	µg/L	19	6.6	5.0	2.4 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**	**GW-38443-082718-JC-141**
Sample Date:		**08/24/2018**	**08/24/2018**	**08/24/2018**	**08/27/2018**
Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	66000	55000	50000	41000
Sodium (dissolved)	µg/L	66000	54000	52000	42000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	1.2 J	1.5 J	3.7 J	6.0
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.91 J	1.15 U
Zinc	µg/L	3000	780	2100	600
Zinc (dissolved)	µg/L	3200	740	1900	620
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	82000	87000	82000	74000
Nitrate (as N)	µg/L	2000	790	500	34 J
Nitrite (as N)	µg/L	14 U	23 J	14 J	14 U
Sulfate	µg/L	83000	87000	83000	89000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**
Sample Date:		**08/27/2018**	**08/28/2018**	**08/28/2018**	**08/29/2018**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	12 U	4.8 U	2.4 U	2.4 U
1,1,2,2-Tetrachloroethane	µg/L	6.5 U	2.6 U	1.3 U	1.3 U
1,1,2-Trichloroethane	µg/L	4.5 U	1.8 U	0.90 U	0.90 U
1,1-Dichloroethane	µg/L	8.5 U	3.4 U	1.7 U	1.7 U
1,1-Dichloroethene	µg/L	9.5 U	3.8 U	1.9 U	1.9 U
1,2,4-Trichlorobenzene	µg/L	13 U	5.2 U	2.6 U	2.6 U
1,2-Dichlorobenzene	µg/L	7.5 U	3.0 U	1.5 U	1.5 U
1,2-Dichloroethane	µg/L	11 U	4.2 U	2.1 U	2.1 U
1,2-Dichloropropane	µg/L	7.5 U	3.0 U	1.5 U	1.5 U
1,3-Dichlorobenzene	µg/L	7.5 U	3.0 U	1.5 U	1.5 U
1,4-Dichlorobenzene	µg/L	8.0 U	3.2 U	1.6 U	1.6 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	58 U	23 U	12 U	12 U
2-Hexanone	µg/L	27 U	11 U	5.4 U	5.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	21 U	8.4 U	4.2 U	4.2 U
Acetone	µg/L	270 U	110 U	54 U	54 U
Benzene	µg/L	6.5 U	2.6 U	1.3 U	1.3 U
Bromodichloromethane	µg/L	8.5 U	3.4 U	1.7 U	1.7 U
Bromoform	µg/L	38 U	15 U	7.6 U	7.6 U
Bromomethane (Methyl bromide)	µg/L	21 U	8.4 U	4.2 U	4.2 U
Carbon disulfide	µg/L	14 U	5.6 U	2.8 U	2.8 U
Carbon tetrachloride	µg/L	13 U	5.2 U	2.6 U	2.6 U
Chlorobenzene	µg/L	7.0 U	2.8 U	1.4 U	1.4 U
Chloroethane	µg/L	42 U	17 U	8.3 U	8.3 U
Chloroform (Trichloromethane)	µg/L	6.5 U	2.6 U	4.2 J	1.3 U
Chloromethane (Methyl chloride)	µg/L	10 U	4.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	µg/L	840	320	190	190
cis-1,3-Dichloropropene	µg/L	31 U	12 U	6.1 U	6.1 U
Cyclohexane	µg/L	12 U	4.8 U	2.4 U	2.4 U
Dibromochloromethane	µg/L	20 U	7.8 U	3.9 U	3.9 U
Dichlorodifluoromethane (CFC-12)	µg/L	18 U	7.0 U	3.5 U	3.5 U
Ethylbenzene	µg/L	5.5 U	2.2 U	1.1 U	1.1 U
Isopropyl benzene	µg/L	4.5 U	1.8 U	0.90 U	0.90 U
m&p-Xylenes	µg/L	4.0 U	1.6 U	0.80 U	0.80 U
Methyl acetate	µg/L	86 U	34 U	17 U	17 U
Methyl cyclohexane	µg/L	17 U	6.6 U	3.3 U	3.3 U
Methyl tert butyl ether (MTBE)	µg/L	3.5 U	1.4 U	0.70 U	0.70 U
Methylene chloride	µg/L	130 U	52 U	26 U	26 U
o-Xylene	µg/L	4.5 U	1.8 U	0.90 U	0.90 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**
Sample Date:		**08/27/2018**	**08/28/2018**	**08/28/2018**	**08/29/2018**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	5.0 U	2.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	7.5 U	3.0 U	1.5 U	1.5 U
Toluene	µg/L	7.0 U	2.8 U	2.3 J	3.0 J
trans-1,2-Dichloroethene	µg/L	9.5 U	3.8 U	1.9 U	1.9 U
trans-1,3-Dichloropropene	µg/L	34 U	13 U	6.7 U	6.7 U
Trichloroethene	µg/L	10.4 U	2.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	23 U	9.0 U	4.5 U	4.5 U
Trifluorotrichloroethane (CFC-113)	µg/L	21 U	8.2 U	4.1 U	4.1 U
Vinyl chloride	µg/L	73	56	44	53
Xylenes (total)	µg/L	7.5 U	3.0 U	1.5 U	1.5 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**
Sample Date:		**08/27/2018**	**08/28/2018**	**08/28/2018**	**08/29/2018**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**
Sample Date:		**08/27/2018**	**08/28/2018**	**08/28/2018**	**08/29/2018**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**
Sample Date:		**08/27/2018**	**08/28/2018**	**08/28/2018**	**08/29/2018**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	130 U	390	12000	96
Aluminum (dissolved)	µg/L	80 U	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	1.0 J	0.57 U
Antimony (dissolved)	µg/L	0.58 J	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	7.4	5.6	12	1.9 J
Arsenic (dissolved)	µg/L	7.8	5.3	1.9 J	1.8 J
Barium	µg/L	78	81	250	80
Barium (dissolved)	µg/L	72	72	67	75
Beryllium	µg/L	0.31 U	0.31 U	0.74 J	0.31 U
Beryllium (dissolved)	µg/L	0.94 J	0.49 J	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.57 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	96000	89000	330000	78000
Calcium (dissolved)	µg/L	95000	85000	74000	79000
Chromium	µg/L	0.98 U	2.0	45	2.7
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.43 J	0.59 J	11	0.56 J
Cobalt (dissolved)	µg/L	0.38 J	0.28 J	0.41 J	0.47 J
Copper	µg/L	1.7 U	1.9 J	42	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	3700	6000	32000	3800
Iron (dissolved)	µg/L	3100	2500	1100	1200
Lead	µg/L	0.45 U	0.70 J	18	0.58 J
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	35000	36000	120000	31000
Magnesium (dissolved)	µg/L	35000	31000	31000	32000
Manganese	µg/L	120	190	1000	170
Manganese (dissolved)	µg/L	110	150	160	150
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	2.0	29	1.5 J
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	7200	5500	8600	5800
Potassium (dissolved)	µg/L	7500	5800	5700	6200
Selenium	µg/L	1.64 U	0.89 U	2.3 U	1.64 U
Selenium (dissolved)	µg/L	2.1 U	2.0 U	2.0 U	1.8 U
Silver	µg/L	0.053 U	0.053 U	0.084 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
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July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**
Sample Date:		**08/27/2018**	**08/28/2018**	**08/28/2018**	**08/29/2018**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	60000	47000	34000	32000
Sodium (dissolved)	µg/L	61000	45000	35000	33000
Thallium	µg/L	0.20 U	0.20 U	0.35 J	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	1.15 U	1.5 U	33	2.2 U
Vanadium (dissolved)	µg/L	1.15 U	1.15 U	1.15 U	1.15 U
Zinc	µg/L	1300	1000	600	1700
Zinc (dissolved)	µg/L	1200	810	320	1700
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	96000	67000	57000	53000
Nitrate (as N)	µg/L	14 U	63 J	350	210
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	77000	82000	75000	76000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**08/29/2018**	**08/29/2018**	**08/30/2018**	**08/31/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	2.4 U	0.48 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	1.3 U	0.26 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.90 U	0.18 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	1.7 U	0.34 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	1.9 U	0.38 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	2.6 U	0.52 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	1.5 U	0.30 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	2.1 U	0.42 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	1.5 U	0.30 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	1.5 U	0.30 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	1.6 U	0.32 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	12 U	2.3 U	1.2 U	1.2 U
2-Hexanone	µg/L	5.4 U	1.1 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	4.2 U	0.84 U	0.42 U	0.42 U
Acetone	µg/L	54 U	11 U	5.4 U	5.4 U
Benzene	µg/L	1.3 U	0.26 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	1.7 U	0.34 U	0.71 J	0.17 U
Bromoform	µg/L	7.6 U	1.5 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	4.2 U	0.84 U	0.42 U	0.42 U
Carbon disulfide	µg/L	2.8 U	0.56 U	1.2	0.28 U
Carbon tetrachloride	µg/L	2.6 U	0.52 U	0.26 U	0.26 U
Chlorobenzene	µg/L	1.4 U	0.28 U	0.14 U	0.14 U
Chloroethane	µg/L	8.3 U	1.7 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	1.3 U	1.0 J	2.6	0.78 J
Chloromethane (Methyl chloride)	µg/L	2.0 U	0.40 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	120	38	3.4	0.97 J
cis-1,3-Dichloropropene	µg/L	6.1 U	1.2 U	0.61 U	0.61 U
Cyclohexane	µg/L	2.4 U	0.48 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	3.9 U	0.78 U	0.46 J	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	3.5 U	0.70 U	0.35 U	0.35 U
Ethylbenzene	µg/L	1.1 U	0.22 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.90 U	0.18 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.80 U	0.16 U	0.11 J	0.080 U
Methyl acetate	µg/L	17 U	3.4 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	3.3 U	0.66 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.70 U	0.14 U	0.070 U	0.070 U
Methylene chloride	µg/L	26 U	5.2 U	2.6 U	2.6 U
o-Xylene	µg/L	0.90 U	0.18 U	0.090 U	0.090 U

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**08/29/2018**	**08/29/2018**	**08/30/2018**	**08/31/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	1.0 U	0.20 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	1.5 U	0.30 U	0.15 U	0.15 U
Toluene	µg/L	1.4 U	1.3 J	0.86 J	0.71 J
trans-1,2-Dichloroethene	µg/L	1.9 U	0.38 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	6.7 U	1.3 U	0.67 U	0.67 U
Trichloroethene	µg/L	1.0 U	0.20 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	4.5 U	0.90 U	0.45 UJ	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	4.1 U	0.82 U	0.41 U	0.41 U
Vinyl chloride	µg/L	31	27	17	12
Xylenes (total)	µg/L	1.5 U	0.30 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Acetophenone	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**08/29/2018**	**08/29/2018**	**08/30/2018**	**08/31/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**08/29/2018**	**08/29/2018**	**08/30/2018**	**08/31/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**08/29/2018**	**08/29/2018**	**08/30/2018**	**08/31/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	1700	1100	15000	720
Aluminum (dissolved)	µg/L	34 U	34 U	180	34 U
Antimony	µg/L	0.57 U	0.57 U	1.6 J	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	4.2 J	3.1 J	12	1.5 J
Arsenic (dissolved)	µg/L	2.7 J	1.8 J	0.89 J	0.75 U
Barium	µg/L	100	120	270	130
Barium (dissolved)	µg/L	80	100	110	110
Beryllium	µg/L	0.31 U	0.31 U	0.85 J	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.48 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	95000	96000	300000	76000
Calcium (dissolved)	µg/L	80000	85000	75000	69000
Chromium	µg/L	13	14	74	12
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	1.9	1.6	16	1.6
Cobalt (dissolved)	µg/L	0.40 J	0.44 J	0.83 J	0.46 J
Copper	µg/L	7.9	6.4	58	5.0
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	7500	7200	46000	24000
Iron (dissolved)	µg/L	1900	1500	2500	2800
Lead	µg/L	3.4	2.1	26	1.6
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.47 J	0.45 U
Magnesium	µg/L	38000	38000	96000	40000
Magnesium (dissolved)	µg/L	33000	35000	36000	37000
Manganese	µg/L	300	320	1400	360
Manganese (dissolved)	µg/L	180	230	320	200
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	5.6	5.8	42	7.9
Nickel (dissolved)	µg/L	1.5 U	1.5 U	2.5	1.5 U
Potassium	µg/L	6700	7800	12000	9700
Potassium (dissolved)	µg/L	6700	8100	8800	9700
Selenium	µg/L	1.64 U	1.64 U	2.9 U	1.64 U
Selenium (dissolved)	µg/L	1.64 U	1.7 U	0.89 U	1.64 U
Silver	µg/L	0.053 U	0.053 U	0.11 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U

Table 2

Analytical Results Summary
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July-October 2018

Location ID:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample Name:		**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**08/29/2018**	**08/29/2018**	**08/30/2018**	**08/31/2018**
Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Parameters	**Unit**				
Sodium	µg/L	37000	39000	39000	36000
Sodium (dissolved)	µg/L	38000	42000	40000	35000
Thallium	µg/L	0.20 U	0.20 U	0.51 J	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	5.6 U	4.6 U	39	2.8 U
Vanadium (dissolved)	µg/L	1.15 U	1.15 U	1.30 U	0.82 U
Zinc	µg/L	980	1800	670	750
Zinc (dissolved)	µg/L	1000	1900	180	560
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	52000	54000	59000	56000
Nitrate (as N)	µg/L	94 J	75 J	330	150
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	77000	78000	75000	79000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
BTEX - Benzene, Toluene, Ethylbenzene, and Xylene
PCBs - Polychlorinated Biphenyls
-- Not applicable

Table 3

Analytical Methods
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14 7 for unpreserved
Fumigants	SW-846 8011	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Water	7	40
Herbicides	SW-846 8151	Water	7	40
Total & Dissolved Metals	SW-846 6020	Water	-	180
Total & Dissolved Mercury	SW-846 7470A	Water	-	28
Cyanide	SW-846 9012B	Water	-	14
Anions (Chloride, Sulfate, Nitrate, Nitrite)	EPA 300.0	Water	-	28 48 hours for Nitrate & Nitrite

Notes:

- - Not applicable
EPA - "Methods for Chemical Analysis of Water and Wastes," EPA-600/4-79-020, March 1983 (with all subsequent revisions).
SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisic

Table 4

Qualified Sample Results Due to Holding Time Exceedance
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
VOCs	GW-38443-080218-JC-019	12	7	All Analytes	J/UJ	µg/L
VOCs	GW-38443-090518-JC-152	8	7	All Analytes	J/UJ	µg/L
VOCs	GW-38443-090518-JC-153	8	7	All Analytes	J/UJ	µg/L
VOCs	GW-38443-100418-JC-195	12	7	All Analytes	J/UJ	µg/L
VOCs	GW-38443-100518-JC-197	12	7	All Analytes	J/UJ	µg/L
VOCs	GW-38443-091718-JC-171	10	7	All Analytes	J/UJ	µg/L
VOCs	GW-38443-091818-JC-172	13	7	All Analytes	J/UJ	µg/L
Pesticides	GW-38443-091918-JC-175	9	7	All Analytes	J/UJ	µg/L

Notes:

J - Estimated concentration
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromoform	08/09/2018	30	GW-38443-073118-JC-018	0.76 UJ	µg/L
VOCs	1,1,1-Trichloroethane	08/14/2018	26	GW-38443-080218-JC-019	0.24 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	08/14/2018	72	GW-38443-080218-JC-019	0.42 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	08/24/2018	27	GW-38443-081518-JC-120	0.26 UJ	µg/L
VOCs	2-Hexanone	08/31/2018	45	GW-38443-082018-JC-127	11 J	µg/L
VOCs	cis-1,3-Dichloropropene	08/31/2018	27	GW-38443-082018-JC-127	12 UJ	µg/L
VOCs	trans-1,3-Dichloropropene	08/31/2018	28	GW-38443-082018-JC-127	13 UJ	µg/L
VOCs	trans-1,3-Dichloropropene	09/01/2018	26	GW-38443-082218-JC-132	0.67 UJ	µg/L
VOCs				GW-38443-082218-JC-133	0.67 UJ	µg/L
VOCs	2-Hexanone	09/06/2018	44	GW-38443-082418-JC-138	0.54 UJ	µg/L
				GW-38443-082418-JC-139	0.54 UJ	µg/L
				GW-38443-082418-JC-140	0.54 UJ	µg/L
VOCs	trans-1,3-Dichloropropene	09/06/2018	28	GW-38443-082418-JC-138	0.67 UJ	µg/L
				GW-38443-082418-JC-139	0.67 UJ	µg/L
				GW-38443-082418-JC-140	0.67 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	09/04/2018	29	GW-38443-082318-JC-134	0.26 UJ	µg/L
				GW-38443-082318-JC-135	0.26 UJ	µg/L
				GW-38443-082318-JC-136	0.26 UJ	µg/L
				GW-38443-082318-JC-137	0.26 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	09/12/2018	51	GW-38443-083018-JC-149	0.45 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Dichlorodifluoromethane (CFC-12)	09/13/2018	43	GW-38443-090518-JC-152	0.35 UJ	µg/L
				GW-38443-090518-JC-153	0.35 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	09/13/2018	53	GW-38443-090518-JC-152	0.45 UJ	µg/L
				GW-38443-090518-JC-153	0.45 UJ	µg/L
VOCs	Carbon tetrachloride	09/14/2018	26	GW-38443-090718-JC-155	0.26 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	09/14/2018	43	GW-38443-090718-JC-155	0.45 UJ	µg/L
VOCs	Carbon tetrachloride	09/17/2018	29	GW-38443-090718-JC-156	0.26 UJ	µg/L
				GW-38443-090718-JC-157	0.26 UJ	µg/L
				GW-38443-091018-JC-158	0.26 UJ	µg/L
VOCs	Trichlorofluoromethane (CFC-11)	09/17/2018	50	GW-38443-090718-JC-156	0.45 UJ	µg/L
				GW-38443-090718-JC-157	0.45 UJ	µg/L
				GW-38443-091018-JC-158	0.45 UJ	µg/L
VOCs	Carbon tetrachloride	09/26/2018	31	GW-38443-091418-JC-169	0.26 UJ	µg/L
				GW-38443-091418-JC-170	0.26 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	10/09/2018	35	GW-38443-092718-JC-186	0.42 UJ	µg/L
				GW-38443-092718-JC-187	0.42 UJ	µg/L
				GW-38443-092718-JC-188	0.42 UJ	µg/L
				GW-38443-092718-JC-189	0.42 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	10/06/2018	28	GW-38443-092618-JC-184	0.26 UJ	µg/L
				GW-38443-092618-JC-185	0.26 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	10/16/2018	27	GW-38443-100418-JC-194	0.26 UJ	µg/L
				GW-38443-100418-JC-195	0.26 UJ	µg/L
				GW-38443-100418-JC-196	0.26 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	1,2-Dichloroethane	10/16/2018	27	GW-38443-100418-JC-194	0.21 UJ	µg/L
				GW-38443-100418-JC-195	0.21 UJ	µg/L
				GW-38443-100418-JC-196	0.21 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	10/17/2018	30	GW-38443-100818-JC-201	0.26 UJ	µg/L
				GW-38443-100818-JC-202	0.26 UJ	µg/L
				GW-38443-100818-JC-203	0.26 UJ	µg/L
				GW-38443-100818-JC-204	0.26 UJ	µg/L
VOCs	1,2-Dichloroethane	10/17/2018	29	GW-38443-100818-JC-201	0.21 UJ	µg/L
				GW-38443-100818-JC-202	0.21 UJ	µg/L
				GW-38443-100818-JC-203	0.21 UJ	µg/L
				GW-38443-100818-JC-204	0.21 UJ	µg/L
VOCs	4-Methyl-2-pentanone	10/17/2018	44	GW-38443-100818-JC-201	0.42 UJ	µg/L
				GW-38443-100818-JC-202	0.42 UJ	µg/L
				GW-38443-100818-JC-203	0.42 UJ	µg/L
				GW-38443-100818-JC-204	0.42 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	10/19/2018	37	GW-38443-101018-JC-207	0.26 UJ	µg/L
				GW-38443-101018-JC-208	0.26 UJ	µg/L
				GW-38443-101018-JC-209	0.26 UJ	µg/L
VOCs	1,2-Dichloropropane	10/19/2018	28	GW-38443-101018-JC-207	0.15 UJ	µg/L
				GW-38443-101018-JC-208	0.15 UJ	µg/L
				GW-38443-101018-JC-209	0.15 UJ	µg/L
VOCs	Bromoform	10/18/2018	26	GW-38443-100918-JC-205	0.76 UJ	µg/L
VOCs	Bromomethane (Methyl bromide)	09/27/2018	30	GW-38443-091718-JC-171	0.42 UJ	µg/L
VOCs	cis-1,3-Dichloropropene	10/02/2018	26	GW-38443-091918-JC-173	0.61 UJ	µg/L
				GW-38443-091918-JC-175	0.61 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	trans-1,3-Dichloropropene	10/02/2018	28	GW-38443-091918-JC-173	0.67 UJ	µg/L
				GW-38443-091918-JC-175	0.67 UJ	µg/L
VOCs	1,1,2,2-Tetrachloroethane	09/27/2018	27	GW-38443-091918-JC-174	0.13 UJ	µg/L
VOCs	Bromoform	09/27/2018	28	GW-38443-091918-JC-174	0.76 UJ	µg/L
Herbicides	2,4,5-T	08/03/2018	23	GW-38443-073118-JC-018	0.57 UJ	µg/L

Notes:

-- - Not applicable
%D - Percent difference
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds
J - Estimated concentration

Table 6

Qualified Sample Data Due to Outlying Calibration Criteria
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	Calibration ID (CCV)	% Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Result	Units
Metals	Beryllium (dissolved)	09/21/2018	CCV	114	90 - 110	GW-38443-082718-JC-141	0.63 J	µg/L
						GW-38443-082718-JC-143	0.94 J	µg/L
						GW-38443-082818-JC-144	0.49 J	µg/L
Metals	Beryllium	09/21/2018	CCV	114	90 - 110	GW-38443-082818-JC-145	0.74 J	µg/L
Metals	Beryllium	09/27/2018	CCV	117	90 - 110	GW-38443-090718-JC-155	0.54 J	µg/L
						GW-38443-090718-JC-156	0.35 J	µg/L
Metals	Beryllium (dissolved)	09/27/2018	CCV	117	90 - 110	GW-38443-090718-JC-155	0.35 J	µg/L
Metals	Beryllium	10/09/2018	CCV	137	90 - 110	GW-38443-092718-JC-188	0.50 J	µg/L

Notes:

CCV - Continuing calibration verification
J - Estimated concentration

Table 7

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
VOCs	Trichloroethene	09/10/2018	10.4 J	GW-38443-082718-JC-143	8.1 J	10.4 U	µg/L
VOCs	Benzene	10/02/2018	0.21	GW-38443-091918-JC-175	0.21 J	0.21 U	µg/L
VOCs	Tetrachloroethene	10/19/2018	0.23	GW-38443-100918-JC-205	0.15 J	0.23 U	µg/L
Metals	Chromium	08/22/2018	1.7 J	GW-38443-081618-JC-121	3.1	3.1 U	µg/L
				GW-38443-081618-JC-122	1.9 J	1.9 U	µg/L
				GW-38443-081618-JC-123	2.0	2.0 U	µg/L
				GW-38443-081718-JC-124	3.6	3.6 U	µg/L
				GW-38443-081718-JC-125	3.9	3.9 U	µg/L
				GW-38443-081718-JC-126	3.7	3.7 U	µg/L
				GW-38443-081518-JC-120	1.9 J	1.9 U	µg/L
Metals	Chromium (dissolved)	08/22/2018	1.7 J	GW-38443-081618-JC-121	2.0	2.0 U	µg/L
				GW-38443-081618-JC-122	2.0	2.0 U	µg/L
				GW-38443-081618-JC-123	1.7 J	1.7 U	µg/L
				GW-38443-081718-JC-124	1.8 J	1.8 U	µg/L
				GW-38443-081718-JC-125	1.8 J	1.8 U	µg/L
				GW-38443-081718-JC-126	1.9 J	1.9 U	µg/L
				GW-38443-081518-JC-120	2.0	2.0 U	µg/L
Metals	Chromium	08/31/2018	2.89	GW-38443-082018-JC-127	5.2	5.2 U	µg/L
				GW-38443-082218-JC-132	3.0	3.0 U	µg/L
				GW-38443-082318-JC-134	4.4	4.4 U	µg/L
				GW-38443-082318-JC-135	3.8	3.8 U	µg/L
				GW-38443-082318-JC-136	12	12 U	µg/L
				GW-38443-082318-JC-137	6.9	6.9 U	µg/L
				GW-38443-082418-JC-138	3.7	3.7 U	µg/L
				GW-38443-082418-JC-139	4.0	4.0 U	µg/L
				GW-38443-082418-JC-140	11	11 U	µg/L

Table 7

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Metals	Chromium (dissolved)	08/31/2018	2.89	GW-38443-082018-JC-127	2.8	2.89 U	ug/L
				GW-38443-082118-JC-130	3.4	3.4 U	ug/L
				GW-38443-082118-JC-131	2.7	2.89 U	ug/L
				GW-38443-082218-JC-132	2.7	2.89 U	ug/L
				GW-38443-082218-JC-133	2.7	2.89 U	ug/L
				GW-38443-082318-JC-134	2.9	2.9 U	ug/L
				GW-38443-082318-JC-135	2.6	2.89 U	ug/L
				GW-38443-082318-JC-136	2.7	2.89 U	ug/L
				GW-38443-082318-JC-137	3.1	3.1 U	ug/L
				GW-38443-082418-JC-138	3.1	3.1 U	ug/L
				GW-38443-082418-JC-139	3.1	3.1 U	ug/L
				GW-38443-082418-JC-140	3.1	3.1 U	ug/L
Metals	Selenium	09/21/2018	1.64 J	GW-38443-082718-JC-143	0.90 J	1.64 U	µg/L
				GW-38443-082818-JC-145	2.3 J	2.3 U	µg/L
				GW-38443-082918-JC-146	1.4 J	1.64 U	µg/L
				GW-38443-082918-JC-147	1.3 J	1.64 U	µg/L
				GW-38443-082918-JC-148	1.4 J	1.64 U	µg/L
				GW-38443-083018-JC-149	2.9 J	2.9 U	µg/L
				GW-38443-083118-JC-150	1.3 J	1.64 U	µg/L
Metals	Selenium (dissolved)	09/21/2018	1.64 J	GW-38443-083118-JC-150	0.90 J	1.64 U	µg/L
				GW-38443-082918-JC-148	1.7 J	1.7 U	µg/L
				GW-38443-082918-JC-147	1.6 J	1.64 U	µg/L
				GW-38443-082918-JC-146	1.8 J	1.8 U	µg/L
				GW-38443-082818-JC-145	2.0 J	2.0 U	µg/L
				GW-38443-082718-JC-141	2.4 J	2.4 U	µg/L
				GW-38443-082718-JC-143	2.1 J	2.1 U	µg/L
				GW-38443-082818-JC-144	2.0 J	2.0 U	µg/L

Table 7

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Metals	Vanadium	09/21/2018	1.15 J	GW-38443-082718-JC-143	1.1 J	1.15 U	µg/L
				GW-38443-082818-JC-144	1.5 J	1.5 U	µg/L
				GW-38443-082918-JC-146	2.2 J	2.2 U	µg/L
				GW-38443-082918-JC-147	5.6	5.6 U	µg/L
				GW-38443-082918-JC-148	4.6 J	4.6 U	µg/L
				GW-38443-083118-JC-150	2.8 J	2.8 U	µg/L
Metals	Vanadium (dissolved)	09/21/2018	1.15 J	GW-38443-082918-JC-148	1.0 J	1.15 U	µg/L
				GW-38443-082918-JC-147	0.88 J	1.15 U	µg/L
				GW-38443-082918-JC-146	1.1 J	1.15 U	µg/L
				GW-38443-082718-JC-141	1.1 J	1.15 U	µg/L
				GW-38443-082718-JC-143	0.98 J	1.15 U	µg/L
				GW-38443-082818-JC-144	1.1 J	1.15 U	µg/L
				GW-38443-082818-JC-145	0.93 J	1.15 U	µg/L
				GW-38443-083018-JC-149	1.3 J	1.3 U	µg/L
Metals	Iron (dissolved)	10/03/2018	119	GW-38443-090418-JC-151	140	140 U	ug/L
				GW-38443-090518-JC-152	430	430 U	ug/L
Metals	Beryllium	10/02/2018	0.611 J	GW-38443-091318-JC-167	0.74 J	0.74 U	µg/L
				GW-38443-091418-JC-170	0.36 J	0.611 U	µg/L
Metals	Mercury	09/25/2018	0.133 J	GW-38443-091718-JC-171	0.32	0.32 U	µg/L
				GW-38443-091818-JC-172	0.18 J	0.18 U	µg/L
Metals	Cadmium	10/16/2018	0.285 J	GW-38443-100818-JC-202	0.27 J	0.285 U	µg/L
				GW-38443-100918-JC-205	1.3	1.3 U	µg/L
				GW-38443-100918-JC-206	0.34 J	0.34 U	µg/L
				GW-38443-101018-JC-208	0.27 J	0.285 U	µg/L
				GW-38443-101018-JC-209	0.30 J	0.30 U	µg/L

Table 7

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Analysis Date (mm/dd/yyyy)	Blank Result *	Sample ID	Original Result	Qualified Result	Units
Metals	Cadmium (dissolved)	10/16/2018	0.285 J	GW-38443-100918-JC-205	0.30 J	0.30 U	µg/L
				GW-38443-100818-JC-201	0.34 J	0.34 U	µg/L
Metals	Copper	10/16/2018	2.97	GW-38443-100818-JC-201	9.4	9.4 U	µg/L
				GW-38443-101018-JC-207	8.0	8.0 U	µg/L
Metals	Copper (dissolved)	10/16/2018	2.97	GW-38443-101018-JC-207	2.2	2.97 U	µg/L
				GW-38443-100818-JC-201	2.7	2.97 U	µg/L
				GW-38443-100818-JC-202	3.3	3.3 U	µg/L
				GW-38443-100818-JC-203	4.2	4.2 U	µg/L
				GW-38443-100818-JC-204	3.3	3.3 U	µg/L
				GW-38443-100918-JC-206	2.3	2.97 U	µg/L
				GW-38443-101018-JC-208	6.5	6.5 U	µg/L
				GW-38443-101018-JC-209	5.3	5.3 U	µg/L
Metals	Chromium	08/10/2018	1.54 J	GW-38443-073118-JC-018	2.1	2.1 U	µg/L
	Chromium (dissolved)				1.5 J	1.54 U	µg/L

Notes:

* - Blank result adjusted for sample factors
J - Estimated concentration
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 8

Qualified Sample Results Due to Analyte Concentrations in the Instrument Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	Blank ID	Analysis Date (mm/dd/yyyy)	Blank Result	Sample ID	Original Result	Qualified Result	Units
Metals	Beryllium	CCB	08/31/2018	0.386 J	GW-38443-082018-JC-127	0.94 J	0.94 U	µg/L
					GW-38443-082118-JC-130	0.59 J	0.59 U	µg/L
					GW-38443-082118-JC-131	0.65 J	0.65 U	µg/L
Metals	Beryllium (dissolved)	CCB	08/31/2018	0.386 J	GW-38443-082018-JC-127	0.61 J	0.61 U	µg/L
					GW-38443-082118-JC-130	0.32 J	0.386 U	µg/L
					GW-38443-082118-JC-131	0.93 J	0.93 U	µg/L
Metals	Selenium	CCB	08/31/2018	0.901 J	GW-38443-082218-JC-133	1.3 J	1.3 U	µg/L
Metals	Selenium (dissolved)	CCB	08/31/2018	0.901 J	GW-38443-082218-JC-133	1.2 J	1.2 U	µg/L

Notes:

CCB - Continuing Calibration Blank
J - Estimated concentration
U - Not detected at the associated reporting limit

Table 9

Qualified Sample Data Due to Outlying of Surrogate Recoveries
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
VOCs	GW-38443-091018-JC-158	Dibromofluoromethane	131	69-124	Chloroform (Trichloromethane)	0.83 J	µg/L
					Tetrachloroethene	0.22 J	µg/L
					Toluene	0.45 J	µg/L
					Trichloroethene	0.20 J	µg/L
VOCs	GW-38443-091418-JC-169	Dibromofluoromethane	129	69-124	Chloroform (Trichloromethane)	1.0 J	µg/L
					cis-1,2-Dichloroethene	4.2 J	µg/L
					Toluene	0.25 J	µg/L
VOCs	GW-38443-091418-JC-170	Dibromofluoromethane	127	69-124	Bromodichloromethane	0.30 J	µg/L
					Chloroform (Trichloromethane)	1.1 J	µg/L
					cis-1,2-Dichloroethene	0.35 J	µg/L
					Toluene	5.0 J	µg/L

Notes:

J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 10

Qualified Sample Results Due to Outlying Laboratory Control Sample Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	LCS Date (mm/dd/yyyy)	LCS % Recovery	Control Limits % Recovery	Associated Sample ID	Qualified Results	Units
VOCs	Chloromethane (Methyl chloride)	09/13/2018	54	59-124	GW-38443-090518-JC-152	0.20 UJ	µg/L
					GW-38443-090518-JC-153	0.20 UJ	µg/L
VOCs	Chloroform (Trichloromethane)	10/10/2018	122	80-120	GW-38443-092718-JC-187	0.13 J	µg/L
					GW-38443-092718-JC-189	0.20 J	µg/L
VOCs	Benzene	10/17/2018	126	80-123	GW-38443-100818-JC-204	0.33 J	µg/L

Notes:

J - Estimated concentration
LCS - Laboratory Control Sample
VOCs - Volatile Organic Compounds
UJ - Not detected; associated reporting limit is estimated

Table 11

Qualified Sample Results Due to Outlying MS/MSD Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
Metals	GW-38443-082018-JC-127	Sodium (dissolved)	71	72	0	75 - 125	20	56000 J	µg/L
	GW-38443-082118-JC-130							27000 J	µg/L
	GW-38443-082118-JC-131							27000 J	µg/L
	GW-38443-082218-JC-132							28000 J	µg/L
	GW-38443-082218-JC-133							32000 J	µg/L
	GW-38443-082318-JC-134							48000 J	µg/L
	GW-38443-082318-JC-135							47000 J	µg/L
	GW-38443-082318-JC-136							59000 J	µg/L
	GW-38443-082318-JC-137							61000 J	µg/L
Metals	GW-38443-082018-JC-127	Magnesium (dissolved)	68	68	0	75 - 125	20	43000 J	µg/L
	GW-38443-082118-JC-130							31000 J	µg/L
	GW-38443-082118-JC-131							31000 J	µg/L
	GW-38443-082218-JC-132							34000 J	µg/L
	GW-38443-082218-JC-133							39000 J	µg/L
	GW-38443-082318-JC-134							48000 J	µg/L
	GW-38443-082318-JC-135							46000 J	µg/L
	GW-38443-082318-JC-136							47000 J	µg/L
	GW-38443-082318-JC-137							48000 J	µg/L
Metals	GW-38443-101118-JC-211	Aluminum	131	126	2	75 - 125	20	4600 J	µg/L
	GW-38443-101118-JC-212							15000 J	µg/L
	GW-38443-101118-JC-213							23000 J	µg/L

Notes:

MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference
J - Estimated concentration

Table 12

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	08/24/2018	Acetone	150	GW-38443-082418-JC-139	15	150 U	µg/L
VOCs	09/21/2018	Trichloroethene	0.16 J	GW-38443-092118-JC-180	0.31 J	0.31 U	µg/L
VOCs	10/02/2018	m&p-Xylenes	0.13 J	GW-38443-100218-JC-191	0.21 J	0.21 U	µg/L
				GW-38443-100218-JC-192	0.20 J	0.20 U	µg/L
VOCs	10/04/2018	Toluene	0.23 J	GW-38443-100418-JC-194	0.35 J	0.35 U	µg/L
				GW-38443-100418-JC-195	0.50 J	0.50 U	µg/L
				GW-38443-100418-JC-196	0.45 J	0.45 U	µg/L
VOCs	10/09/2018	Toluene	0.17 J	GW-38443-100918-JC-205	0.25 J	0.25 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 13

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	RB-38443-092018-JC-178	09/20/2018	Tetrachloroethene	2.5	GW-38443-092018-JC-176	0.46 J	2.5 U	µg/L
					GW-38443-092018-JC-177	0.31 J	2.5 U	µg/L
					GW-38443-092018-JC-179	0.58 J	2.5 U	µg/L
Metals	RB-38443-082718-JC-142	08/27/2018	Aluminum	100	GW-38443-082718-JC-143	130	130 U	µg/L
Metals	RB-38443-082718-JC-142	08/27/2018	Aluminum (dissolved)	100	GW-38443-082718-JC-143	80	100 U	µg/L
					GW-38443-082718-JC-141	37 J	100 U	µg/L
Metals	RB-38443-082718-JC-142	08/27/2018	Iron (dissolved)	250	GW-38443-082718-JC-141	960	960 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Aluminum	270	GW-38443-090718-JC-155	940	940 U	µg/L
					GW-38443-090718-JC-156	68	100 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Aluminum (dissolved)	270	GW-38443-090718-JC-155	48 J	100 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Cobalt	0.2 J	GW-38443-090718-JC-155	0.89 J	0.89 U	µg/L
					GW-38443-090718-JC-156	0.94 J	0.94 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Cobalt (dissolved)	0.2 J	GW-38443-090718-JC-157	0.96 J	0.96 U	µg/L
					GW-38443-090718-JC-156	0.76 J	0.76 U	µg/L
					GW-38443-090718-JC-155	0.35 J	0.35 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Copper	3.3	GW-38443-090718-JC-157	8.2	8.2 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Copper (dissolved)	3.3	GW-38443-090718-JC-156	3.7	3.7 U	µg/L
					GW-38443-090718-JC-155	2.8	3.3 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Iron	400	GW-38443-090718-JC-155	1500	1500 U	µg/L
					GW-38443-090718-JC-156	190	400 U	µg/L

Table 13

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	RB-38443-090718-JC-154	09/07/2018	Iron (dissolved)	400	GW-38443-090718-JC-157	64 J	400 U	µg/L
					GW-38443-090718-JC-155	97 J	400 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Manganese (dissolved)	14	GW-38443-090718-JC-155	49	49 U	µg/L
Metals	RB-38443-090718-JC-154	09/07/2018	Lead	0.57	GW-38443-090718-JC-156	1.3	1.3 U	µg/L
Metals	RB-38443-092018-JC-178	09/20/2018	Aluminum	73	GW-38443-092018-JC-177	80	80 U	µg/L
			Copper	54	GW-38443-092018-JC-179	4.2	54 U	µg/L
			Lead	1.4	GW-38443-092018-JC-179	2.5	2.5 U	µg/L
Metals	RB-38443-100218-JC-190	10/02/2018	Beryllium	0.7	GW-38443-100218-JC-192	0.37 J	0.70 U	µg/L
Metals	RB-38443-100218-JC-190	10/02/2018	Zinc	73	GW-38443-100218-JC-192	310	310 U	µg/L
Metals	RB-38443-100218-JC-190	10/02/2018	Zinc (dissolved)	73	GW-38443-100218-JC-192	190	190 U	µg/L
Metals	EB-38443-100518-JC-198	10/05/2018	Chromium (dissolved)	1.0 J	GW-38443-100518-JC-197	4.3	4.3 U	µg/L
					GW-38443-100518-JC-200	1.1 J	1.1 U	µg/L
Metals	EB-38443-100518-JC-198	10/05/2018	Aluminum (dissolved)	380	GW-38443-100518-JC-199	160	380 U	µg/L
					GW-38443-100518-JC-200	670	670 U	µg/L
Metals	RB-38443-100218-JC-190	10/02/2018	Cobalt (dissolved)	0.21	GW-38443-100518-JC-199	0.51 J	0.51 U	µg/L
					GW-38443-100518-JC-200	0.85 J	0.85 U	µg/L
Metals	EB-38443-100518-JC-198	10/05/2018	Iron (dissolved)	510	GW-38443-100518-JC-199	390	510 U	ug/L
					GW-38443-100518-JC-200	1400	1400 U	ug/L
Metals	EB-38443-101118-JC-210	10/11/2018	Aluminum (dissolved)	140	GW-38443-101118-JC-211	210	210 U	µg/L
					GW-38443-101118-JC-212	310	310 U	µg/L

Table 13

Qualified Sample Data Due to Analyte Concentrations in the Rinse Blanks
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Rinse Blank ID	Blank Date (dd/mm/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
Metals	EB-38443-101118-JC-210	10/11/2018	Cadmium	0.29 J	GW-38443-101118-JC-211	0.31 J	0.31 U	µg/L
					GW-38443-101118-JC-212	0.71 J	0.71 U	µg/L
					GW-38443-101118-JC-213	0.71 J	0.71 U	µg/L
Metals	EB-38443-101118-JC-210	10/11/2018	Cadmium (dissolved)	0.29 J	GW-38443-101118-JC-212	0.29 J	0.29 U	µg/L
Metals	EB-38443-101118-JC-210	10/11/2018	Cobalt (dissolved)	0.27 J	GW-38443-101118-JC-211	0.31 J	0.31 U	µg/L
					GW-38443-101118-JC-212	0.68 J	0.68 U	µg/L
					GW-38443-101118-JC-213	0.31 J	0.31 U	µg/L
Metals	EB-38443-101118-JC-210	10/11/2018	Copper (dissolved)	1.9	GW-38443-101118-JC-212	3.5	3.5 U	µg/L
Metals	EB-38443-101118-JC-210	10/11/2018	Lead (dissolved)	0.45 J	GW-38443-101118-JC-211	0.61 J	0.61 U	µg/L
					GW-38443-101118-JC-212	0.65 J	0.65 U	µg/L
Metals	EB-38443-101118-JC-210	10/11/2018	Thallium	0.22 J	GW-38443-101118-JC-212	0.55 J	0.55 U	µg/L
					GW-38443-101118-JC-211	0.22 J	0.22 U	µg/L
					GW-38443-101118-JC-213	0.51 J	0.51 U	µg/L
Metals	EB-38443-101118-JC-210	10/11/2018	Thallium (dissolved)	0.22 J	GW-38443-101118-JC-212	0.23 J	0.23 U	µg/L
Metals	EB-38443-101118-JC-210	10/11/2018	Nitrate (as N)	15	GW-38443-101118-JC-213	37 J	37 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
VOCs - Volatile Organic Compounds

Table 14

Qualified Sample Data Due to Variability in Field Duplicate Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Analyte	RPD	Diff	RL	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Metals	Aluminum (dissolved)	139	156	50	GW-38443-090518-JC-152	190 J	GW-38443-090518-JC-153	34 UJ	µg/L
Metals	Copper (dissolved)	87	2.6	2.0	GW-38443-090518-JC-152	4.3 J	GW-38443-090518-JC-153	1.7 UJ	µg/L

Notes:

Diff - Difference (<RL for water)
J - Estimated concentration
RL - Reporting Limit
RPD - Relative Percent Difference
UJ - Not detected; associated reporting limit is estimated

Table 15

Qualified Sample Data Due to Discrepancies Between Total and Dissolved Results
VAS Groundwater Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
July - October 2018

Parameter	Sample ID	Analyte	%D	Criteria (percent)	Qualified Total Result	Qualified Dissolved Result	Units
Metals	GW-38443-081518-JC-120	Zinc	21.4	20	1100 J	1400 J	µg/L
	GW-38443-091018-JC-159	Barium	28.1		320 J	230 J	µg/L
	GW-38443-091018-JC-158	Potassium	22.8		7900 J	9700 J	µg/L
	GW-38443-091018-JC-158	Sodium	42.9		140000 J	200000 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration

Memorandum

January 17, 2019

To:	Julian Hayward	Ref. No.:	038443-360
From:	Angela Bown/cs/47-NF	Tel:	513-942-4750
cc:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

1. Introduction

This document details a validation of analytical results for water samples collected in support of the Monitoring Wells Sampling Program at the Moraine, Ohio site during October 2018. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. All samples were prepared and analyzed within the required holding times.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Fumigants and Herbicides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the coefficient of determination (R^2) is 0.990 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental General Chemistry	Cyanide	85 - 115%
Instrumental General Chemistry	Anions	90 - 110%

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 4.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15 percent. To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

Most method blank results were non-detect. Sample results that were associated with detects in the method blanks were either non-detect or were significantly greater than the blank. Qualification was not necessary on this basis.

8.2 Inorganic Analyses

All ICBs, CCBs, and method blank results were non-detect indicating that laboratory contamination was not a factor for this investigation.

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. Due to dilutions equal to or greater than 5 times that were necessary to successfully analyze the samples, numerous surrogate recoveries in investigative samples analyzed for pesticides were not assessed. All remaining surrogate recoveries were within the laboratory criteria.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. All LCS recoveries and RPDs were within the laboratory control limits demonstrating acceptable analytical accuracy and precision.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data was performed based on the acceptable recovery of the companion spike and the acceptable RPD.

Due to dilutions that were necessary to successfully analyze the samples, some MS/MSD recoveries were not assessed.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision with the exception of one SVOC analysis. Table 5 presents the sample results that were rejected or qualified due to outlying MS/MSD recoveries.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of five trip blank samples, one equipment blank sample, and one field duplicate sample set.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, five trip blanks were submitted to the laboratory for VOC analysis. Target analytes were detected in the trip blank samples. Any associated sample results that were non-detect were not impacted. Table 6 presents the

samples that were qualified due to analyte concentrations in the trip blanks. All remaining results were non-detect for the compounds of interest.

15.2 Equipment Blank Sample Analysis

To assess field decontamination procedures, ambient conditions at the site, and cleanliness of sample containers, one field blank was submitted for analysis, as identified in Table 1. All results were non-detect for the analytes of interest or did not impact the associated sample results.

15.3 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, one field duplicate sample set was collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

Most field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision. Table 7 presents the sample results that were qualified due to variability in the field duplicate results.

16. Total versus Dissolved Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20%D). The dissolved copper result for sample GW-38443-101818-AS-225 was greater than the total result and was in exceedance of the method variability. The associated results were qualified as estimated in Table 8.

17. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

18. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide, PCB, and herbicide analyses were performed using dual column analyses. All the results showed good correlation between the two columns (<40 RPD).

19. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific exception and qualifications noted herein.

Table 1

Sample Collection and Analysis Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

					Analysis/Parameters										
Sample Identification	**Location**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**SVOCs**	**Fumigants**	**Pesticides**	**PCBs**	**Herbicides**	**Total & Dissolved Metals**	**Total & Dissolved Mercury**	**Cyanide**	**Anions**	**Comments**
GW-38443-101618-AS-214	MW-224B	Water	10/16/2018	11:20:00	X	X	X	X	X	X	X	X	X	X	
GW-38443-101618-AS-215	MW-224A	Water	10/16/2018	14:00:00	X	X	X	X	X	X	X	X	X	X	
GW-38443-101618-AS-216	MW-234	Water	10/16/2018	15:30:00	X	X	X	X	X	X	X	X	X	X	
TB-38443-101618-JC-039	-	Water	10/16/2018	-	X		X								Trip Blank
GW-38443-101718-JC-217	MW-217	Water	10/17/2018	10:30:00	X	X	X	X	X	X	X	X	X	X	MS/MSD
GW-38443-101718-AS-218	MW-209	Water	10/17/2018	10:25:00	X	X	X	X	X	X	X	X	X	X	
GW-38443-101718-AS-219	MW-209	Water	10/17/2018	10:35:00	X	X	X	X	X	X	X	X	X	X	FD(GW-38443-101718-AS-218)
GW-38443-101718-AS-220	MW-209A	Water	10/17/2018	12:55:00	X	X	X	X	X	X	X	X	X	X	
GW-38443-101718-JC-221	MW-230	Water	10/17/2018	14:40:00	X	X	X	X	X	X	X	X	X	X	
GW-38443-101718-AS-222	MW-212	Water	10/17/2018	15:10:00	X	X	X	X	X	X	X	X	X	X	
TB-38443-101718-JC-040	-	Water	10/17/2018	-	X		X								Trip Blank
EB-38443-101818-AS-223	-	Water	10/18/2018	07:30:00	X	X	X	X	X	X	X	X	X	X	Equipment Blank
TB-38443-101818-JC-041	-	Water	10/18/2018	00:00:00	X		X								Trip Blank
GW-38443-101818-AS-224	MW-235	Water	10/18/2018	11:30:00	X	X	X	X	X	X	X	X	X	X	MS/MSD
GW-38443-101818-AS-225	MW-233	Water	10/18/2018	13:55:00	X	X	X	X	X	X	X	X	X	X	
GW-38443-102418-JC-226	MW-223B	Water	10/24/2018	14:30:00	X	X	X	X	X	X	X	X	X	X	
TB-38443-102418-JC-042	-	Water	10/24/2018	-	X		X								Trip Blank
GW-38443-102518-JC-227	MW-223A	Water	10/25/2018	10:00:00	X	X	X	X	X	X	X	X	X	X	MS/MSD
TB-38443-102518-JC-043	-	Water	10/25/2018	-	X		X								Trip Blank

Notes:

-	- Not applicable
FD	- Field Duplicate sample of sample in parentheses
MS/MSD	- Matrix Spike/Matrix Spike Duplicate
PCBs	- Polychlorinated Biphenyls
SVOCs	- Semi-volatile Organic Compounds
VOCs	- Volatile Organic Compounds

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-209**	**MW-209**	**MW-209A**
Sample Name:		**GW-38443-101718-AS-218**	**GW-38443-101718-AS-219**	**GW-38443-101718-AS-220**
Sample Date:		**10/17/2018**	**10/17/2018**	**10/17/2018**
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	2.6 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

	Location ID:	MW-209	MW-209	MW-209A
	Sample Name:	GW-38443-101718-AS-218	GW-38443-101718-AS-219	GW-38443-101718-AS-220
	Sample Date:	10/17/2018	10/17/2018	10/17/2018
			Duplicate	
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
Styrene	µg/L	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.14 U	0.14 U	0.14 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	3.7 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	3.8
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.55 U	0.52 U	0.55 U
2,4,5-Trichlorophenol	µg/L	2.0 U	1.9 U	2.0 U
2,4,6-Trichlorophenol	µg/L	1.8 U	1.7 U	1.8 U
2,4-Dichlorophenol	µg/L	0.26 U	0.25 U	0.26 U
2,4-Dimethylphenol	µg/L	0.52 U	0.49 U	0.51 U
2,4-Dinitrophenol	µg/L	6.2 U	5.9 U	6.1 U
2,4-Dinitrotoluene	µg/L	2.1 U	2.0 U	2.0 U
2,6-Dinitrotoluene	µg/L	2.1 U	2.0 U	2.1 U
2-Chloronaphthalene	µg/L	0.48 U	0.46 U	0.48 U
2-Chlorophenol	µg/L	0.27 U	0.26 U	0.27 U
2-Methylnaphthalene	µg/L	0.11 U	0.11 U	0.11 U
2-Methylphenol	µg/L	0.21 U	0.20 U	0.21 U
2-Nitroaniline	µg/L	0.51 U	0.49 U	0.50 U
2-Nitrophenol	µg/L	0.56 U	0.54 U	0.56 U
3&4-Methylphenol	µg/L	0.19 U	0.18 U	0.19 U
3,3'-Dichlorobenzidine	µg/L	1.2 U	1.1 U	1.1 U
3-Nitroaniline	µg/L	0.57 U	0.54 U	0.56 U
4,6-Dinitro-2-methylphenol	µg/L	2.8 U	2.7 U	2.8 U
4-Bromophenyl phenyl ether	µg/L	0.50 U	0.48 U	0.49 U
4-Chloro-3-methylphenol	µg/L	0.30 U	0.28 U	0.29 U
4-Chloroaniline	µg/L	0.32 U	0.30 U	0.31 U
4-Chlorophenyl phenyl ether	µg/L	0.55 U	0.52 U	0.55 U
4-Nitroaniline	µg/L	0.92 U	0.87 U	0.91 U
4-Nitrophenol	µg/L	2.2 U	2.1 U	2.2 U
Acenaphthene	µg/L	0.17 U	0.16 U	0.17 U
Acenaphthylene	µg/L	0.13 U	0.12 U	0.12 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

	Location ID:	MW-209	MW-209	MW-209A
	Sample Name:	GW-38443-101718-AS-218	GW-38443-101718-AS-219	GW-38443-101718-AS-220
	Sample Date:	10/17/2018	10/17/2018	10/17/2018
			Duplicate	
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/L	0.37 U	0.35 U	0.36 U
Anthracene	µg/L	0.14 U	0.13 U	0.13 U
Atrazine	µg/L	0.95 U	0.91 U	0.94 U
Benzaldehyde	µg/L	0.76 U	0.72 U	0.75 U
Benzo(a)anthracene	µg/L	0.17 U	0.16 U	0.17 U
Benzo(a)pyrene	µg/L	0.17 U	0.16 U	0.17 U
Benzo(b)fluoranthene	µg/L	0.15 U	0.15 U	0.15 U
Benzo(g,h,i)perylene	µg/L	0.18 U	0.17 U	0.18 U
Benzo(k)fluoranthene	µg/L	0.14 U	0.13 U	0.14 U
Biphenyl (1,1-Biphenyl)	µg/L	0.49 U	0.47 U	0.49 U
bis(2-Chloroethoxy)methane	µg/L	0.46 U	0.43 U	0.45 U
bis(2-Chloroethyl)ether	µg/L	0.40 U	0.38 U	0.40 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.2 U	2.1 U	2.2 U
Butyl benzylphthalate (BBP)	µg/L	0.67 U	0.63 U	0.66 U
Caprolactam	µg/L	0.93 U	0.89 U	0.92 U
Carbazole	µg/L	0.49 U	0.47 U	0.49 U
Chrysene	µg/L	0.19 U	0.18 U	0.18 U
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.7 U	1.8 U
Di-n-octyl phthalate (DnOP)	µg/L	0.82 U	0.78 U	0.81 U
Dibenz(a,h)anthracene	µg/L	0.15 U	0.14 U	0.15 U
Dibenzofuran	µg/L	0.56 U	0.53 U	0.56 U
Diethyl phthalate	µg/L	3.8 U	3.6 U	3.8 U
Dimethyl phthalate	µg/L	0.52 U	0.49 U	0.51 U
Fluoranthene	µg/L	0.16 U	0.15 U	0.16 U
Fluorene	µg/L	0.17 U	0.16 U	0.17 U
Hexachlorobenzene	µg/L	0.16 U	0.15 U	0.16 U
Hexachlorobutadiene	µg/L	0.54 U	0.52 U	0.54 U
Hexachlorocyclopentadiene	µg/L	1.8 U	1.7 U	1.7 U
Hexachloroethane	µg/L	0.40 U	0.38 U	0.39 U
Indeno(1,2,3-cd)pyrene	µg/L	0.14 U	0.13 U	0.13 U
Isophorone	µg/L	0.32 U	0.31 U	0.32 U
N-Nitrosodi-n-propylamine	µg/L	0.25 U	0.24 U	0.25 U
N-Nitrosodiphenylamine	µg/L	0.44 U	0.42 U	0.44 U
Naphthalene	µg/L	0.11 U	0.10 U	0.11 U
Nitrobenzene	µg/L	0.51 U	0.49 U	0.51 U
Pentachlorophenol	µg/L	3.1 U	3.0 U	3.1 U
Phenanthrene	µg/L	0.17 U	0.16 U	0.17 U
Phenol	µg/L	0.13 U	0.12 U	0.13 U
Pyrene	µg/L	0.18 U	0.17 U	0.17 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

	Location ID:	MW-209	MW-209	MW-209A
	Sample Name:	GW-38443-101718-AS-218	GW-38443-101718-AS-219	GW-38443-101718-AS-220
	Sample Date:	10/17/2018	10/17/2018	10/17/2018
			Duplicate	
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/L	0.57 U	0.57 U	0.57 U
2,4,5-TP (Silvex)	µg/L	0.43 U	0.43 U	0.43 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	2.2 U	2.2 U	2.2 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/L	0.054 U	0.054 U	0.055 U
Aroclor-1221 (PCB-1221)	µg/L	0.055 U	0.055 U	0.056 U
Aroclor-1232 (PCB-1232)	µg/L	0.071 U	0.072 U	0.073 U
Aroclor-1242 (PCB-1242)	µg/L	0.073 U	0.074 U	0.075 U
Aroclor-1248 (PCB-1248)	µg/L	0.048 U	0.049 U	0.050 U
Aroclor-1254 (PCB-1254)	µg/L	0.038 U	0.039 U	0.040 U
Aroclor-1260 (PCB-1260)	µg/L	0.044 U	0.045 U	0.046 U
Pesticides				
4,4'-DDD	µg/L	0.0051 U	0.0051 U	0.0052 U
4,4'-DDE	µg/L	0.0041 U	0.0042 U	0.0043 U
4,4'-DDT	µg/L	0.0046 U	0.0047 U	0.0048 U
Aldrin	µg/L	0.0023 U	0.0023 U	0.0024 U
alpha-BHC	µg/L	0.0019 U	0.0019 U	0.0020 U
alpha-Chlordane	µg/L	0.0031 U	0.0031 U	0.0032 U
beta-BHC	µg/L	0.0044 U	0.0045 U	0.0046 U
delta-BHC	µg/L	0.0041 U	0.0042 U	0.0043 U
Dieldrin	µg/L	0.0022 U	0.0022 U	0.0023 U
Endosulfan I	µg/L	0.0036 U	0.0036 U	0.0037 U
Endosulfan II	µg/L	0.0022 U	0.0022 U	0.0023 U
Endosulfan sulfate	µg/L	0.0036 U	0.0036 U	0.0037 U
Endrin	µg/L	0.0024 U	0.0024 U	0.0025 U
Endrin aldehyde	µg/L	0.0044 U	0.0045 U	0.0046 U
Endrin ketone	µg/L	0.0038 U	0.0039 U	0.0040 U
gamma-BHC (lindane)	µg/L	0.0024 U	0.0024 U	0.0025 U
gamma-Chlordane	µg/L	0.0048 U	0.0049 U	0.0050 U
Heptachlor	µg/L	0.0032 U	0.0032 U	0.0033 U
Heptachlor epoxide	µg/L	0.0025 U	0.0025 U	0.0026 U
Methoxychlor	µg/L	0.0045 U	0.0046 U	0.0047 U
Toxaphene	µg/L	0.056 U	0.056 U	0.058 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-209**	**MW-209**	**MW-209A**
Sample Name:		**GW-38443-101718-AS-218**	**GW-38443-101718-AS-219**	**GW-38443-101718-AS-220**
Sample Date:		**10/17/2018**	**10/17/2018**	**10/17/2018**
			Duplicate	
Parameters	**Unit**			
Metals				
Aluminum	µg/L	820 J	320 J	51
Aluminum (dissolved)	µg/L	72	72	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	3.2 J	2.6 J	3.7 J
Arsenic (dissolved)	µg/L	2.7 J	2.5 J	4.3 J
Barium	µg/L	290	280	360
Barium (dissolved)	µg/L	290	270	370
Beryllium	µg/L	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U
Calcium	µg/L	49000	46000	74000
Calcium (dissolved)	µg/L	48000	48000	76000
Chromium	µg/L	1.3 J	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.89 J	0.69 J	0.61 J
Cobalt (dissolved)	µg/L	0.64 J	0.64 J	0.61 J
Copper	µg/L	1.8 J	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U
Iron	µg/L	2000	1200	2000
Iron (dissolved)	µg/L	1000	1000	2000
Lead	µg/L	1.3	0.62 J	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	20000	18000	48000
Magnesium (dissolved)	µg/L	19000	19000	48000
Manganese	µg/L	220	210	280
Manganese (dissolved)	µg/L	220	220	290
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	3.2	2.6	1.9 J
Nickel (dissolved)	µg/L	2.2	2.2	1.8 J
Potassium	µg/L	7200	6800	22000
Potassium (dissolved)	µg/L	7200	6800	22000
Selenium	µg/L	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-209**	**MW-209**	**MW-209A**
Sample Name:		**GW-38443-101718-AS-218**	**GW-38443-101718-AS-219**	**GW-38443-101718-AS-220**
Sample Date:		**10/17/2018**	**10/17/2018**	**10/17/2018**
			Duplicate	
Parameters	**Unit**			
Metals				
Silver	µg/L	0.51 J	0.20 J	0.88 J
Silver (dissolved)	µg/L	0.064 J	0.072 J	0.053 U
Sodium	µg/L	66000	64000	71000
Sodium (dissolved)	µg/L	69000	67000	72000
Thallium	µg/L	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	1.8 J	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	15 U	15 U	15 U
Zinc (dissolved)	µg/L	15 U	15 U	15 U
General Chemistry				
Cyanide (total)	mg/L	0.0060 U	0.0060 U	0.0060 U
Chloride	µg/L	47000	47000	94000
Nitrate (as N)	µg/L	33 J	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	21000	21000	14000
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

	Location ID:	**MW-212**	**MW-217**	**MW-223A**
	Sample Name:	**GW-38443-101718-AS-222**	**GW-38443-101718-JC-217**	**GW-38443-102518-JC-227**
	Sample Date:	**10/17/2018**	**10/17/2018**	**10/25/2018**
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.38 J
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	1.1
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-212**	**MW-217**	**MW-223A**
Sample Name:		**GW-38443-101718-AS-222**	**GW-38443-101718-JC-217**	**GW-38443-102518-JC-227**
Sample Date:		**10/17/2018**	**10/17/2018**	**10/25/2018**
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
Styrene	µg/L	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.14 U	0.14 U	0.14 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.55 J
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.52 U	0.54 U	0.55 U
2,4,5-Trichlorophenol	µg/L	1.9 U	1.9 U	2.0 U
2,4,6-Trichlorophenol	µg/L	1.7 U	1.8 U	1.8 U
2,4-Dichlorophenol	µg/L	0.25 U	0.26 U	0.26 U
2,4-Dimethylphenol	µg/L	0.49 U	0.51 U	0.51 U
2,4-Dinitrophenol	µg/L	5.9 U	6.1 U	6.1 U
2,4-Dinitrotoluene	µg/L	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	µg/L	2.0 U	2.1 U	2.1 U
2-Chloronaphthalene	µg/L	0.46 U	0.47 U	0.48 U
2-Chlorophenol	µg/L	0.26 U	0.27 U	0.27 U
2-Methylnaphthalene	µg/L	0.11 U	0.11 U	0.11 U
2-Methylphenol	µg/L	0.20 U	0.20 U	0.21 U
2-Nitroaniline	µg/L	0.49 U	0.50 U	0.50 U
2-Nitrophenol	µg/L	0.54 U	0.55 U	0.56 U
3&4-Methylphenol	µg/L	0.18 U	0.19 U	0.19 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	R	1.1 U
3-Nitroaniline	µg/L	0.54 U	0.55 U	0.56 U
4,6-Dinitro-2-methylphenol	µg/L	2.7 U	2.8 U	2.8 U
4-Bromophenyl phenyl ether	µg/L	0.48 U	0.49 U	0.49 U
4-Chloro-3-methylphenol	µg/L	0.28 U	0.29 U	0.29 U
4-Chloroaniline	µg/L	0.30 U	0.31 U	0.31 U
4-Chlorophenyl phenyl ether	µg/L	0.52 U	0.54 U	0.55 U
4-Nitroaniline	µg/L	0.87 U	0.90 U	0.91 U
4-Nitrophenol	µg/L	2.1 U	2.1 U	2.2 U
Acenaphthene	µg/L	0.16 U	0.17 U	0.17 U
Acenaphthylene	µg/L	0.12 U	0.12 U	0.12 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

	Location ID:	**MW-212**	**MW-217**	**MW-223A**
	Sample Name:	**GW-38443-101718-AS-222**	**GW-38443-101718-JC-217**	**GW-38443-102518-JC-227**
	Sample Date:	**10/17/2018**	**10/17/2018**	**10/25/2018**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/L	0.35 U	0.36 U	0.36 U
Anthracene	µg/L	0.13 U	0.13 U	0.13 U
Atrazine	µg/L	0.91 U	0.93 U	0.94 U
Benzaldehyde	µg/L	0.72 U	0.74 U	0.75 U
Benzo(a)anthracene	µg/L	0.16 U	0.17 U	0.17 U
Benzo(a)pyrene	µg/L	0.16 U	0.17 U	0.17 U
Benzo(b)fluoranthene	µg/L	0.15 U	0.15 U	0.15 U
Benzo(g,h,i)perylene	µg/L	0.17 U	0.17 U	0.18 U
Benzo(k)fluoranthene	µg/L	0.13 U	0.14 U	0.14 U
Biphenyl (1,1-Biphenyl)	µg/L	0.47 U	0.48 U	0.49 U
bis(2-Chloroethoxy)methane	µg/L	0.43 U	0.45 U	0.45 U
bis(2-Chloroethyl)ether	µg/L	0.38 U	0.39 U	0.40 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.1 U	28 J	2.2 U
Butyl benzylphthalate (BBP)	µg/L	0.63 U	0.65 U	0.66 U
Caprolactam	µg/L	0.89 U	0.92 U	0.92 U
Carbazole	µg/L	0.47 U	0.48 U	0.49 U
Chrysene	µg/L	0.18 U	0.18 U	0.18 U
Di-n-butylphthalate (DBP)	µg/L	1.7 U	1.8 U	1.8 U
Di-n-octyl phthalate (DnOP)	µg/L	0.78 U	0.80 U	0.81 U
Dibenz(a,h)anthracene	µg/L	0.14 U	0.15 U	0.15 U
Dibenzofuran	µg/L	0.53 U	0.55 U	0.56 U
Diethyl phthalate	µg/L	3.6 U	3.7 U	3.8 U
Dimethyl phthalate	µg/L	0.49 U	0.50 U	0.51 U
Fluoranthene	µg/L	0.15 U	0.16 U	0.16 U
Fluorene	µg/L	0.16 U	0.17 U	0.17 U
Hexachlorobenzene	µg/L	0.15 U	0.16 U	0.16 U
Hexachlorobutadiene	µg/L	0.52 U	0.53 U	0.54 U
Hexachlorocyclopentadiene	µg/L	1.7 U	1.7 U	1.7 U
Hexachloroethane	µg/L	0.38 U	0.39 U	0.39 U
Indeno(1,2,3-cd)pyrene	µg/L	0.13 U	0.13 U	0.13 U
Isophorone	µg/L	0.31 U	0.32 U	0.32 U
N-Nitrosodi-n-propylamine	µg/L	0.24 U	0.25 U	0.25 U
N-Nitrosodiphenylamine	µg/L	0.42 U	0.43 U	0.44 U
Naphthalene	µg/L	0.10 U	0.11 U	0.11 U
Nitrobenzene	µg/L	0.49 U	0.50 U	0.51 U
Pentachlorophenol	µg/L	3.0 U	3.0 U	3.1 U
Phenanthrene	µg/L	0.16 U	0.16 U	0.17 U
Phenol	µg/L	0.12 U	0.13 U	0.13 U
Pyrene	µg/L	0.17 U	0.17 U	0.17 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-212**	**MW-217**	**MW-223A**
Sample Name:		**GW-38443-101718-AS-222**	**GW-38443-101718-JC-217**	**GW-38443-102518-JC-227**
Sample Date:		**10/17/2018**	**10/17/2018**	**10/25/2018**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/L	0.57 U	0.57 U	0.57 U
2,4,5-TP (Silvex)	µg/L	0.43 U	0.43 U	0.43 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	2.2 U	2.2 U	2.2 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/L	0.055 U	0.054 U	0.058 U
Aroclor-1221 (PCB-1221)	µg/L	0.056 U	0.055 U	0.059 U
Aroclor-1232 (PCB-1232)	µg/L	0.073 U	0.071 U	0.077 U
Aroclor-1242 (PCB-1242)	µg/L	0.075 U	0.073 U	0.079 U
Aroclor-1248 (PCB-1248)	µg/L	0.049 U	0.048 U	0.052 U
Aroclor-1254 (PCB-1254)	µg/L	0.039 U	0.038 U	0.042 U
Aroclor-1260 (PCB-1260)	µg/L	0.045 U	0.044 U	0.048 U
Pesticides				
4,4'-DDD	µg/L	0.10 U	0.0051 U	0.055 U
4,4'-DDE	µg/L	0.0042 U	0.0041 U	0.045 U
4,4'-DDT	µg/L	0.094 U	0.0046 U	0.050 U
Aldrin	µg/L	0.0024 U	0.0023 U	0.025 U
alpha-BHC	µg/L	0.039 U	0.0019 U	0.021 U
alpha-Chlordane	µg/L	0.0031 U	0.0031 U	0.033 U
beta-BHC	µg/L	0.0045 U	0.0044 U	0.048 U
delta-BHC	µg/L	0.084 U	0.0041 U	0.045 U
Dieldrin	µg/L	0.0023 U	0.0022 U	0.024 U
Endosulfan I	µg/L	0.0036 U	0.0036 U	0.039 U
Endosulfan II	µg/L	0.0023 U	0.0022 U	0.024 U
Endosulfan sulfate	µg/L	0.073 U	0.0036 U	0.039 U
Endrin	µg/L	0.0025 U	0.0024 U	0.026 U
Endrin aldehyde	µg/L	0.090 U	0.0044 U	0.048 U
Endrin ketone	µg/L	0.0039 U	0.0038 U	0.042 U
gamma-BHC (lindane)	µg/L	0.049 U	0.0024 U	0.026 U
gamma-Chlordane	µg/L	0.0049 U	0.0048 U	0.052 U
Heptachlor	µg/L	0.0032 U	0.0032 U	0.034 U
Heptachlor epoxide	µg/L	0.0025 U	0.0025 U	0.027 U
Methoxychlor	µg/L	0.0046 U	0.0045 U	0.049 U
Toxaphene	µg/L	0.057 U	0.056 U	0.61 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-212**	**MW-217**	**MW-223A**
Sample Name:		**GW-38443-101718-AS-222**	**GW-38443-101718-JC-217**	**GW-38443-102518-JC-227**
Sample Date:		**10/17/2018**	**10/17/2018**	**10/25/2018**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	150	34 U	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	1.1 J	0.87 J	0.75 U
Arsenic (dissolved)	µg/L	1.0 J	0.75 U	0.75 U
Barium	µg/L	370	97	180
Barium (dissolved)	µg/L	400	89	170
Beryllium	µg/L	0.31 U	0.31 J	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.55 J	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U
Calcium	µg/L	22000	120000	150000
Calcium (dissolved)	µg/L	23000	110000	140000
Chromium	µg/L	2.1	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.33 J	1.1	0.19 U
Cobalt (dissolved)	µg/L	0.25 J	1.1	0.19 U
Copper	µg/L	1.7 U	1.7 U	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U
Iron	µg/L	640	200	47 U
Iron (dissolved)	µg/L	450	120	47 U
Lead	µg/L	0.45 U	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	5800	110000	44000
Magnesium (dissolved)	µg/L	5900	100000	41000
Manganese	µg/L	36	710	11
Manganese (dissolved)	µg/L	34	670	11
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	2.3	4.4	1.5 J
Nickel (dissolved)	µg/L	1.5 J	4.0	1.5 U
Potassium	µg/L	21000	22000	8800
Potassium (dissolved)	µg/L	22000	21000	8300
Selenium	µg/L	0.89 U	1.3 J	13
Selenium (dissolved)	µg/L	0.89 U	1.5 J	12

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-212**	**MW-217**	**MW-223A**
Sample Name:		**GW-38443-101718-AS-222**	**GW-38443-101718-JC-217**	**GW-38443-102518-JC-227**
Sample Date:		**10/17/2018**	**10/17/2018**	**10/25/2018**
Parameters	**Unit**			
Metals				
Silver	µg/L	1.6	0.46 J	2.0
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.44 J
Sodium	µg/L	69000	78000	69000
Sodium (dissolved)	µg/L	72000	75000	66000
Thallium	µg/L	0.20 U	0.21 J	0.32 J
Thallium (dissolved)	µg/L	0.20 U	0.25 J	0.30 J
Vanadium	µg/L	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U
Zinc	µg/L	15 U	15 U	15 U
Zinc (dissolved)	µg/L	15 U	15 U	15 U
General Chemistry				
Cyanide (total)	mg/L	0.0060 U	0.0060 U	0.0060 U
Chloride	µg/L	33000	110000	110000
Nitrate (as N)	µg/L	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	37000	150000	90000
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

	Location ID:	**MW-223B**	**MW-224A**	**MW-224B**
	Sample Name:	**GW-38443-102418-JC-226**	**GW-38443-101618-AS-215**	**GW-38443-101618-AS-214**
	Sample Date:	**10/24/2018**	**10/16/2018**	**10/16/2018**
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
1,1,1-Trichloroethane	µg/L	1.2 U	0.25 J	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.65 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.45 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.85 U	0.17 U	0.49 J
1,1-Dichloroethene	µg/L	0.95 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.3 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.75 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	1.1 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.75 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.75 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.80 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.8 U	1.2 U	1.2 U
2-Hexanone	µg/L	2.7 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2.1 U	0.42 U	0.42 U
Acetone	µg/L	27 U	5.4 U	5.4 U
Benzene	µg/L	0.65 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.85 U	0.17 U	0.17 U
Bromoform	µg/L	3.8 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	2.1 U	0.42 U	0.42 U
Carbon disulfide	µg/L	1.4 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	1.3 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.70 U	0.14 U	0.14 U
Chloroethane	µg/L	4.2 U	0.83 UJ	0.83 UJ
Chloroform (Trichloromethane)	µg/L	0.65 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	130	0.16 U	0.74 J
cis-1,3-Dichloropropene	µg/L	3.1 U	0.61 U	0.61 U
Cyclohexane	µg/L	1.2 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	2.0 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.8 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.55 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.45 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.40 U	0.080 U	0.080 U
Methyl acetate	µg/L	8.6 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	1.7 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.35 U	0.070 U	0.070 U
Methylene chloride	µg/L	13 U	2.6 U	2.6 U
o-Xylene	µg/L	0.45 U	0.090 U	0.090 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-223B**	**MW-224A**	**MW-224B**
Sample Name:		**GW-38443-102418-JC-226**	**GW-38443-101618-AS-215**	**GW-38443-101618-AS-214**
Sample Date:		**10/24/2018**	**10/16/2018**	**10/16/2018**
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
Styrene	µg/L	0.50 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.75 U	0.15 U	0.15 U
Toluene	µg/L	0.70 U	0.14 U	0.14 U
trans-1,2-Dichloroethene	µg/L	0.95 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	3.4 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.50 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	2.3 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	2.1 U	0.41 UJ	0.41 UJ
Vinyl chloride	µg/L	85	0.20 U	0.20 U
Xylenes (total)	µg/L	0.75 U	0.15 U	0.15 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.54 U	0.53 U	0.52 U
2,4,5-Trichlorophenol	µg/L	1.9 U	1.9 U	1.9 U
2,4,6-Trichlorophenol	µg/L	1.8 U	1.7 U	1.7 U
2,4-Dichlorophenol	µg/L	0.26 U	0.25 U	0.25 U
2,4-Dimethylphenol	µg/L	0.51 U	0.50 U	0.49 U
2,4-Dinitrophenol	µg/L	6.1 U	6.0 U	5.9 U
2,4-Dinitrotoluene	µg/L	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	µg/L	2.1 U	2.1 U	2.0 U
2-Chloronaphthalene	µg/L	0.47 U	0.47 U	0.46 U
2-Chlorophenol	µg/L	0.27 U	0.27 U	0.26 U
2-Methylnaphthalene	µg/L	0.11 U	0.11 U	0.11 U
2-Methylphenol	µg/L	0.20 U	0.20 U	0.20 U
2-Nitroaniline	µg/L	0.50 U	0.50 U	0.49 U
2-Nitrophenol	µg/L	0.55 U	0.55 U	0.54 U
3&4-Methylphenol	µg/L	0.19 U	0.19 U	0.18 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	1.1 U	1.1 U
3-Nitroaniline	µg/L	0.55 U	0.55 U	0.54 U
4,6-Dinitro-2-methylphenol	µg/L	2.8 U	2.7 U	2.7 U
4-Bromophenyl phenyl ether	µg/L	0.49 U	0.48 U	0.48 U
4-Chloro-3-methylphenol	µg/L	0.29 U	0.29 U	0.28 U
4-Chloroaniline	µg/L	0.31 U	0.31 U	0.30 U
4-Chlorophenyl phenyl ether	µg/L	0.54 U	0.53 U	0.52 U
4-Nitroaniline	µg/L	0.90 U	0.89 U	0.87 U
4-Nitrophenol	µg/L	2.1 U	2.1 U	2.1 U
Acenaphthene	µg/L	0.17 U	0.17 U	0.16 U
Acenaphthylene	µg/L	0.12 U	0.12 U	0.12 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

	Location ID:	**MW-223B**	**MW-224A**	**MW-224B**
	Sample Name:	**GW-38443-102418-JC-226**	**GW-38443-101618-AS-215**	**GW-38443-101618-AS-214**
	Sample Date:	**10/24/2018**	**10/16/2018**	**10/16/2018**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Acetophenone	µg/L	0.36 U	0.36 U	0.35 U
Anthracene	µg/L	0.13 U	0.13 U	0.13 U
Atrazine	µg/L	0.93 U	0.92 U	0.91 U
Benzaldehyde	µg/L	0.74 U	0.74 U	0.72 U
Benzo(a)anthracene	µg/L	0.17 U	0.17 U	0.16 U
Benzo(a)pyrene	µg/L	0.17 U	0.17 U	0.16 U
Benzo(b)fluoranthene	µg/L	0.15 U	0.15 U	0.15 U
Benzo(g,h,i)perylene	µg/L	0.17 U	0.17 U	0.17 U
Benzo(k)fluoranthene	µg/L	0.14 U	0.14 U	0.13 U
Biphenyl (1,1-Biphenyl)	µg/L	0.48 U	0.48 U	0.47 U
bis(2-Chloroethoxy)methane	µg/L	0.45 U	0.44 U	0.43 U
bis(2-Chloroethyl)ether	µg/L	0.39 U	0.39 U	0.38 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.2 U	2.2 U	2.1 U
Butyl benzylphthalate (BBP)	µg/L	0.65 U	0.65 U	0.63 U
Caprolactam	µg/L	0.92 U	0.91 U	0.89 U
Carbazole	µg/L	0.48 U	0.48 U	0.47 U
Chrysene	µg/L	0.18 U	0.18 U	0.18 U
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.8 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.80 U	0.80 U	0.78 U
Dibenz(a,h)anthracene	µg/L	0.15 U	0.15 U	0.14 U
Dibenzofuran	µg/L	0.55 U	0.54 U	0.53 U
Diethyl phthalate	µg/L	3.7 U	3.7 U	3.6 U
Dimethyl phthalate	µg/L	0.50 U	0.50 U	0.49 U
Fluoranthene	µg/L	0.16 U	0.16 U	0.19
Fluorene	µg/L	0.17 U	0.16 U	0.16 U
Hexachlorobenzene	µg/L	0.16 U	0.16 U	0.15 U
Hexachlorobutadiene	µg/L	0.53 U	0.53 U	0.52 U
Hexachlorocyclopentadiene	µg/L	1.7 U	1.7 U	1.7 U
Hexachloroethane	µg/L	0.39 U	0.38 U	0.38 U
Indeno(1,2,3-cd)pyrene	µg/L	0.13 U	0.13 U	0.13 U
Isophorone	µg/L	0.32 U	0.31 U	0.31 U
N-Nitrosodi-n-propylamine	µg/L	0.25 U	0.25 U	0.24 U
N-Nitrosodiphenylamine	µg/L	0.43 U	0.43 U	0.42 U
Naphthalene	µg/L	0.11 U	0.11 U	0.10 U
Nitrobenzene	µg/L	0.50 U	0.50 U	0.49 U
Pentachlorophenol	µg/L	3.0 U	3.0 U	3.0 U
Phenanthrene	µg/L	0.16 U	0.16 U	0.16 U
Phenol	µg/L	0.13 U	0.12 U	0.12 U
Pyrene	µg/L	0.17 U	0.17 U	0.17 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-223B**	**MW-224A**	**MW-224B**
Sample Name:		**GW-38443-102418-JC-226**	**GW-38443-101618-AS-215**	**GW-38443-101618-AS-214**
Sample Date:		**10/24/2018**	**10/16/2018**	**10/16/2018**
Parameters	**Unit**			
Herbicides				
2,4,5-T	µg/L	0.57 U	0.57 U	0.57 U
2,4,5-TP (Silvex)	µg/L	0.43 U	0.43 U	0.43 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	2.2 U	2.2 U	2.2 U
PCBs				
Aroclor-1016 (PCB-1016)	µg/L	0.054 U	0.053 U	0.053 U
Aroclor-1221 (PCB-1221)	µg/L	0.055 U	0.054 U	0.054 U
Aroclor-1232 (PCB-1232)	µg/L	0.071 U	0.070 U	0.070 U
Aroclor-1242 (PCB-1242)	µg/L	0.073 U	0.072 U	0.072 U
Aroclor-1248 (PCB-1248)	µg/L	0.048 U	0.048 U	0.048 U
Aroclor-1254 (PCB-1254)	µg/L	0.038 U	0.038 U	0.038 U
Aroclor-1260 (PCB-1260)	µg/L	0.044 U	0.044 U	0.044 U
Pesticides				
4,4'-DDD	µg/L	0.0051 U	0.0051 U	0.025 U
4,4'-DDE	µg/L	0.0041 U	0.0041 U	0.020 U
4,4'-DDT	µg/L	0.0046 U	0.0046 U	0.023 U
Aldrin	µg/L	0.0023 U	0.0023 U	0.011 U
alpha-BHC	µg/L	0.0019 U	0.0019 U	0.0095 U
alpha-Chlordane	µg/L	0.0031 U	0.0031 U	0.015 U
beta-BHC	µg/L	0.0044 U	0.0044 U	0.022 U
delta-BHC	µg/L	0.0041 U	0.0041 U	0.020 U
Dieldrin	µg/L	0.0022 U	0.0022 U	0.011 U
Endosulfan I	µg/L	0.0036 U	0.0036 U	0.018 U
Endosulfan II	µg/L	0.0022 U	0.0022 U	0.011 U
Endosulfan sulfate	µg/L	0.0036 U	0.0036 U	0.018 U
Endrin	µg/L	0.0024 U	0.0024 U	0.012 U
Endrin aldehyde	µg/L	0.0044 U	0.0044 U	0.022 U
Endrin ketone	µg/L	0.0038 U	0.0038 U	0.019 U
gamma-BHC (lindane)	µg/L	0.0024 U	0.0024 U	0.012 U
gamma-Chlordane	µg/L	0.0048 U	0.0048 U	0.024 U
Heptachlor	µg/L	0.0032 U	0.0032 U	0.016 U
Heptachlor epoxide	µg/L	0.0025 U	0.0025 U	0.012 U
Methoxychlor	µg/L	0.0045 U	0.0045 U	0.022 U
Toxaphene	µg/L	0.056 U	0.056 U	0.28 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-223B**	**MW-224A**	**MW-224B**
Sample Name:		**GW-38443-102418-JC-226**	**GW-38443-101618-AS-215**	**GW-38443-101618-AS-214**
Sample Date:		**10/24/2018**	**10/16/2018**	**10/16/2018**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	85	34 U	260
Aluminum (dissolved)	µg/L	34 U	34 U	34 U
Antimony	µg/L	0.57 U	1.4 J	0.57 U
Antimony (dissolved)	µg/L	0.57 U	1.3 J	0.57 U
Arsenic	µg/L	5.3	2.2 J	7.5
Arsenic (dissolved)	µg/L	5.4	2.9 J	6.9
Barium	µg/L	140	180	160
Barium (dissolved)	µg/L	130	170	150
Beryllium	µg/L	0.31 U	0.33 J	0.59 J
Beryllium (dissolved)	µg/L	0.43 J	0.31 U	0.41 J
Cadmium	µg/L	0.21 U	0.21 U	0.21 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U
Calcium	µg/L	83000	170000	97000
Calcium (dissolved)	µg/L	83000	160000	94000
Chromium	µg/L	0.98 U	0.98 U	1.2 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.19 U	0.19 U	0.25 J
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.19 U
Copper	µg/L	1.7 U	1.7 U	1.8 J
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U
Iron	µg/L	2900	47 U	2500
Iron (dissolved)	µg/L	2700	47 U	1900
Lead	µg/L	0.46 J	0.45 U	1.4
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	33000	41000	34000
Magnesium (dissolved)	µg/L	33000	39000	33000
Manganese	µg/L	100	2.1 U	120
Manganese (dissolved)	µg/L	100	2.1 U	100
Mercury	µg/L	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	3.2
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U
Potassium	µg/L	9500	12000	3000
Potassium (dissolved)	µg/L	9600	11000	3000
Selenium	µg/L	0.89 U	60	0.97 J
Selenium (dissolved)	µg/L	0.89 U	60	0.89 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-223B**	**MW-224A**	**MW-224B**
Sample Name:		**GW-38443-102418-JC-226**	**GW-38443-101618-AS-215**	**GW-38443-101618-AS-214**
Sample Date:		**10/24/2018**	**10/16/2018**	**10/16/2018**
Parameters	**Unit**			
Metals				
Silver	µg/L	2.9	0.24 J	23
Silver (dissolved)	µg/L	0.053 U	0.053 U	3.2
Sodium	µg/L	31000	160000	33000
Sodium (dissolved)	µg/L	31000	160000	33000
Thallium	µg/L	0.20 U	0.49 J	0.21 J
Thallium (dissolved)	µg/L	0.20 J	0.48 J	0.20 U
Vanadium	µg/L	0.82 U	3.2 J	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	3.2 J	0.82 U
Zinc	µg/L	15 U	15 U	15 U
Zinc (dissolved)	µg/L	15 U	15 U	15 U
General Chemistry				
Cyanide (total)	mg/L	0.0060 U	0.0060 U	0.0060 U
Chloride	µg/L	67000	310000	63000
Nitrate (as N)	µg/L	14 U	2600	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U
Sulfate	µg/L	75000	140000	62000
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-230**	**MW-233**	**MW-234**	**MW-235**
Sample Name:		**GW-38443-101718-JC-221**	**GW-38443-101818-AS-225**	**GW-38443-101618-AS-216**	**GW-38443-101818-AS-224**
Sample Date:		**10/17/2018**	**10/18/2018**	**10/16/2018**	**10/18/2018**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	16 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	8.7 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	6.0 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	1.0	11 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	13 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	17 U
1,2-Dichlorobenzene	µg/L	0.27 J	0.15 U	0.15 U	10 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	14 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	10 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	10 U
1,4-Dichlorobenzene	µg/L	0.16 J	0.16 U	0.16 U	11 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	77 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	36 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	28 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	360 U
Benzene	µg/L	4.4	0.13 U	0.13 U	8.7 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	11 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	51 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	28 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	19 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	17 U
Chlorobenzene	µg/L	2.2	0.14 U	0.14 U	9.3 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 UJ	55 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	8.7 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	13 U
cis-1,2-Dichloroethene	µg/L	2.0 U	0.36 J	0.16 U	1100
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	41 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	16 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	26 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	23 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	7.3 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	6.0 U
m&p-Xylenes	µg/L	0.15 J	0.080 U	0.080 U	5.3 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	110 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	22 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	4.7 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	170 U
o-Xylene	µg/L	0.25 J	0.090 U	0.090 U	6.0 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-230**	**MW-233**	**MW-234**	**MW-235**
Sample Name:		**GW-38443-101718-JC-221**	**GW-38443-101818-AS-225**	**GW-38443-101618-AS-216**	**GW-38443-101818-AS-224**
Sample Date:		**10/17/2018**	**10/18/2018**	**10/16/2018**	**10/18/2018**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
Styrene	µg/L	0.10 U	0.10 U	0.10 U	6.7 U
Tetrachloroethene	µg/L	0.15 U	0.31 J	0.15 U	10 U
Toluene	µg/L	0.14 U	0.14 U	0.14 U	9.3 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	13 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	45 U
Trichloroethene	µg/L	0.10 U	1.9	0.10 U	6.7 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	30 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 UJ	27 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	620
Xylenes (total)	µg/L	0.40 J	0.15 U	0.15 U	10 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.55 U	0.52 U	0.52 U	0.52 U
2,4,5-Trichlorophenol	µg/L	2.0 U	1.9 U	1.9 U	1.9 U
2,4,6-Trichlorophenol	µg/L	1.8 U	1.7 U	1.7 U	1.7 U
2,4-Dichlorophenol	µg/L	0.26 U	0.25 U	0.25 U	0.25 U
2,4-Dimethylphenol	µg/L	0.51 U	0.49 U	0.49 U	0.49 U
2,4-Dinitrophenol	µg/L	6.1 U	5.9 U	5.9 U	5.9 U
2,4-Dinitrotoluene	µg/L	2.0 U	2.0 U	2.0 U	2.0 U
2,6-Dinitrotoluene	µg/L	2.1 U	2.0 U	2.0 U	2.0 U
2-Chloronaphthalene	µg/L	0.48 U	0.46 U	0.46 U	0.46 U
2-Chlorophenol	µg/L	0.27 U	0.26 U	0.26 U	0.26 U
2-Methylnaphthalene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
2-Methylphenol	µg/L	0.21 U	0.20 U	0.20 U	0.20 U
2-Nitroaniline	µg/L	0.50 U	0.49 U	0.49 U	0.49 U
2-Nitrophenol	µg/L	0.56 U	0.54 U	0.54 U	0.54 U
3&4-Methylphenol	µg/L	0.19 U	0.18 U	0.18 U	0.18 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	1.1 U	1.1 U	1.1 U
3-Nitroaniline	µg/L	0.56 U	0.54 U	0.54 U	0.54 U
4,6-Dinitro-2-methylphenol	µg/L	2.8 U	2.7 U	2.7 U	2.7 U
4-Bromophenyl phenyl ether	µg/L	0.49 U	0.48 U	0.48 U	0.48 U
4-Chloro-3-methylphenol	µg/L	0.29 U	0.28 U	0.28 U	0.28 U
4-Chloroaniline	µg/L	0.31 U	0.30 U	0.30 U	0.30 U
4-Chlorophenyl phenyl ether	µg/L	0.55 U	0.52 U	0.52 U	0.52 U
4-Nitroaniline	µg/L	0.91 U	0.87 U	0.87 U	0.87 U
4-Nitrophenol	µg/L	2.2 U	2.1 U	2.1 U	2.1 U
Acenaphthene	µg/L	0.17 U	0.16 U	0.16 U	0.16 U
Acenaphthylene	µg/L	0.12 U	0.12 U	0.12 U	0.12 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-230**	**MW-233**	**MW-234**	**MW-235**
Sample Name:		**GW-38443-101718-JC-221**	**GW-38443-101818-AS-225**	**GW-38443-101618-AS-216**	**GW-38443-101818-AS-224**
Sample Date:		**10/17/2018**	**10/18/2018**	**10/16/2018**	**10/18/2018**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Acetophenone	µg/L	0.36 U	0.35 U	0.35 U	0.35 U
Anthracene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Atrazine	µg/L	0.94 U	0.91 U	0.91 U	0.91 U
Benzaldehyde	µg/L	0.75 U	0.72 U	0.72 U	0.72 U
Benzo(a)anthracene	µg/L	0.17 U	0.16 U	0.16 U	0.16 U
Benzo(a)pyrene	µg/L	0.17 U	0.16 U	0.16 U	0.16 U
Benzo(b)fluoranthene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Benzo(g,h,i)perylene	µg/L	0.18 U	0.17 U	0.17 U	0.17 U
Benzo(k)fluoranthene	µg/L	0.14 U	0.13 U	0.13 U	0.13 U
Biphenyl (1,1-Biphenyl)	µg/L	0.49 U	0.47 U	0.47 U	0.47 U
bis(2-Chloroethoxy)methane	µg/L	0.45 U	0.43 U	0.43 U	0.43 U
bis(2-Chloroethyl)ether	µg/L	0.40 U	0.38 U	0.38 U	0.38 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.2 U	2.1 U	2.1 U	2.1 U
Butyl benzylphthalate (BBP)	µg/L	0.66 U	0.63 U	0.63 U	0.63 U
Caprolactam	µg/L	0.92 U	0.89 U	0.89 U	0.89 U
Carbazole	µg/L	0.49 U	0.47 U	0.47 U	0.47 U
Chrysene	µg/L	0.18 U	0.18 U	0.18 U	0.18 U
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.7 U	1.7 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.81 U	0.78 U	0.78 U	0.78 U
Dibenz(a,h)anthracene	µg/L	0.15 U	0.14 U	0.14 U	0.14 U
Dibenzofuran	µg/L	0.56 U	0.53 U	0.53 U	0.53 U
Diethyl phthalate	µg/L	3.8 U	3.6 U	3.6 U	3.6 U
Dimethyl phthalate	µg/L	0.51 U	0.49 U	0.49 U	0.49 U
Fluoranthene	µg/L	0.16 U	0.15 U	0.15 U	0.15 U
Fluorene	µg/L	0.17 U	0.16 U	0.16 U	0.16 U
Hexachlorobenzene	µg/L	0.16 U	0.15 U	0.15 U	0.15 U
Hexachlorobutadiene	µg/L	0.54 U	0.52 U	0.52 U	0.52 U
Hexachlorocyclopentadiene	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Hexachloroethane	µg/L	0.39 U	0.38 U	0.38 U	0.38 U
Indeno(1,2,3-cd)pyrene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Isophorone	µg/L	0.32 U	0.31 U	0.31 U	0.31 U
N-Nitrosodi-n-propylamine	µg/L	0.25 U	0.24 U	0.24 U	0.24 U
N-Nitrosodiphenylamine	µg/L	0.44 U	0.42 U	0.42 U	0.42 U
Naphthalene	µg/L	0.11 U	0.10 U	0.10 U	0.10 U
Nitrobenzene	µg/L	0.51 U	0.49 U	0.49 U	0.49 U
Pentachlorophenol	µg/L	3.1 U	3.0 U	3.0 U	3.0 U
Phenanthrene	µg/L	0.17 U	0.16 U	0.16 U	0.16 U
Phenol	µg/L	0.13 U	0.12 U	0.12 U	0.12 U
Pyrene	µg/L	0.17 U	0.17 U	0.17 U	0.17 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-230**	**MW-233**	**MW-234**	**MW-235**
Sample Name:		**GW-38443-101718-JC-221**	**GW-38443-101818-AS-225**	**GW-38443-101618-AS-216**	**GW-38443-101818-AS-224**
Sample Date:		**10/17/2018**	**10/18/2018**	**10/16/2018**	**10/18/2018**
Parameters	**Unit**				
Herbicides					
2,4,5-T	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
2,4,5-TP (Silvex)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	2.2 U	2.2 U	2.2 U	2.2 U
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.055 U	0.057 U	0.053 U	0.054 U
Aroclor-1221 (PCB-1221)	µg/L	0.056 U	0.058 U	0.054 U	0.055 U
Aroclor-1232 (PCB-1232)	µg/L	0.073 U	0.076 U	0.070 U	0.072 U
Aroclor-1242 (PCB-1242)	µg/L	0.075 U	0.078 U	0.072 U	0.074 U
Aroclor-1248 (PCB-1248)	µg/L	0.050 U	0.051 U	0.048 U	0.049 U
Aroclor-1254 (PCB-1254)	µg/L	0.040 U	0.041 U	0.038 U	0.039 U
Aroclor-1260 (PCB-1260)	µg/L	0.046 U	0.047 U	0.044 U	0.045 U
Pesticides					
4,4'-DDD	µg/L	0.0052 U	0.0054 U	0.0051 U	0.0051 U
4,4'-DDE	µg/L	0.0043 U	0.0044 U	0.0041 U	0.0042 U
4,4'-DDT	µg/L	0.0048 U	0.0049 U	0.0046 U	0.0047 U
Aldrin	µg/L	0.0024 U	0.0024 U	0.0023 U	0.0023 U
alpha-BHC	µg/L	0.0020 U	0.0020 U	0.0019 U	0.0019 U
alpha-Chlordane	µg/L	0.0032 U	0.0033 U	0.0031 U	0.0031 U
beta-BHC	µg/L	0.0046 U	0.0047 U	0.0044 U	0.0045 U
delta-BHC	µg/L	0.0043 U	0.0044 U	0.0041 U	0.0042 U
Dieldrin	µg/L	0.0023 U	0.0023 U	0.0022 U	0.0022 U
Endosulfan I	µg/L	0.0037 U	0.0038 U	0.0036 U	0.0036 U
Endosulfan II	µg/L	0.0023 U	0.0023 U	0.0022 U	0.0022 U
Endosulfan sulfate	µg/L	0.0037 U	0.0038 U	0.0036 U	0.0036 U
Endrin	µg/L	0.0025 U	0.0026 U	0.0024 U	0.0024 U
Endrin aldehyde	µg/L	0.0046 U	0.0047 U	0.0044 U	0.0045 U
Endrin ketone	µg/L	0.0040 U	0.0041 U	0.0038 U	0.0039 U
gamma-BHC (lindane)	µg/L	0.0025 U	0.0026 U	0.0024 U	0.0024 U
gamma-Chlordane	µg/L	0.0050 U	0.0051 U	0.0048 U	0.0049 U
Heptachlor	µg/L	0.0033 U	0.0034 U	0.0032 U	0.0032 U
Heptachlor epoxide	µg/L	0.0026 U	0.0027 U	0.0025 U	0.0025 U
Methoxychlor	µg/L	0.0047 U	0.0048 U	0.0045 U	0.0046 U
Toxaphene	µg/L	0.058 U	0.059 U	0.056 U	0.056 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-230**	**MW-233**	**MW-234**	**MW-235**
Sample Name:		**GW-38443-101718-JC-221**	**GW-38443-101818-AS-225**	**GW-38443-101618-AS-216**	**GW-38443-101818-AS-224**
Sample Date:		**10/17/2018**	**10/18/2018**	**10/16/2018**	**10/18/2018**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	2100	34 U	240	46 J
Aluminum (dissolved)	µg/L	78	34 U	34 U	34 U
Antimony	µg/L	0.57 U	3.0	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	3.1	0.57 U	0.57 U
Arsenic	µg/L	4.2 J	0.75 U	1.1 J	3.2 J
Arsenic (dissolved)	µg/L	2.1 J	0.75 U	0.75 U	3.0 J
Barium	µg/L	2000	200	120	190
Barium (dissolved)	µg/L	1900	200	120	180
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.63 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.86 J
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	170000	97000	59000	130000
Calcium (dissolved)	µg/L	150000	98000	57000	130000
Chromium	µg/L	4.3	0.98 U	0.98 U	1.8 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	8.4	0.30 J	0.39 J	1.0
Cobalt (dissolved)	µg/L	7.0	0.29 J	0.23 J	0.92 J
Copper	µg/L	17	1.8 J	1.9 J	1.7 U
Copper (dissolved)	µg/L	1.8 J	4.5 J	1.7 U	1.7 U
Iron	µg/L	3700	56 J	540	6900
Iron (dissolved)	µg/L	820	47 U	47 U	6700
Lead	µg/L	3.4	0.45 U	0.50 J	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	53000	37000	25000	55000
Magnesium (dissolved)	µg/L	48000	37000	24000	54000
Manganese	µg/L	2600	2.5 J	53	100
Manganese (dissolved)	µg/L	2400	2.1 U	46	100
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	26	1.5 U	1.5 J	2.1
Nickel (dissolved)	µg/L	22	1.5 U	1.5 U	1.5 U
Potassium	µg/L	12000	8300	6300	15000
Potassium (dissolved)	µg/L	11000	8300	6200	15000
Selenium	µg/L	0.89 U	1.8 J	0.89 U	0.89 U
Selenium (dissolved)	µg/L	0.89 U	1.9 J	0.89 U	0.89 U

Table 2

Analytical Results Summary
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Location ID:		**MW-230**	**MW-233**	**MW-234**	**MW-235**
Sample Name:		**GW-38443-101718-JC-221**	**GW-38443-101818-AS-225**	**GW-38443-101618-AS-216**	**GW-38443-101818-AS-224**
Sample Date:		**10/17/2018**	**10/18/2018**	**10/16/2018**	**10/18/2018**
Parameters	**Unit**				
Metals					
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	68000	28000	25000	78000
Sodium (dissolved)	µg/L	65000	28000	24000	76000
Thallium	µg/L	0.70 J	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.57 J	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	5.3	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	26	15 U	15 U	15 U
Zinc (dissolved)	µg/L	15 U	15 U	15 U	15 U
General Chemistry					
Cyanide (total)	mg/L	0.0060 U	0.0060 U	0.0060 U	0.028
Chloride	µg/L	120000	36000	33000	100000
Nitrate (as N)	µg/L	14 U	1300	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	15000	46000	26000	76000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
R - Rejected

Table 3

Analytical Methods
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Fumigants	SW-846 8011	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Water	7	40
Herbicides	SW-846 8151A	Water	7	40
Select Metals (Total & Dissolved)	SW-846 6020	Water	-	180
Mercury (Total & Dissolved)	SW-846 7470A	Water	-	28
Cyanide	SW-846 9012A	Water	-	14
Anions	EPA 300.0	Water	-	28 48 hours-Nitrate & Nitrite

Notes:

SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent revisions
EPA - "Methods for Chemical Analysis of Water and Wastes," EPA-600/4-79-020, March 1983 (with all subsequent revisions).
\- - Not applicable

Table 4

Qualified Sample Results Due to Outlying Continuing Calibration Results
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Chloroethane	10/24/2018	73	GW-38443-101618-AS-214	0.83 UJ	µg/L
				GW-38443-101618-AS-215	0.83 UJ	µg/L
				GW-38443-101618-AS-216	0.83 UJ	µg/L
VOCs	Trifluorotrichloroethane (CFC-113)	10/24/2018	58	GW-38443-101618-AS-214	0.41 UJ	µg/L
				GW-38443-101618-AS-215	0.41 UJ	µg/L
				GW-38443-101618-AS-216	0.41 UJ	µg/L

Notes:

-- - Not applicable
%D - Percent difference
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 5

Qualified Sample Results Due to Outlying MS/MSD Results
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Parameter	Sample ID	Analyte	MS % Recovery	MSD % Recovery	RPD (percent)	Control Limits % Recovery	Control Limits RPD	Qualified Result	Units
SVOCs	GW-38443-101718-JC-217	3,3'-Dichlorobenzidine	0	0	NC	10-120	35	R	µg/L
		bis(2-Ethylhexyl)phthalate (DEHP)	-30	-37	7	15-120	35	28.0 J	µg/L

Notes:

J - Estimated concentration
MS - Matrix Spike
MSD - Matrix Spike Duplicate
R - Rejected
RPD - Relative Percent Difference
SVOCs - Semi-volatile Organic Compounds
NC - Not Calculated (or no concentration)

Table 6

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	10/17/2018	cis-1,2-Dichloroethene	2.0	GW-38443-101718-AS-220	2.6	2.6 U	µg/L
				GW-38443-101718-JC-221	0.43 J	2.0 U	µg/L
VOCs	10/17/2018	Trichloroethene	3.7	GW-38443-101718-AS-218	0.20 J	3.7 U	µg/L

Notes:

J - Estimated concentration
U - Not detected at the associated reporting limit
VOCs - Volatile Organic Compounds

Table 7

Qualified Sample Data Due to Variability in Field Duplicate Results
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Parameter	Analyte	RPD	Diff	Sample ID	Qualified Result	Field Duplicate Sample ID	Qualified Result	Units
Metals	Aluminum	88	500	GW-38443-101718-AS-218	820 J	GW-38443-101718-AS-219	320 J	µg/L

Notes:

Diff - Difference (>1X RL for waters)
RPD - Relative Percent Difference
J - Estimated concentration

Table 8

Qualified Sample Data Due to Discrepancy Between Total and Dissolved Results
Monitoring Wells Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
October 2018

Parameter	Sample ID	Analyte	%D	Criteria (percent)	Qualified Total Result	Qualified Dissolved Result	Units
Metals	GW-38443-101818-AS-225	Copper	150	20	1.8 J	4.5 J	µg/L

Notes:

%D - Percent Difference
J - Estimated concentration

Memorandum

May 1, 2019

To:	Julian Hayward	Ref. No.:	038443-370
From:	Angela Bown/cs/53-NF	Tel:	513-942-4750
CC:	Brent Ramdial, Valerie Chan		

Subject: **Analytical Results and Full Validation**
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

1. Introduction

This document details a validation of analytical results for water samples collected in support of the Vertical Aquifer Sampling Event at the Moraine, Ohio site during January and February 2019. Samples were submitted to TestAmerica Laboratories, Inc. (TA) located in North Canton, Ohio. A sample collection and analysis summary is presented in Table 1. The validated analytical results are summarized in Table 2. A summary of the analytical methodology is presented in Table 3.

Full Contract Laboratory Program (CLP) equivalent raw data deliverables were provided by the laboratory. Evaluation of the data was based on information obtained from the finished data sheets, raw data, chain of custody forms, calibration data, blank data, duplicate data, recovery data from surrogate spikes/laboratory control samples (LCS)/matrix spike (MS) samples and field quality assurance/quality (QA/QC) samples. The assessment of analytical and in-house data included checks for data consistency (by observing comparability of duplicate analyses), adherence to accuracy and precision criteria, and transmittal errors.

The QA/QC criteria by which these data have been assessed are outlined in the analytical methods referenced in Table 3 and applicable guidance from the documents entitled:

i) "Remedial Investigation/Feasibility Study (RI/FS) Work Plan for Operable Units 1 and 2, Appendix E – Quality Assurance Project Plan", September 20, 2017

ii) "USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review", USEPA 540-R-10-011, January 2010

iii) "USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review", USEPA 540-R-08-01, June 2008

Items ii) and iii) will subsequently be referred to as the "Guidelines" in this Memorandum.

2. Sample Holding Time and Preservation

The sample holding time criteria for the analyses are summarized in Table 3. Sample chain of custody documents and analytical reports were used to determine sample holding times. Most samples were prepared and analyzed within the required holding times. Table 4 presents the sample results that were qualified or rejected (non-detect results greater than 2 times outside of holding time criteria) due to holding time exceedances.

All samples were properly preserved, delivered on ice, and stored by the laboratory at the required temperature (0-6°C).

3. Gas Chromatography/Mass Spectrometer (GC/MS) – Tuning and Mass Calibration (Instrument Performance Check) and Inductively Coupled Plasma/Mass Spectrometer (ICP/MS)

3.1 Organic Analyses

Prior to volatile organic compound (VOC) and semi-volatile organic compound (SVOC) analysis, GC/MS instrumentation is tuned to ensure optimization over the mass range of interest. To evaluate instrument tuning, methods require the analysis of specific tuning compounds bromofluorobenzene (BFB) and decafluorotriphenylphosphine (DFTPP), respectively. The resulting spectra must meet the criteria cited in the methods before analysis is initiated. Analysis of the tuning compound must then be repeated every 12 hours throughout sample analysis to ensure the continued optimization of the instrument.

Tuning compounds were analyzed at the required frequency throughout VOC and SVOC analysis periods. All tuning criteria were met indicating that proper optimization of the instrumentation was achieved.

3.2 Inorganic Analyses

To ensure adequate mass resolution, identification, and to some degree, sensitivity, the performance of each ICP/MS instrument used for metals analyses is checked prior to calibration and initiating an analysis sequence through the analysis of a tuning solution.

Instrument performance check data were reviewed. The tuning solution was analyzed at the required frequency throughout the analyses. The results of all instrument performance checks were within the method acceptance criteria, indicating that proper optimization of the instrumentation was achieved.

4. Initial Calibration - Organic Analyses

4.1 GC/MS

To quantify VOCs and SVOCs of interest in samples, calibration of the GC/MS over a specific concentration range must be performed. Initially, a five-point calibration curve containing all compounds of interest is analyzed to characterize instrument response for each analyte over a specific concentration range. Linearity of the calibration curve and instrument sensitivity are evaluated against the following criteria:

i) All relative response factors (RRFs) must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) The percent relative standard deviation (%RSD) values must not exceed 20.0 percent (40.0 percent for compounds that exhibit poor response) or a minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

The initial calibration data for VOCs and SVOCs were reviewed. All compounds met the above criteria for sensitivity and linearity.

4.2 GC

To quantify pesticides, the performance evaluation mixture (PEM) is analyzed at the beginning and end of the initial calibration sequence and throughout the analytical sequence. The results of these analyses are used to evaluate dichlorodiphenyltrichloroethane (DDT)/endrin breakdown, using the method degradation criteria of <15 percent. PEM standards were analyzed at the required frequency throughout sample analysis and all method performance criteria were met.

4.2.1 Internal Standard Calibration – PCBs and Organochlorine Pesticides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Polychlorinated biphenyls (PCBs) and organochlorine pesticides were calibrated with a dual column analysis using internal standardization. Five peaks, representing five congeners, were used for the analysis of each Aroclor with a separate curve fitted to the calibration data for each congener. A calibration curve consisting of a minimum of five concentration levels was analyzed for all single component compounds of interest. Linearity of the calibration curves are evaluated against the following criteria:

i) The percent relative standard deviation (%RSD) values of the response factors must not exceed 20.0 percent

ii) A minimum correlation coefficient (R) and minimum coefficient of determination (R^2) of 0.995 and 0.99, respectively, if linear and quadratic equation calibration curves are used

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

4.2.2 External Standard Calibration – Fumigants and Herbicides

In order to quantify organic compounds of interest by GC, calibration of the gas chromatograph over a specific concentration range must be performed. Initially, a calibration curve consisting of a minimum of five concentration levels is analyzed for all single component compounds of interest. Linearity of the calibration curve is acceptable if all RSD values are less than or equal to 20.0 percent or if the coefficient of determination (R^2) is 0.990 or greater for linear regression curves.

Retention time windows are also calculated from the initial calibration analyses. These windows are then used to identify all compounds of interest in subsequent analyses.

All initial calibration standards were analyzed at the required frequencies. All retention time, peak resolution, and linearity criteria were satisfied as specified in the method.

5. Initial Calibration – Inorganic Analyses

Initial calibration of the instruments ensures that they are capable of producing satisfactory quantitative data at the beginning of a series of analyses. For ICP/MS analysis, a calibration blank and at least one standard must be analyzed at each wavelength to establish the analytical curve. For mercury atomic absorption (AA) analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater. For instrumental general chemistry analyses, a calibration blank and a minimum of five standards must be analyzed to establish the analytical curve, and resulting correlation coefficients (R) must be 0.995 or greater.

After the analyses of the calibration curves, an initial calibration verification (ICV) standard must be analyzed to verify the analytical accuracy of the calibration curves. All analyte recoveries from the analyses of the ICVs must be within the following control limits:

Analytical Method	Parameter	Control Limits
ICP/MS	Metals	90 - 110%
Cold Vapor AA	Mercury	80 - 120%
Instrumental Wet Chemistry	Cyanide and Anions	85 - 115% or laboratory established limits

Upon review of the data, it was determined that the calibration curves and ICVs were analyzed at the proper frequencies and that all of the above-specified criteria were met. The laboratory effectively demonstrated that the instrumentation used for metals and general chemistry analyses were properly calibrated prior to sample analysis.

6. Continuing Calibration - Organic Analyses

6.1 GC/MS

To ensure that instrument calibration for VOC and SVOC analyses is acceptable throughout the sample analysis period, continuing calibration standards must be analyzed and compared to the initial calibration curve every 12 hours.

The following criteria were employed to evaluate continuing calibration data:

i) All RRF values must be greater than or equal to 0.050 (greater than or equal to 0.010 for compounds that exhibit poor response)

ii) Percent difference (%D) values must not exceed 25.0 percent (40.0 percent for compounds that exhibit poor response)

Calibration standards were analyzed at the required frequency, and the results met the above criteria for instrument sensitivity and stability with the exception of the sample results presented with qualifiers in Table 5.

6.2 GC

To ensure that the calibration of the instrument for organic analyses by GC is valid throughout the sample analysis period, continuing calibration standards are analyzed and evaluated on a regular basis. To evaluate the continued linearity of the calibration, %D values are calculated for each compound. As specified in the methods, all %D values should not exceed 15% (20%D for herbicides and organochlorine pesticides). To ensure that compound retention times do not vary over the analysis period, all retention times for continuing calibration compounds must fall within the established retention time windows.

All continuing calibration standards were analyzed at the required frequency. All %D values and compound retention times met the above criteria indicating acceptable instrument calibration throughout the analysis period.

7. Continuing Calibration - Inorganic Analyses

To ensure that instrument calibration is acceptable throughout the sample analysis period, continuing calibration verification (CCV) standards are analyzed on a regular basis. Each CCV is deemed acceptable if all analyte recoveries are within the control limits specified above for the ICVs. If some of the CCV analyte recoveries are outside the control limits, samples analyzed before and after the CCV, up until the previous and proceeding CCV analyses, are affected.

For this study, CCVs were analyzed at the proper frequency. All analyte recoveries reported for the CCVs were within the specified limits.

8. Laboratory Blank Analyses

Method blanks are prepared from a purified matrix and analyzed with investigative samples to determine the existence and magnitude of sample contamination introduced during the analytical procedures. Additionally, initial and continuing calibration blanks (ICBs/CCBs) are routinely analyzed after each ICV/CCV for the inorganic parameters.

For this study, laboratory method blanks were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

8.1 Organic Analyses

All method blank results were non-detect, indicating that laboratory contamination was not a factor for this investigation.

8.2 Inorganic Analyses

ICBs, CCBs, and method blanks were analyzed for all inorganic parameters. Nitrite as nitrogen (N) was detected in one method blank. Table 6 presents the sample results that were qualified due to analyte concentrations in the method blank sample. The remaining blank samples were non-detect for the analytes of interest.

9. Surrogate Spike Recoveries

In accordance with the methods employed, all samples, blanks, and QC samples analyzed for organics are spiked with surrogate compounds prior to sample extraction and/or analysis. Surrogate recoveries provide a means to evaluate the effects of laboratory performance on individual sample matrices.

All samples submitted for organic determinations were spiked with the appropriate number of surrogate compounds prior to sample extraction and/or analysis.

Each individual surrogate compound is expected to meet the laboratory control limits with the exception of SVOC analyses. According to the "Guidelines" for SVOC analyses, up to one outlying surrogate in the base/neutral or acid fractions is acceptable as long as the recovery is at least 10 percent.

Surrogate recoveries were assessed against laboratory control limits. All surrogate recoveries were within the laboratory criteria with the exception of one sample for herbicide analysis. Table 7 presents the sample results that were qualified due to outlying surrogate recoveries.

10. Internal Standards (IS) Analyses

IS data were evaluated for all VOC, SVOC, PCB, Pesticide, and ICP/MS metals sample analyses.

10.1 Organics Analyses

To ensure that changes in the GC/MS and GC sensitivity and response do not affect sample analysis results IS compounds are added to each sample prior to analysis. All results are then calculated as a ratio of the IS responses.

The sample IS results were evaluated against the following criteria:

i) The retention time of the IS must not vary more than ±30 seconds from the associated calibration standard

ii) IS area counts must not vary by more than a factor of two (-50 percent to +100 percent) from the associated calibration standard

All organic IS recoveries and retention times met the above criteria.

10.2 Inorganic Analyses

IS elements were added to all samples prior to metals analysis by ICP/MS. Overall instrument stability and performance for metals analyses were monitored using the IS intensity data. IS recoveries were assessed using control limits of 60-125 percent.

All inorganic IS recoveries were within the acceptance limits.

11. Laboratory Control Sample Analyses

LCS or LCS/laboratory control sample duplicates (LCSD) are prepared and analyzed as samples to assess the analytical efficiencies of the methods employed, independent of sample matrix effects. The relative percent difference (RPD) of the LCS/LCSD recoveries is used to evaluate analytical precision.

High LCS/LCSD recoveries and/or RPDs do not affect the associated non-detect sample results.

For this study, LCS or LCS/LCSD were analyzed at a minimum frequency of 1 per 20 investigative samples and/or 1 per analytical batch.

11.1 Organic Analyses

The LCS or LCS/LCSD contained all compounds of interest or the compounds specified in the method. All LCS recoveries and RPDs were within the laboratory control limits demonstration acceptable analytical accuracy and precision.

11.2 Inorganic Analyses

The LCS or LCS/LCSD contained all analytes of interest. LCS recoveries were assessed per the "Guidelines". All LCS recoveries and RPDs were within the control limits demonstrating acceptable analytical accuracy and precision.

12. Matrix Spike/Matrix Spike Duplicate (MS/MSD) Analyses

To evaluate the effects of sample matrices on the preparation process, measurement procedures, and accuracy of a particular analysis, samples are spiked with a known concentration of the analyte of concern and analyzed as MS/MSD samples. The RPD between the MS and MSD is used to assess analytical precision.

If the original sample concentration is significantly greater than the spike concentration, the recovery is not assessed.

If only the MS or MSD recovery was outside of control limits, no qualification of the data were performed based on the acceptable recovery of the companion spike and the acceptable RPD. High MS/MSD recoveries and/or RPDs do not affect the associated non-detect sample results.

MS/MSD analyses were performed as specified in Table 1.

12.1 Organic Analyses

The MS/MSD samples were spiked with all compounds of interest or the compounds specified in the method. All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

12.2 Inorganic Analyses

The MS or MS/MSD samples were spiked with the analytes of interest, and the results were evaluated using the "Guidelines". All percent recoveries and RPD values, if applicable, were within the laboratory control limits, or did not warrant qualifications, and demonstrated acceptable analytical accuracy and precision.

13. ICP/MS Serial Dilution

The serial dilution determines whether significant physical or chemical interferences exist due to sample matrix. A minimum of 1 per 20 investigative samples or at least 1 per analytical batch must be analyzed at a five-fold dilution. For samples with sufficient analyte concentrations (>50 times the method detection limit), the serial dilution results must agree within 10 percent of the original results.

A serial dilution was performed on each MS/MSD sample. All results met the criteria above.

14. ICP Interference Check Sample Analysis (ICS)

To verify that the laboratory has established proper inter-element and background correction factors, ICSs are analyzed. These samples contain high concentrations of aluminum, calcium, magnesium, and iron and are analyzed at the beginning and end of each sample analysis period. The ICSs are evaluated against recovery control limits in the "Guidelines" of 80 to 120 percent.

ICS analysis results were evaluated for all samples using the criteria in the "Guidelines". All ICS recoveries and results were acceptable.

15. Field QA/QC Samples

The field QA/QC consisted of seven trip blank samples and two field duplicate sample sets.

15.1 Trip Blank Sample Analysis

To evaluate contamination from sample collection, transportation, storage, and analytical activities, seven trip blanks were submitted to the laboratory for VOC analysis. Acetone and cis-1,2-dichloroethene were detected in the trip blank samples. Most associated sample results were non-detect or were significantly greater than the trip blank results and were not impacted. Table 8 presents the sample result that was qualified as non-detect due to analyte concentration in the trip blank sample.

15.2 Field Duplicate Sample Analysis

To assess the analytical and sampling protocol precision, two field duplicate sample sets were collected and submitted "blind" to the laboratory, as specified in Table 1. The RPDs associated with these duplicate samples must be less than 50 percent for water samples. If the reported concentration in either the investigative sample or its duplicate is less than five times the reporting limit (RL), the evaluation criterion is one times the RL value for water samples.

All field duplicate results were within acceptable agreement demonstrating acceptable sampling and analytical precision.

16. Total versus Dissolved Results

Most dissolved metals results were less than the total results or were within the normal variability of the method (20%D).

17. Analyte Reporting

The laboratory reported detected results down to the laboratory's method detection limit (MDL) for each analyte adjusted for specific sample dilutions and volumes. Positive analyte detections less than the RL but greater than the sample-specific MDL were qualified as estimated (J) in Table 2 unless qualified otherwise in this memorandum. Non-detect results were presented as non-detect at the sample specific MDL in Table 2.

18. Target Compound Identification

To minimize erroneous compound identification during organic analyses, qualitative criteria including compound retention time and mass spectra (if applicable) were evaluated according to the identification criteria established by the methods. The samples identified in Table 1 were reviewed. The organic compounds reported adhered to the specified identification criteria.

Pesticide and PCB analyses were performed using dual column analyses. All results showed good correlation between the two columns (<40 RPD).

19. Conclusion

Based on the assessment detailed in the foregoing, the data summarized in Table 2 are acceptable with the specific qualifications and exceptions noted herein.

Table 1

Sample Collection and Analysis Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

							Analysis/Parameters									
Sample Identification	**Location**	**Start Depth (ft bgs)**	**End Depth (ft bgs)**	**Matrix**	**Collection Date (mm/dd/yyyy)**	**Collection Time (hr:min)**	**VOCs**	**Fumigants**	**SVOCs**	**Pesticides**	**PCBs**	**Herbicides**	**Total & Dissolved Metals**	**Anions**	**Total Cyanide**	**Comments**
GW-38443-011419-JC-001	BH18-19	14.5	18.5	Water	01/14/2019	12:10	X	X	X	X	X	X	X	X	X	MS/MSD
GW-38443-011419-JC-002	BH18-19	14.5	18.5	Water	01/14/2019	12:20	X	X	X	X	X	X	X	X	X	FD(GW-38443-011419-JC-001)
GW-38443-011419-JC-003	BH19-19	15	19	Water	01/14/2019	15:00	X	X	X	X	X	X	X	X	X	
GW-38443-012219-JC-214	VAS-39	5	10	Water	01/22/2019	15:00	X	X	X	X	X		X	X	X	
GW-38443-012319-JC-215	VAS-39	10	15	Water	01/23/2019	10:25	X	X					X	X		
GW-38443-012319-JC-216	VAS-39	15	20	Water	01/23/2019	12:00	X	X					X	X		
GW-38443-012319-JC-217	VAS-39	20	25	Water	01/23/2019	13:45	X	X					X	X		
GW-38443-012319-JC-218	VAS-39	25	30	Water	01/23/2019	15:00	X	X	X	X	X		X	X	X	
GW-38443-012919-JC-219	VAS-39	30	40	Water	01/29/2019	16:30	X	X					X	X		MS/MSD
GW-38443-012919-JC-220	VAS-39	30	40	Water	01/29/2019	16:40	X	X					X	X		FD(GW-38443-012919-JC-219)
GW-38443-020419-JC-221	VAS-39	40	50	Water	02/04/2019	14:25	X	X					X	X		MS/MSD
GW-38443-020519-JC-222	VAS-39	60	70	Water	02/05/2019	10:10	X	X					X	X		MS/MSD
GW-38443-020519-JC-223	VAS-39	70	80	Water	02/05/2019	12:15	X	X					X	X		
GW-38443-020519-JC-224	VAS-39	80	90	Water	02/05/2019	16:00	X	X					X	X		
GW-38443-022019-JC-225	VAS-39	90	100	Water	02/20/2019	11:00	X	X					X	X	X	MS/MSD
TB-38443-011419-JC-001	-	-	-	Water	01/14/2019	00:00	X	X								Trip Blank
TB-38443-012219-JC-001	-	-	-	Water	01/22/2019	00:00	X	X								Trip Blank
TB-38443-012319-JC-002	-	-	-	Water	01/23/2019	00:00	X	X								Trip Blank
TB-38443-012919-JC-003	-	-	-	Water	01/29/2019	00:00	X	X								Trip Blank
TB-38443-020419-JC-004	-	-	-	Water	02/04/2019	00:00	X	X								Trip Blank
TB-38443-020519-JC-005	-	-	-	Water	02/05/2019	00:00	X	X								Trip Blank
TB-38443-021919-JC-006	-	-	-	Water	02/20/2019	00:00	X	X								Trip Blank

Notes:

FD - Field Duplicate sample of sample in parenthesis
MS/MSD - Matrix Spike/Matrix Spike Duplicate
VOCs - Volatile Organic Compounds
SVOCs - Semi-volatile Organic Compounds
PCBs - Polychlorinated Biphenyls
ft bgs - Feet below ground surface
-- - Not applicable

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**BH18-19**	**BH18-19**	**BH19-19**	**VAS-39**
Sample Name:		**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**GW-38443-012219-JC-214**
Sample Date:		**01/14/2019**	**01/14/2019**	**01/14/2019**	**01/22/2019**
Depth:		**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS Duplicate**	**15-19 ft BGS**	**5-10 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.42 J	0.50 J	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 UJ
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 UJ	0.76 UJ	0.76 UJ	0.76 UJ
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.15 J
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
Volatile Organic Compounds, BTEX					

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

	Location ID:	BH18-19	BH18-19	BH19-19	VAS-39
	Sample Name:	GW-38443-011419-JC-001	GW-38443-011419-JC-002	GW-38443-011419-JC-003	GW-38443-012219-JC-214
	Sample Date:	01/14/2019	01/14/2019	01/14/2019	01/22/2019
	Depth:	14.5-18.5 ft BGS	14.5-18.5 ft BGS Duplicate	15-19 ft BGS	5-10 ft BGS
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 UJ
Toluene	µg/L	0.14 U	0.14 U	0.14 J	0.22 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 J
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.53 U	0.54 U	0.56 U	0.53 U
2,4,5-Trichlorophenol	µg/L	1.9 U	1.9 U	2.0 U	1.9 U
2,4,6-Trichlorophenol	µg/L	1.7 U	1.8 U	1.8 U	1.7 U
2,4-Dichlorophenol	µg/L	0.25 U	0.26 U	0.26 U	0.25 U
2,4-Dimethylphenol	µg/L	0.50 U	0.51 U	0.52 U	0.50 U
2,4-Dinitrophenol	µg/L	6.0 U	6.1 U	6.3 U	6.0 U
2,4-Dinitrotoluene	µg/L	2.0 U	2.0 U	2.1 U	2.0 U
2,6-Dinitrotoluene	µg/L	2.1 U	2.1 U	2.1 U	2.0 U
2-Chloronaphthalene	µg/L	0.47 U	0.47 U	0.49 U	0.46 U
2-Chlorophenol	µg/L	0.27 U	0.27 U	0.28 U	0.26 U
2-Methylnaphthalene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
2-Methylphenol	µg/L	0.20 U	0.20 U	0.21 U	0.20 U
2-Nitroaniline	µg/L	0.50 U	0.50 U	0.52 U	0.49 U
2-Nitrophenol	µg/L	0.55 U	0.55 U	0.57 U	0.54 U
3&4-Methylphenol	µg/L	0.19 U	0.19 U	0.19 U	0.18 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	1.1 U	1.2 U	1.1 U
3-Nitroaniline	µg/L	0.55 U	0.55 U	0.57 U	0.54 U
4,6-Dinitro-2-methylphenol	µg/L	2.7 U	2.8 U	2.8 U	2.7 U
4-Bromophenyl phenyl ether	µg/L	0.48 U	0.49 U	0.50 U	0.48 U
4-Chloro-3-methylphenol	µg/L	0.29 U	0.29 U	0.30 U	0.28 U
4-Chloroaniline	µg/L	0.31 U	0.31 U	0.32 U	0.30 U
4-Chlorophenyl phenyl ether	µg/L	0.53 U	0.54 U	0.56 U	0.53 U
4-Nitroaniline	µg/L	0.89 U	0.90 U	0.93 U	0.88 U
4-Nitrophenol	µg/L	2.1 U	2.1 U	2.2 U	2.1 U
Acenaphthene	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Acenaphthylene	µg/L	0.12 U	0.12 U	0.13 U	0.12 U
Semivolatile Organic Compounds					
Acetophenone	µg/L	0.36 U	0.36 U	0.37 U	0.35 U

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**BH18-19**	**BH18-19**	**BH19-19**	**VAS-39**
Sample Name:		**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**GW-38443-012219-JC-214**
Sample Date:		**01/14/2019**	**01/14/2019**	**01/14/2019**	**01/22/2019**
Depth:		**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS Duplicate**	**15-19 ft BGS**	**5-10 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	0.13 U	0.13 U	0.14 U	0.13 U
Atrazine	µg/L	0.92 U	0.93 U	0.96 U	0.92 U
Benzaldehyde	µg/L	0.74 U	0.74 U	0.77 U	0.73 U
Benzo(a)anthracene	µg/L	0.17 U	0.17 U	0.17 U	0.24
Benzo(a)pyrene	µg/L	0.17 U	0.17 U	0.17 U	0.36
Benzo(b)fluoranthene	µg/L	0.15 U	0.15 U	0.16 U	0.42
Benzo(g,h,i)perylene	µg/L	0.17 U	0.17 U	0.18 U	0.31
Benzo(k)fluoranthene	µg/L	0.14 U	0.14 U	0.14 U	0.16 J
Biphenyl (1,1-Biphenyl)	µg/L	0.48 U	0.48 U	0.50 U	0.47 U
bis(2-Chloroethoxy)methane	µg/L	0.44 U	0.45 U	0.46 U	0.44 U
bis(2-Chloroethyl)ether	µg/L	0.39 U	0.39 U	0.41 U	0.39 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.2 U	2.2 U	2.2 U	2.1 U
Butyl benzylphthalate (BBP)	µg/L	0.65 U	0.65 U	0.67 U	0.64 U
Caprolactam	µg/L	0.91 U	0.92 U	0.94 U	0.90 U
Carbazole	µg/L	0.48 U	0.48 U	0.49 U	0.47 U
Chrysene	µg/L	0.18 U	0.18 U	0.19 U	0.22
Di-n-butylphthalate (DBP)	µg/L	1.8 U	1.8 U	1.8 U	1.7 U
Di-n-octyl phthalate (DnOP)	µg/L	0.80 U	0.80 U	0.83 U	0.79 U
Dibenz(a,h)anthracene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Dibenzofuran	µg/L	0.54 U	0.55 U	0.57 U	0.54 U
Diethyl phthalate	µg/L	3.7 U	3.7 U	3.9 U	3.7 U
Dimethyl phthalate	µg/L	0.50 U	0.50 U	0.52 U	0.50 U
Fluoranthene	µg/L	0.16 U	0.16 U	0.16 U	0.45
Fluorene	µg/L	0.16 U	0.17 U	0.17 U	0.16 U
Hexachlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.15 U
Hexachlorobutadiene	µg/L	0.53 U	0.53 U	0.55 U	0.52 U
Hexachlorocyclopentadiene	µg/L	1.7 U	1.7 U	1.8 U	1.7 U
Hexachloroethane	µg/L	0.38 U	0.39 U	0.40 U	0.38 U
Indeno(1,2,3-cd)pyrene	µg/L	0.13 U	0.13 U	0.14 U	0.32
Isophorone	µg/L	0.31 U	0.32 U	0.33 U	0.31 U
N-Nitrosodi-n-propylamine	µg/L	0.25 U	0.25 U	0.26 U	0.24 U
N-Nitrosodiphenylamine	µg/L	0.43 U	0.43 U	0.44 U	0.42 U
Naphthalene	µg/L	0.11 U	0.11 U	0.11 U	0.10 U
Nitrobenzene	µg/L	0.50 U	0.50 U	0.52 U	0.49 U
Pentachlorophenol	µg/L	3.0 U	3.0 U	3.1 U	3.0 U
Phenanthrene	µg/L	0.16 U	0.16 U	0.17 U	0.26

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

	Location ID:	BH18-19	BH18-19	BH19-19	VAS-39
	Sample Name:	GW-38443-011419-JC-001	GW-38443-011419-JC-002	GW-38443-011419-JC-003	GW-38443-012219-JC-214
	Sample Date:	01/14/2019	01/14/2019	01/14/2019	01/22/2019
	Depth:	14.5-18.5 ft BGS	14.5-18.5 ft BGS Duplicate	15-19 ft BGS	5-10 ft BGS
Parameters	**Unit**				
Semivolatile Organic Compounds					
Phenol	µg/L	0.12 U	0.13 U	0.13 U	0.12 U
Pyrene	µg/L	0.17 U	0.17 U	0.18 U	0.37
Herbicides					
2,4,5-T	µg/L	0.57 UJ	0.57 U	R	--
2,4,5-TP (Silvex)	µg/L	0.43 UJ	0.43 U	R	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	2.2 UJ	2.2 U	R	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	0.054 U	0.055 U	0.054 U	0.054 U
Aroclor-1221 (PCB-1221)	µg/L	0.055 U	0.056 U	0.055 U	0.055 U
Aroclor-1232 (PCB-1232)	µg/L	0.071 U	0.073 U	0.072 U	0.071 U
Aroclor-1242 (PCB-1242)	µg/L	0.073 U	0.075 U	0.074 U	0.073 U
Aroclor-1248 (PCB-1248)	µg/L	0.048 U	0.049 U	0.049 U	0.39
Aroclor-1254 (PCB-1254)	µg/L	0.038 U	0.039 U	0.039 U	0.038 U
Aroclor-1260 (PCB-1260)	µg/L	0.044 U	0.045 U	0.045 U	0.082 J
Pesticides					
4,4'-DDD	µg/L	0.0051 U	0.0052 U	0.0051 U	0.0051 U
4,4'-DDE	µg/L	0.0041 U	0.0042 U	0.0042 U	0.0041 U
4,4'-DDT	µg/L	0.0046 U	0.0047 U	0.0047 U	0.0046 U
Aldrin	µg/L	0.0023 U	0.0024 U	0.0023 U	0.0023 U
alpha-BHC	µg/L	0.0019 U	0.0020 U	0.0019 U	0.0019 U
alpha-Chlordane	µg/L	0.0031 U	0.0031 U	0.0031 U	0.0031 U
beta-BHC	µg/L	0.0044 U	0.0045 U	0.0045 U	0.0044 U
delta-BHC	µg/L	0.0041 U	0.0042 U	0.0042 U	0.0041 U
Dieldrin	µg/L	0.0022 U	0.0023 U	0.0022 U	0.0022 U
Endosulfan I	µg/L	0.0036 U	0.0036 U	0.0036 U	0.0036 U
Endosulfan II	µg/L	0.0022 U	0.0023 U	0.0022 U	0.0022 U
Endosulfan sulfate	µg/L	0.0036 U	0.0036 U	0.0036 U	0.0036 U
Endrin	µg/L	0.0024 U	0.0025 U	0.0024 U	0.0024 U
Endrin aldehyde	µg/L	0.0044 U	0.0045 U	0.0045 U	0.0044 U
Endrin ketone	µg/L	0.0038 U	0.0039 U	0.0039 U	0.0038 U
gamma-BHC (lindane)	µg/L	0.0024 U	0.0025 U	0.0024 U	0.0024 U
gamma-Chlordane	µg/L	0.0048 U	0.0049 U	0.0049 U	0.0048 U
Heptachlor	µg/L	0.0032 U	0.0032 U	0.0032 U	0.0032 U
Heptachlor epoxide	µg/L	0.0025 U	0.0025 U	0.0025 U	0.0025 U
Methoxychlor	µg/L	0.0045 U	0.0046 U	0.0046 U	0.0045 U
Toxaphene	µg/L	0.056 U	0.057 U	0.056 U	0.056 U

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**BH18-19**	**BH18-19**	**BH19-19**	**VAS-39**
Sample Name:		**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**GW-38443-012219-JC-214**
Sample Date:		**01/14/2019**	**01/14/2019**	**01/14/2019**	**01/22/2019**
Depth:		**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS Duplicate**	**15-19 ft BGS**	**5-10 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	80	36 J	190	6800
Aluminum (dissolved)	µg/L	34 U	34 U	44 J	1000
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.65 J
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	2.2 J	2.5 J	3.2 J	41
Arsenic (dissolved)	µg/L	2.2 J	2.7 J	2.8 J	19
Barium	µg/L	140	130	140	240
Barium (dissolved)	µg/L	130	140	140	160
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.35 J
Beryllium (dissolved)	µg/L	0.31 U	0.46 J	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.84 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.46 J
Calcium	µg/L	100000	100000	130000	120000
Calcium (dissolved)	µg/L	100000	110000	130000	100000
Chromium	µg/L	0.98 U	0.98 U	0.98 U	19
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	3.2
Cobalt	µg/L	0.19 U	0.19 U	0.46 J	6.0
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.42 J	3.7
Copper	µg/L	1.7 U	1.7 U	1.7 U	50
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 J	10
Iron	µg/L	130	79 J	350	26000
Iron (dissolved)	µg/L	47 U	47 U	140	13000
Lead	µg/L	0.45 U	0.45 U	0.45 U	54
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	9.4
Magnesium	µg/L	32000	30000	43000	26000
Magnesium (dissolved)	µg/L	30000	32000	43000	19000
Manganese	µg/L	7.9	5.7	33	1800
Manganese (dissolved)	µg/L	5.6	5.9	31	1600
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	1.8 J	14
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	5.4
Potassium	µg/L	5400	5100	6800	4500
Potassium (dissolved)	µg/L	5100	5400	6700	3200
Selenium	µg/L	2.8 J	2.7 J	3.0 J	1.1 J
Selenium (dissolved)	µg/L	2.6 J	3.1 J	3.3 J	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.30 J
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.059 J

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**BH18-19**	**BH18-19**	**BH19-19**	**VAS-39**
Sample Name:		**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**GW-38443-012219-JC-214**
Sample Date:		**01/14/2019**	**01/14/2019**	**01/14/2019**	**01/22/2019**
Depth:		**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS Duplicate**	**15-19 ft BGS**	**5-10 ft BGS**
Parameters	**Unit**				
Metals					
Sodium	µg/L	62000	58000	26000	15000
Sodium (dissolved)	µg/L	58000	62000	24000	15000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	17
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	2.6 J
Zinc	µg/L	15 U	15 U	15 U	440
Zinc (dissolved)	µg/L	15 U	15 U	15 U	310
General Chemistry					
Cyanide (total)	mg/L	0.0060 U	0.0060 U	0.0060 U	0.0060 U
Chloride	µg/L	84000	84000	35000	25000
Nitrate (as N)	µg/L	5900	6000	9400	130
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U
Sulfate	µg/L	29000	30000	34000	22000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**
Sample Date:		**01/23/2019**	**01/23/2019**	**01/23/2019**	**01/23/2019**
Depth:		**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.28 J	0.64 J
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.23 J
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.20 J	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.45 J	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.11 J	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
Volatile Organic Compounds, BTEX					

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**
Sample Date:		**01/23/2019**	**01/23/2019**	**01/23/2019**	**01/23/2019**
Depth:		**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.36 J	0.79 J	0.59 J	0.15 U
Toluene	µg/L	0.27 J	0.30 J	0.47 J	0.32 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.21 J	0.67 J	1.8
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	0.53 U
2,4,5-Trichlorophenol	µg/L	--	--	--	1.9 U
2,4,6-Trichlorophenol	µg/L	--	--	--	1.7 U
2,4-Dichlorophenol	µg/L	--	--	--	0.25 U
2,4-Dimethylphenol	µg/L	--	--	--	0.50 U
2,4-Dinitrophenol	µg/L	--	--	--	6.0 U
2,4-Dinitrotoluene	µg/L	--	--	--	2.0 U
2,6-Dinitrotoluene	µg/L	--	--	--	2.1 U
2-Chloronaphthalene	µg/L	--	--	--	0.47 U
2-Chlorophenol	µg/L	--	--	--	0.27 U
2-Methylnaphthalene	µg/L	--	--	--	0.11 U
2-Methylphenol	µg/L	--	--	--	0.20 U
2-Nitroaniline	µg/L	--	--	--	0.50 U
2-Nitrophenol	µg/L	--	--	--	0.55 U
3&4-Methylphenol	µg/L	--	--	--	0.19 U
3,3'-Dichlorobenzidine	µg/L	--	--	--	1.1 U
3-Nitroaniline	µg/L	--	--	--	0.55 U
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	2.7 U
4-Bromophenyl phenyl ether	µg/L	--	--	--	0.48 U
4-Chloro-3-methylphenol	µg/L	--	--	--	0.29 U
4-Chloroaniline	µg/L	--	--	--	0.31 U
4-Chlorophenyl phenyl ether	µg/L	--	--	--	0.53 U
4-Nitroaniline	µg/L	--	--	--	0.89 U
4-Nitrophenol	µg/L	--	--	--	2.1 U
Acenaphthene	µg/L	--	--	--	0.17 U
Acenaphthylene	µg/L	--	--	--	0.12 U
Semivolatile Organic Compounds					
Acetophenone	µg/L	--	--	--	0.36 U

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**
Sample Date:		**01/23/2019**	**01/23/2019**	**01/23/2019**	**01/23/2019**
Depth:		**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	0.13 U
Atrazine	µg/L	--	--	--	0.92 U
Benzaldehyde	µg/L	--	--	--	0.74 U
Benzo(a)anthracene	µg/L	--	--	--	0.17 U
Benzo(a)pyrene	µg/L	--	--	--	0.17 U
Benzo(b)fluoranthene	µg/L	--	--	--	0.15 U
Benzo(g,h,i)perylene	µg/L	--	--	--	0.17 U
Benzo(k)fluoranthene	µg/L	--	--	--	0.14 U
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	0.48 U
bis(2-Chloroethoxy)methane	µg/L	--	--	--	0.44 U
bis(2-Chloroethyl)ether	µg/L	--	--	--	0.39 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	2.2 U
Butyl benzylphthalate (BBP)	µg/L	--	--	--	0.65 U
Caprolactam	µg/L	--	--	--	0.91 U
Carbazole	µg/L	--	--	--	0.48 U
Chrysene	µg/L	--	--	--	0.18 U
Di-n-butylphthalate (DBP)	µg/L	--	--	--	1.8 U
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	0.80 U
Dibenz(a,h)anthracene	µg/L	--	--	--	0.15 U
Dibenzofuran	µg/L	--	--	--	0.54 U
Diethyl phthalate	µg/L	--	--	--	3.7 U
Dimethyl phthalate	µg/L	--	--	--	0.50 U
Fluoranthene	µg/L	--	--	--	0.16 U
Fluorene	µg/L	--	--	--	0.16 U
Hexachlorobenzene	µg/L	--	--	--	0.16 U
Hexachlorobutadiene	µg/L	--	--	--	0.53 U
Hexachlorocyclopentadiene	µg/L	--	--	--	1.7 U
Hexachloroethane	µg/L	--	--	--	0.38 U
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	0.13 U
Isophorone	µg/L	--	--	--	0.31 U
N-Nitrosodi-n-propylamine	µg/L	--	--	--	0.25 U
N-Nitrosodiphenylamine	µg/L	--	--	--	0.43 U
Naphthalene	µg/L	--	--	--	0.11 U
Nitrobenzene	µg/L	--	--	--	0.50 U
Pentachlorophenol	µg/L	--	--	--	3.0 U
Phenanthrene	µg/L	--	--	--	0.16 U

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**
Sample Date:		**01/23/2019**	**01/23/2019**	**01/23/2019**	**01/23/2019**
Depth:		**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Phenol	µg/L	--	--	--	0.12 U
Pyrene	µg/L	--	--	--	0.17 U
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	0.056 U
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	0.057 U
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	0.074 U
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	0.076 U
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	0.050 U
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	0.040 U
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	0.046 U
Pesticides					
4,4'-DDD	µg/L	--	--	--	0.0053 U
4,4'-DDE	µg/L	--	--	--	0.0043 U
4,4'-DDT	µg/L	--	--	--	0.0048 U
Aldrin	µg/L	--	--	--	0.0024 U
alpha-BHC	µg/L	--	--	--	0.0020 U
alpha-Chlordane	µg/L	--	--	--	0.0032 U
beta-BHC	µg/L	--	--	--	0.0046 U
delta-BHC	µg/L	--	--	--	0.0043 U
Dieldrin	µg/L	--	--	--	0.0023 U
Endosulfan I	µg/L	--	--	--	0.0037 U
Endosulfan II	µg/L	--	--	--	0.0023 U
Endosulfan sulfate	µg/L	--	--	--	0.0037 U
Endrin	µg/L	--	--	--	0.0025 U
Endrin aldehyde	µg/L	--	--	--	0.0046 U
Endrin ketone	µg/L	--	--	--	0.0040 U
gamma-BHC (lindane)	µg/L	--	--	--	0.0025 U
gamma-Chlordane	µg/L	--	--	--	0.0050 U
Heptachlor	µg/L	--	--	--	0.0033 U
Heptachlor epoxide	µg/L	--	--	--	0.0026 U
Methoxychlor	µg/L	--	--	--	0.0047 U
Toxaphene	µg/L	--	--	--	0.058 U

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**
Sample Date:		**01/23/2019**	**01/23/2019**	**01/23/2019**	**01/23/2019**
Depth:		**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	340	410	160000	810
Aluminum (dissolved)	µg/L	34 U	34 U	19000	34 U
Antimony	µg/L	0.57 U	0.57 U	3.9	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	1.1 J	0.57 U
Arsenic	µg/L	17	2.1 J	360	0.75 U
Arsenic (dissolved)	µg/L	1.6 J	0.75 U	43	0.75 U
Barium	µg/L	140	130	1900	110
Barium (dissolved)	µg/L	130	130	280	110
Beryllium	µg/L	0.31 U	0.31 U	8.5	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	1.2	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	3.6	0.21 U
Cadmium (dissolved)	µg/L	0.37 J	0.21 U	0.49 J	0.21 U
Calcium	µg/L	94000	83000	2300000	75000
Calcium (dissolved)	µg/L	90000	84000	280000	74000
Chromium	µg/L	0.98 U	0.98 U	290	1.6 J
Chromium (dissolved)	µg/L	0.98 U	0.98 U	34	0.98 U
Cobalt	µg/L	0.58 J	0.65 J	120	1.9
Cobalt (dissolved)	µg/L	0.41 J	0.42 J	15	1.5
Copper	µg/L	2.9	2.1	420	2.1
Copper (dissolved)	µg/L	1.7 U	1.7 U	53	1.7 U
Iron	µg/L	5000	1200	500000	970
Iron (dissolved)	µg/L	540	74 J	51000	80 J
Lead	µg/L	4.1	1.7	290	1.0
Lead (dissolved)	µg/L	1.5	0.60 J	28	0.45 U
Magnesium	µg/L	25000	24000	820000	23000
Magnesium (dissolved)	µg/L	23000	24000	98000	22000
Manganese	µg/L	670	250	7300	130
Manganese (dissolved)	µg/L	600	240	1000	120
Mercury	µg/L	0.13 U	0.13 U	0.35	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	2.2	1.6 J	370	3.4
Nickel (dissolved)	µg/L	1.5 J	1.5 U	39	2.3
Potassium	µg/L	4100	4300	46000	4500
Potassium (dissolved)	µg/L	3900	4200	11000	4200
Selenium	µg/L	0.89 U	0.89 U	19	0.89 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	2.5 J	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.96 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.11 J	0.053 U

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**
Sample Date:		**01/23/2019**	**01/23/2019**	**01/23/2019**	**01/23/2019**
Depth:		**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**
Parameters	**Unit**				
Metals					
Sodium	µg/L	20000	20000	23000	20000
Sodium (dissolved)	µg/L	20000	21000	21000	20000
Thallium	µg/L	0.20 U	0.20 U	4.5	0.23 J
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.64 J	0.21 J
Vanadium	µg/L	0.91 J	0.91 J	370	1.6 J
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	44	0.82 U
Zinc	µg/L	490	420	1600	340
Zinc (dissolved)	µg/L	460	390	190	290
General Chemistry					
Cyanide (total)	mg/L	--	--	--	0.0060 U
Chloride	µg/L	27000	26000	29000	31000
Nitrate (as N)	µg/L	680	2300	1900	250
Nitrite (as N)	µg/L	14 U	41 J	37 J	25 J
Sulfate	µg/L	25000	30000	31000	30000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-020519-JC-222**
Sample Date:		**01/29/2019**	**01/29/2019**	**02/04/2019**	**02/05/2019**
Depth:		**30-40 ft BGS**	**30-40 ft BGS**	**40-50 ft BGS**	**60-70 ft BGS**
			Duplicate		
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.79 J	0.82 J	0.37 J	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.27 J	0.27 J	0.27 J	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.17 J	0.14 J	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 UJ	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.20 J
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 UJ	1.7 UJ	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
Volatile Organic Compounds, BTEX					

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-020519-JC-222**
Sample Date:		**01/29/2019**	**01/29/2019**	**02/04/2019**	**02/05/2019**
Depth:		**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**40-50 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.26 J	0.29 J	0.28 J	1.1
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	2.7	2.8	2.4	0.44 J
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Semivolatile Organic Compounds					
Acetophenone	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-020519-JC-222**
Sample Date:		**01/29/2019**	**01/29/2019**	**02/04/2019**	**02/05/2019**
Depth:		**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**40-50 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-020519-JC-222**
Sample Date:		**01/29/2019**	**01/29/2019**	**02/04/2019**	**02/05/2019**
Depth:		**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**40-50 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-020519-JC-222**
Sample Date:		**01/29/2019**	**01/29/2019**	**02/04/2019**	**02/05/2019**
Depth:		**30-40 ft BGS**	**30-40 ft BGS**	**40-50 ft BGS**	**60-70 ft BGS**
			Duplicate		
Parameters	**Unit**				
Metals					
Aluminum	µg/L	170000	170000	3400	4200
Aluminum (dissolved)	µg/L	33000	35000	880	330
Antimony	µg/L	5.5	5.7	0.57 U	0.57 U
Antimony (dissolved)	µg/L	1.8 J	1.8 J	0.57 U	0.57 U
Arsenic	µg/L	220	200	2.8 J	7.4
Arsenic (dissolved)	µg/L	33	33	0.90 J	4.8 J
Barium	µg/L	2500	2300	160	270
Barium (dissolved)	µg/L	410	440	140	240
Beryllium	µg/L	12	12	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	3.0	2.5	0.31 U	0.48 J
Cadmium	µg/L	4.4	4.0	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.78 J	0.66 J	0.21 U	0.21 U
Calcium	µg/L	3000000	2600000	120000	130000
Calcium (dissolved)	µg/L	400000	450000	100000	100000
Chromium	µg/L	510	480	11	16
Chromium (dissolved)	µg/L	85	93	3.0	1.2 J
Cobalt	µg/L	190	190	2.4	2.3
Cobalt (dissolved)	µg/L	32	31	1.2	0.38 J
Copper	µg/L	410	390	6.0	10
Copper (dissolved)	µg/L	65	66	2.4	1.7 U
Iron	µg/L	450000	410000	7400	16000
Iron (dissolved)	µg/L	65000	65000	2600	4300
Lead	µg/L	330	320	5.4	5.7
Lead (dissolved)	µg/L	52	53	1.6	0.55 J
Magnesium	µg/L	1100000	930000	34000	43000
Magnesium (dissolved)	µg/L	150000	160000	29000	35000
Manganese	µg/L	7400	6700	270	450
Manganese (dissolved)	µg/L	1300	1400	200	300
Mercury	µg/L	0.35	0.27	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	480	460	7.8	9.6
Nickel (dissolved)	µg/L	77	78	4.4	1.8 J
Potassium	µg/L	52000	50000	5400	5200
Potassium (dissolved)	µg/L	15000	15000	4600	4200
Selenium	µg/L	17	17	0.89 U	0.89 U
Selenium (dissolved)	µg/L	3.3 J	3.2 J	0.89 U	0.89 U
Silver	µg/L	0.93 J	0.93 J	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.18 J	0.15 J	0.053 U	0.053 U

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**
Sample Name:		**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-020519-JC-222**
Sample Date:		**01/29/2019**	**01/29/2019**	**02/04/2019**	**02/05/2019**
Depth:		**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**40-50 ft BGS**	**60-70 ft BGS**
Parameters	**Unit**				
Metals					
Sodium	µg/L	27000	26000	23000	33000
Sodium (dissolved)	µg/L	27000	27000	23000	33000
Thallium	µg/L	5.4	5.0	0.22 J	0.20 U
Thallium (dissolved)	µg/L	1.5	1.4	0.20 U	0.20 U
Vanadium	µg/L	470	450	6.6	8.6
Vanadium (dissolved)	µg/L	79	84	1.6 J	0.82 U
Zinc	µg/L	4100	3900	590	530
Zinc (dissolved)	µg/L	640	690	460	440
General Chemistry					
Cyanide (total)	mg/L	--	--	--	--
Chloride	µg/L	47000	48000	38000	61000
Nitrate (as N)	µg/L	550	530	250	14 U
Nitrite (as N)	µg/L	61 U	57 U	14 U	14 U
Sulfate	µg/L	35000	34000	50000	68000
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 UJ	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 UJ	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**Trip Blank**
Sample Name:		**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**TB-38443-011419-JC-001**
Sample Date:		**02/05/2019**	**02/05/2019**	**02/20/2019**	**01/14/2019**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**--**
Parameters	**Unit**				
Volatile Organic Compounds, BTEX					
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 UJ	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 J	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 UJ	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.22 J	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 UJ	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.20 J	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.57 UJ	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U
Volatile Organic Compounds, BTEX					

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**Trip Blank**
Sample Name:		**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**TB-38443-011419-JC-001**
Sample Date:		**02/05/2019**	**02/05/2019**	**02/20/2019**	**01/14/2019**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**--**
Parameters	**Unit**				
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 UJ	0.15 U
Toluene	µg/L	1.1	0.64 J	0.30 J	0.14 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 J	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 UJ	0.67 U
Trichloroethene	µg/L	0.32 J	0.60 J	0.14 J	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds					
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--	--
2-Chloronaphthalene	µg/L	--	--	--	--
2-Chlorophenol	µg/L	--	--	--	--
2-Methylnaphthalene	µg/L	--	--	--	--
2-Methylphenol	µg/L	--	--	--	--
2-Nitroaniline	µg/L	--	--	--	--
2-Nitrophenol	µg/L	--	--	--	--
3&4-Methylphenol	µg/L	--	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--	--
3-Nitroaniline	µg/L	--	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--	--
4-Chloroaniline	µg/L	--	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--	--
4-Nitroaniline	µg/L	--	--	--	--
4-Nitrophenol	µg/L	--	--	--	--
Acenaphthene	µg/L	--	--	--	--
Acenaphthylene	µg/L	--	--	--	--
Semivolatile Organic Compounds					
Acetophenone	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**Trip Blank**
Sample Name:		**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**TB-38443-011419-JC-001**
Sample Date:		**02/05/2019**	**02/05/2019**	**02/20/2019**	**01/14/2019**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**--**
Parameters	**Unit**				
Anthracene	µg/L	--	--	--	--
Atrazine	µg/L	--	--	--	--
Benzaldehyde	µg/L	--	--	--	--
Benzo(a)anthracene	µg/L	--	--	--	--
Benzo(a)pyrene	µg/L	--	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--	--
Caprolactam	µg/L	--	--	--	--
Carbazole	µg/L	--	--	--	--
Chrysene	µg/L	--	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--	--
Dibenzofuran	µg/L	--	--	--	--
Diethyl phthalate	µg/L	--	--	--	--
Dimethyl phthalate	µg/L	--	--	--	--
Fluoranthene	µg/L	--	--	--	--
Fluorene	µg/L	--	--	--	--
Hexachlorobenzene	µg/L	--	--	--	--
Hexachlorobutadiene	µg/L	--	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--	--
Hexachloroethane	µg/L	--	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--	--
Isophorone	µg/L	--	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--	--
Naphthalene	µg/L	--	--	--	--
Nitrobenzene	µg/L	--	--	--	--
Pentachlorophenol	µg/L	--	--	--	--
Phenanthrene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**Trip Blank**
Sample Name:		**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**TB-38443-011419-JC-001**
Sample Date:		**02/05/2019**	**02/05/2019**	**02/20/2019**	**01/14/2019**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**--**
Parameters	**Unit**				
Semivolatile Organic Compounds					
Phenol	µg/L	--	--	--	--
Pyrene	µg/L	--	--	--	--
Herbicides					
2,4,5-T	µg/L	--	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--	--
PCBs					
Aroclor-1016 (PCB-1016)	µg/L	--	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--	--
Pesticides					
4,4'-DDD	µg/L	--	--	--	--
4,4'-DDE	µg/L	--	--	--	--
4,4'-DDT	µg/L	--	--	--	--
Aldrin	µg/L	--	--	--	--
alpha-BHC	µg/L	--	--	--	--
alpha-Chlordane	µg/L	--	--	--	--
beta-BHC	µg/L	--	--	--	--
delta-BHC	µg/L	--	--	--	--
Dieldrin	µg/L	--	--	--	--
Endosulfan I	µg/L	--	--	--	--
Endosulfan II	µg/L	--	--	--	--
Endosulfan sulfate	µg/L	--	--	--	--
Endrin	µg/L	--	--	--	--
Endrin aldehyde	µg/L	--	--	--	--
Endrin ketone	µg/L	--	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--	--
gamma-Chlordane	µg/L	--	--	--	--
Heptachlor	µg/L	--	--	--	--
Heptachlor epoxide	µg/L	--	--	--	--
Methoxychlor	µg/L	--	--	--	--
Toxaphene	µg/L	--	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**Trip Blank**
Sample Name:		**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**TB-38443-011419-JC-001**
Sample Date:		**02/05/2019**	**02/05/2019**	**02/20/2019**	**01/14/2019**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**--**
Parameters	**Unit**				
Metals					
Aluminum	µg/L	14000	7200	5200	--
Aluminum (dissolved)	µg/L	34 U	770	280	--
Antimony	µg/L	0.71 J	0.57 U	0.57 U	--
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	--
Arsenic	µg/L	12	8.4	7.1	--
Arsenic (dissolved)	µg/L	3.4 J	3.5 J	3.9 J	--
Barium	µg/L	330	270	230	--
Barium (dissolved)	µg/L	200	210	190	--
Beryllium	µg/L	0.60 J	0.32 J	0.64 J	--
Beryllium (dissolved)	µg/L	0.31 U	0.33 J	0.78 J	--
Cadmium	µg/L	0.39 J	0.21 U	0.21 J	--
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.22 J	--
Calcium	µg/L	200000	170000	150000	--
Calcium (dissolved)	µg/L	110000	130000	130000	--
Chromium	µg/L	64	33	18	--
Chromium (dissolved)	µg/L	0.98 U	3.4	1.2 J	--
Cobalt	µg/L	7.3	3.7	3.5	--
Cobalt (dissolved)	µg/L	0.36 J	0.70 J	0.61 J	--
Copper	µg/L	31	17	12	--
Copper (dissolved)	µg/L	1.7 U	2.2	1.7 U	--
Iron	µg/L	42000	26000	18000	--
Iron (dissolved)	µg/L	3000	5800	5400	--
Lead	µg/L	17	9.6	7.4	--
Lead (dissolved)	µg/L	0.45 U	1.0	0.61 J	--
Magnesium	µg/L	75000	59000	57000	--
Magnesium (dissolved)	µg/L	38000	48000	48000	--
Manganese	µg/L	980	800	630	--
Manganese (dissolved)	µg/L	410	530	420	--
Mercury	µg/L	0.13 U	0.13 U	0.13 U	--
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	--
Nickel	µg/L	29	17	11	--
Nickel (dissolved)	µg/L	2.3	4.2	2.6	--
Potassium	µg/L	7500	5800	6100	--
Potassium (dissolved)	µg/L	4100	4400	5000	--
Selenium	µg/L	1.2 J	0.95 J	0.89 U	--
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	--
Silver	µg/L	0.096 J	0.065 J	0.053 U	--
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**VAS-39**	**VAS-39**	**VAS-39**	**Trip Blank**
Sample Name:		**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**TB-38443-011419-JC-001**
Sample Date:		**02/05/2019**	**02/05/2019**	**02/20/2019**	**01/14/2019**
Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**--**
Parameters	**Unit**				
Metals					
Sodium	µg/L	33000	38000	41000	--
Sodium (dissolved)	µg/L	34000	38000	43000	--
Thallium	µg/L	0.33 J	0.20 U	0.23 J	--
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	--
Vanadium	µg/L	30	15	12	--
Vanadium (dissolved)	µg/L	0.82 U	1.3 J	0.85 J	--
Zinc	µg/L	930	620	910	--
Zinc (dissolved)	µg/L	480	480	710	--
General Chemistry					
Cyanide (total)	mg/L	--	--	0.0060 U	--
Chloride	µg/L	62000	63000	64000	--
Nitrate (as N)	µg/L	14 U	14 U	14 U	--
Nitrite (as N)	µg/L	14 U	14 U	14 U	--
Sulfate	µg/L	75000	88000	89000	--
Fumigant					
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-012219-JC-001**	**TB-38443-012319-JC-002**	**TB-38443-012919-JC-003**
Sample Date:		**01/22/2019**	**01/23/2019**	**01/29/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	7.2 J	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U
Volatile Organic Compounds, BTEX				

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-012219-JC-001**	**TB-38443-012319-JC-002**	**TB-38443-012919-JC-003**
Sample Date:		**01/22/2019**	**01/23/2019**	**01/29/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Styrene	µg/L	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.14 U	0.14 U	0.14 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--
2-Chloronaphthalene	µg/L	--	--	--
2-Chlorophenol	µg/L	--	--	--
2-Methylnaphthalene	µg/L	--	--	--
2-Methylphenol	µg/L	--	--	--
2-Nitroaniline	µg/L	--	--	--
2-Nitrophenol	µg/L	--	--	--
3&4-Methylphenol	µg/L	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--
3-Nitroaniline	µg/L	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--
4-Chloroaniline	µg/L	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--
4-Nitroaniline	µg/L	--	--	--
4-Nitrophenol	µg/L	--	--	--
Acenaphthene	µg/L	--	--	--
Acenaphthylene	µg/L	--	--	--
Semivolatile Organic Compounds				
Acetophenone	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-012219-JC-001**	**TB-38443-012319-JC-002**	**TB-38443-012919-JC-003**
Sample Date:		**01/22/2019**	**01/23/2019**	**01/29/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Anthracene	µg/L	--	--	--
Atrazine	µg/L	--	--	--
Benzaldehyde	µg/L	--	--	--
Benzo(a)anthracene	µg/L	--	--	--
Benzo(a)pyrene	µg/L	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--
Caprolactam	µg/L	--	--	--
Carbazole	µg/L	--	--	--
Chrysene	µg/L	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--
Dibenzofuran	µg/L	--	--	--
Diethyl phthalate	µg/L	--	--	--
Dimethyl phthalate	µg/L	--	--	--
Fluoranthene	µg/L	--	--	--
Fluorene	µg/L	--	--	--
Hexachlorobenzene	µg/L	--	--	--
Hexachlorobutadiene	µg/L	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--
Hexachloroethane	µg/L	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--
Isophorone	µg/L	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--
Naphthalene	µg/L	--	--	--
Nitrobenzene	µg/L	--	--	--
Pentachlorophenol	µg/L	--	--	--
Phenanthrene	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		Trip Blank	Trip Blank	Trip Blank
Sample Name:		TB-38443-012219-JC-001	TB-38443-012319-JC-002	TB-38443-012919-JC-003
Sample Date:		01/22/2019	01/23/2019	01/29/2019
Depth:		--	--	--
Parameters	**Unit**			
Semivolatile Organic Compounds				
Phenol	µg/L	--	--	--
Pyrene	µg/L	--	--	--
Herbicides				
2,4,5-T	µg/L	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/L	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--
Pesticides				
4,4'-DDD	µg/L	--	--	--
4,4'-DDE	µg/L	--	--	--
4,4'-DDT	µg/L	--	--	--
Aldrin	µg/L	--	--	--
alpha-BHC	µg/L	--	--	--
alpha-Chlordane	µg/L	--	--	--
beta-BHC	µg/L	--	--	--
delta-BHC	µg/L	--	--	--
Dieldrin	µg/L	--	--	--
Endosulfan I	µg/L	--	--	--
Endosulfan II	µg/L	--	--	--
Endosulfan sulfate	µg/L	--	--	--
Endrin	µg/L	--	--	--
Endrin aldehyde	µg/L	--	--	--
Endrin ketone	µg/L	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--
gamma-Chlordane	µg/L	--	--	--
Heptachlor	µg/L	--	--	--
Heptachlor epoxide	µg/L	--	--	--
Methoxychlor	µg/L	--	--	--
Toxaphene	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-012219-JC-001**	**TB-38443-012319-JC-002**	**TB-38443-012919-JC-003**
Sample Date:		**01/22/2019**	**01/23/2019**	**01/29/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	--	--	--
Aluminum (dissolved)	µg/L	--	--	--
Antimony	µg/L	--	--	--
Antimony (dissolved)	µg/L	--	--	--
Arsenic	µg/L	--	--	--
Arsenic (dissolved)	µg/L	--	--	--
Barium	µg/L	--	--	--
Barium (dissolved)	µg/L	--	--	--
Beryllium	µg/L	--	--	--
Beryllium (dissolved)	µg/L	--	--	--
Cadmium	µg/L	--	--	--
Cadmium (dissolved)	µg/L	--	--	--
Calcium	µg/L	--	--	--
Calcium (dissolved)	µg/L	--	--	--
Chromium	µg/L	--	--	--
Chromium (dissolved)	µg/L	--	--	--
Cobalt	µg/L	--	--	--
Cobalt (dissolved)	µg/L	--	--	--
Copper	µg/L	--	--	--
Copper (dissolved)	µg/L	--	--	--
Iron	µg/L	--	--	--
Iron (dissolved)	µg/L	--	--	--
Lead	µg/L	--	--	--
Lead (dissolved)	µg/L	--	--	--
Magnesium	µg/L	--	--	--
Magnesium (dissolved)	µg/L	--	--	--
Manganese	µg/L	--	--	--
Manganese (dissolved)	µg/L	--	--	--
Mercury	µg/L	--	--	--
Mercury (dissolved)	µg/L	--	--	--
Nickel	µg/L	--	--	--
Nickel (dissolved)	µg/L	--	--	--
Potassium	µg/L	--	--	--
Potassium (dissolved)	µg/L	--	--	--
Selenium	µg/L	--	--	--
Selenium (dissolved)	µg/L	--	--	--
Silver	µg/L	--	--	--
Silver (dissolved)	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-012219-JC-001**	**TB-38443-012319-JC-002**	**TB-38443-012919-JC-003**
Sample Date:		**01/22/2019**	**01/23/2019**	**01/29/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Metals				
Sodium	µg/L	--	--	--
Sodium (dissolved)	µg/L	--	--	--
Thallium	µg/L	--	--	--
Thallium (dissolved)	µg/L	--	--	--
Vanadium	µg/L	--	--	--
Vanadium (dissolved)	µg/L	--	--	--
Zinc	µg/L	--	--	--
Zinc (dissolved)	µg/L	--	--	--
General Chemistry				
Cyanide (total)	mg/L	--	--	--
Chloride	µg/L	--	--	--
Nitrate (as N)	µg/L	--	--	--
Nitrite (as N)	µg/L	--	--	--
Sulfate	µg/L	--	--	--
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-020419-JC-004**	**TB-38443-020519-JC-005**	**TB-38443-021919-JC-006**
Sample Date:		**02/04/2019**	**02/05/2019**	**02/20/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Volatile Organic Compounds, BTEX				
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 J
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U
Volatile Organic Compounds, BTEX				

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-020419-JC-004**	**TB-38443-020519-JC-005**	**TB-38443-021919-JC-006**
Sample Date:		**02/04/2019**	**02/05/2019**	**02/20/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Styrene	µg/L	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.14 U	0.14 U	0.14 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U
Semivolatile Organic Compounds				
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	--	--	--
2,4,5-Trichlorophenol	µg/L	--	--	--
2,4,6-Trichlorophenol	µg/L	--	--	--
2,4-Dichlorophenol	µg/L	--	--	--
2,4-Dimethylphenol	µg/L	--	--	--
2,4-Dinitrophenol	µg/L	--	--	--
2,4-Dinitrotoluene	µg/L	--	--	--
2,6-Dinitrotoluene	µg/L	--	--	--
2-Chloronaphthalene	µg/L	--	--	--
2-Chlorophenol	µg/L	--	--	--
2-Methylnaphthalene	µg/L	--	--	--
2-Methylphenol	µg/L	--	--	--
2-Nitroaniline	µg/L	--	--	--
2-Nitrophenol	µg/L	--	--	--
3&4-Methylphenol	µg/L	--	--	--
3,3'-Dichlorobenzidine	µg/L	--	--	--
3-Nitroaniline	µg/L	--	--	--
4,6-Dinitro-2-methylphenol	µg/L	--	--	--
4-Bromophenyl phenyl ether	µg/L	--	--	--
4-Chloro-3-methylphenol	µg/L	--	--	--
4-Chloroaniline	µg/L	--	--	--
4-Chlorophenyl phenyl ether	µg/L	--	--	--
4-Nitroaniline	µg/L	--	--	--
4-Nitrophenol	µg/L	--	--	--
Acenaphthene	µg/L	--	--	--
Acenaphthylene	µg/L	--	--	--
Semivolatile Organic Compounds				
Acetophenone	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-020419-JC-004**	**TB-38443-020519-JC-005**	**TB-38443-021919-JC-006**
Sample Date:		**02/04/2019**	**02/05/2019**	**02/20/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Anthracene	µg/L	--	--	--
Atrazine	µg/L	--	--	--
Benzaldehyde	µg/L	--	--	--
Benzo(a)anthracene	µg/L	--	--	--
Benzo(a)pyrene	µg/L	--	--	--
Benzo(b)fluoranthene	µg/L	--	--	--
Benzo(g,h,i)perylene	µg/L	--	--	--
Benzo(k)fluoranthene	µg/L	--	--	--
Biphenyl (1,1-Biphenyl)	µg/L	--	--	--
bis(2-Chloroethoxy)methane	µg/L	--	--	--
bis(2-Chloroethyl)ether	µg/L	--	--	--
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	--	--	--
Butyl benzylphthalate (BBP)	µg/L	--	--	--
Caprolactam	µg/L	--	--	--
Carbazole	µg/L	--	--	--
Chrysene	µg/L	--	--	--
Di-n-butylphthalate (DBP)	µg/L	--	--	--
Di-n-octyl phthalate (DnOP)	µg/L	--	--	--
Dibenz(a,h)anthracene	µg/L	--	--	--
Dibenzofuran	µg/L	--	--	--
Diethyl phthalate	µg/L	--	--	--
Dimethyl phthalate	µg/L	--	--	--
Fluoranthene	µg/L	--	--	--
Fluorene	µg/L	--	--	--
Hexachlorobenzene	µg/L	--	--	--
Hexachlorobutadiene	µg/L	--	--	--
Hexachlorocyclopentadiene	µg/L	--	--	--
Hexachloroethane	µg/L	--	--	--
Indeno(1,2,3-cd)pyrene	µg/L	--	--	--
Isophorone	µg/L	--	--	--
N-Nitrosodi-n-propylamine	µg/L	--	--	--
N-Nitrosodiphenylamine	µg/L	--	--	--
Naphthalene	µg/L	--	--	--
Nitrobenzene	µg/L	--	--	--
Pentachlorophenol	µg/L	--	--	--
Phenanthrene	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-020419-JC-004**	**TB-38443-020519-JC-005**	**TB-38443-021919-JC-006**
Sample Date:		**02/04/2019**	**02/05/2019**	**02/20/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Semivolatile Organic Compounds				
Phenol	µg/L	--	--	--
Pyrene	µg/L	--	--	--
Herbicides				
2,4,5-T	µg/L	--	--	--
2,4,5-TP (Silvex)	µg/L	--	--	--
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	--	--	--
PCBs				
Aroclor-1016 (PCB-1016)	µg/L	--	--	--
Aroclor-1221 (PCB-1221)	µg/L	--	--	--
Aroclor-1232 (PCB-1232)	µg/L	--	--	--
Aroclor-1242 (PCB-1242)	µg/L	--	--	--
Aroclor-1248 (PCB-1248)	µg/L	--	--	--
Aroclor-1254 (PCB-1254)	µg/L	--	--	--
Aroclor-1260 (PCB-1260)	µg/L	--	--	--
Pesticides				
4,4'-DDD	µg/L	--	--	--
4,4'-DDE	µg/L	--	--	--
4,4'-DDT	µg/L	--	--	--
Aldrin	µg/L	--	--	--
alpha-BHC	µg/L	--	--	--
alpha-Chlordane	µg/L	--	--	--
beta-BHC	µg/L	--	--	--
delta-BHC	µg/L	--	--	--
Dieldrin	µg/L	--	--	--
Endosulfan I	µg/L	--	--	--
Endosulfan II	µg/L	--	--	--
Endosulfan sulfate	µg/L	--	--	--
Endrin	µg/L	--	--	--
Endrin aldehyde	µg/L	--	--	--
Endrin ketone	µg/L	--	--	--
gamma-BHC (lindane)	µg/L	--	--	--
gamma-Chlordane	µg/L	--	--	--
Heptachlor	µg/L	--	--	--
Heptachlor epoxide	µg/L	--	--	--
Methoxychlor	µg/L	--	--	--
Toxaphene	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-020419-JC-004**	**TB-38443-020519-JC-005**	**TB-38443-021919-JC-006**
Sample Date:		**02/04/2019**	**02/05/2019**	**02/20/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Metals				
Aluminum	µg/L	--	--	--
Aluminum (dissolved)	µg/L	--	--	--
Antimony	µg/L	--	--	--
Antimony (dissolved)	µg/L	--	--	--
Arsenic	µg/L	--	--	--
Arsenic (dissolved)	µg/L	--	--	--
Barium	µg/L	--	--	--
Barium (dissolved)	µg/L	--	--	--
Beryllium	µg/L	--	--	--
Beryllium (dissolved)	µg/L	--	--	--
Cadmium	µg/L	--	--	--
Cadmium (dissolved)	µg/L	--	--	--
Calcium	µg/L	--	--	--
Calcium (dissolved)	µg/L	--	--	--
Chromium	µg/L	--	--	--
Chromium (dissolved)	µg/L	--	--	--
Cobalt	µg/L	--	--	--
Cobalt (dissolved)	µg/L	--	--	--
Copper	µg/L	--	--	--
Copper (dissolved)	µg/L	--	--	--
Iron	µg/L	--	--	--
Iron (dissolved)	µg/L	--	--	--
Lead	µg/L	--	--	--
Lead (dissolved)	µg/L	--	--	--
Magnesium	µg/L	--	--	--
Magnesium (dissolved)	µg/L	--	--	--
Manganese	µg/L	--	--	--
Manganese (dissolved)	µg/L	--	--	--
Mercury	µg/L	--	--	--
Mercury (dissolved)	µg/L	--	--	--
Nickel	µg/L	--	--	--
Nickel (dissolved)	µg/L	--	--	--
Potassium	µg/L	--	--	--
Potassium (dissolved)	µg/L	--	--	--
Selenium	µg/L	--	--	--
Selenium (dissolved)	µg/L	--	--	--
Silver	µg/L	--	--	--
Silver (dissolved)	µg/L	--	--	--

Table 2

Analytical Results Summary
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Location ID:		**Trip Blank**	**Trip Blank**	**Trip Blank**
Sample Name:		**TB-38443-020419-JC-004**	**TB-38443-020519-JC-005**	**TB-38443-021919-JC-006**
Sample Date:		**02/04/2019**	**02/05/2019**	**02/20/2019**
Depth:		**--**	**--**	**--**
Parameters	**Unit**			
Metals				
Sodium	µg/L	--	--	--
Sodium (dissolved)	µg/L	--	--	--
Thallium	µg/L	--	--	--
Thallium (dissolved)	µg/L	--	--	--
Vanadium	µg/L	--	--	--
Vanadium (dissolved)	µg/L	--	--	--
Zinc	µg/L	--	--	--
Zinc (dissolved)	µg/L	--	--	--
General Chemistry				
Cyanide (total)	mg/L	--	--	--
Chloride	µg/L	--	--	--
Nitrate (as N)	µg/L	--	--	--
Nitrite (as N)	µg/L	--	--	--
Sulfate	µg/L	--	--	--
Fumigant				
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U

Notes:

BTEX - Benzene, Toluene, Ethylbenzene and Xylene
PCBs - Polychlorinated Biphenyls
J - Estimated concentration
U - Not detected at the associated reporting limit
UJ - Not detected; associated reporting limit is estimated
-- - Not applicable

Table 3

Analytical Methods
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Parameter	Method	Matrix	Holding Time	
			Collection to Extraction (Days)	Collection or Extraction to Analysis (Days)
Volatile Organic Compounds (VOCs)	SW-846 8260B	Water	-	14
Fumigants	SW-846 8011	Water	-	14
Semi-Volatile Organic Compounds (SVOCs)	SW-846 8270C	Water	7	40
Organochlorine Pesticides	SW-846 8081A	Water	7	40
Polychlorinated Biphenyls (PCBs)	SW-846 8082A	Water	up to one year	40
Chlorinated Herbicides	SW-846 8151A	Water	7	40
Total & Dissolved Metals	SW-846 6020	Water	-	180
Mercury	SW-846 7470A	Water	-	28
Anions	EPA-MCAWW 300.0	Water	-	28 Nitrate and Nitrite - 48 hours
Total Cyanide	SW-846 9012A	Water	-	14

Notes:

Method References:

SW-846	- "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition, 1986, with subsequent r
EPA - MCAWW	"Methods for Chemical Analysis of Water and Waste," EPA-600/4-79-020, revised March 1983, with subsequent revisions.
--	- Not applicable

Table 4

Qualified Sample Results Due to Holding Time Exceedance
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Parameter	Sample ID	Holding Time (days)	Holding Time Criteria (days)	Analyte	Qualified Sample Results	Units
Fumigants	GW-38443-020419-JC-221	15	14	1,2-Dibromo-3-chloropropane (DBCP)	0.0086 UJ	µg/L
				1,2-Dibromoethane (Ethylene dibromide)	0.0087 UJ	µg/L
Herbicides	GW-38443-011419-JC-003	15	7	2,4,5-T	R	
				2,4,5-TP (Silvex)	R	
				2,4-Dichlorophenoxyacetic acid (2,4-D)	R	

Notes:

R - Rejected
UJ - Not detected; associated reporting limit is estimated

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromoform	01/18/2019	26	GW-38443-011419-JC-001	0.76 UJ	µg/L
				GW-38443-011419-JC-002	0.76 UJ	µg/L
				GW-38443-011419-JC-003	0.76 UJ	µg/L
VOCs	1,2,4-Trichlorobenzene	01/24/2019	29	GW-38443-012219-JC-214	0.26 UJ	µg/L
VOCs	Bromoform	01/24/2019	36	GW-38443-012219-JC-214	0.76 UJ	µg/L
VOCs	Tetrachloroethene	01/24/2019	29	GW-38443-012219-JC-214	0.15 UJ	µg/L
VOCs	2-Hexanone	01/28/2019	43	GW-38443-012319-JC-215	0.54 UJ	µg/L
				GW-38443-012319-JC-216	0.54 UJ	µg/L
				GW-38443-012319-JC-217	0.54 UJ	µg/L
				GW-38443-012319-JC-218	0.54 UJ	µg/L
VOCs	4-Methyl-2-pentanone	01/28/2019	44	GW-38443-012319-JC-215	0.42 UJ	µg/L
				GW-38443-012319-JC-216	0.42 UJ	µg/L
				GW-38443-012319-JC-217	0.42 UJ	µg/L
				GW-38443-012319-JC-218	0.42 UJ	µg/L
VOCs	Methyl acetate	02/01/2019	45	GW-38443-012919-JC-219	1.7 UJ	µg/L
				GW-38443-012919-JC-220	1.7 UJ	µg/L
VOCs	Bromoform	02/06/2019	26	GW-38443-020419-JC-221	0.76 UJ	µg/L
VOCs	1,1,2,2-Tetrachloroethane	02/22/2019	31	GW-38443-022019-JC-225	0.13 UJ	µg/L
VOCs	2-Hexanone	02/22/2019	42	GW-38443-022019-JC-225	0.54 UJ	µg/L

Table 5

Qualified Sample Results Due to Outlying Continuing Calibration Results
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Parameter	Analyte	Calibration Date (mm/dd/yyyy)	%D	Associated Sample ID	Qualified Result	Units
VOCs	Bromoform	02/22/2019	33	GW-38443-022019-JC-225	0.76 UJ	µg/L
VOCs	cis-1,2-Dichloroethene	02/22/2019	36	GW-38443-022019-JC-225	0.57 UJ	µg/L
VOCs	Tetrachloroethene	02/22/2019	45	GW-38443-022019-JC-225	0.15 UJ	µg/L
VOCs	trans-1,3-Dichloropropene	02/22/2019	31	GW-38443-022019-JC-225	0.67 UJ	µg/L

Notes:

%D - Percent difference
UJ - Not detected; associated reporting limit is estimated
VOCs - Volatile Organic Compounds

Table 6

Qualified Sample Results Due to Analyte Concentrations in the Method Blanks
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Parameter	Analyte	Analysis Date	Blank Result *	Sample ID	Original Result	Qualified Result	Units
General Chemistry	Nitrite (as N)	01/30/2019	14.6	GW-38443-012919-JC-219	61 J	61 U	µg/L
				GW-38443-012919-JC-220	57 J	57 U	µg/L

Notes:

* - Blank result adjusted for sample factors where applicable
U - Not detected at the associated reporting limit
J - Estimated concentration
N - Nitrogen

Table 7

Qualified Sample Data Due to Outlying of Surrogate Recoveries
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Parameter	Sample ID	Surrogate	Surrogate % Recovery	Control Limits % Recovery	Analyte	Qualified Result	Units
Herbicides	GW-38443-011419-JC-001	2,4-Dichlorophenylacetic acid	18	26-122	2,4,5-T	0.57 UJ	µg/L
					2,4,5-TP (Silvex)	0.43 UJ	µg/L
					2,4-Dichlorophenoxyacetic acid (2,4-D)	2.2 UJ	µg/L

Notes:

UJ - Not detected; associated reporting limit is estimated

Table 8

Qualified Sample Data Due to Analyte Concentrations in the Trip Blanks
Vertical Aquifer Sampling
ITW Corporate-South Dayton Dump and Landfill
Moraine, Ohio
January and February 2019

Parameter	Blank Date (mm/dd/yyyy)	Analyte	Blank Result	Associated Sample ID	Original Result	Qualified Result	Units
VOCs	02/20/2019	cis-1,2-Dichloroethene	0.16 J	GW-38443-022019-JC-225	0.57 J	0.57 U	µg/L

Notes:

U - Not detected at the associated reporting limit
J - Estimated concentration
VOCs - Volatile Organic Compounds

Appendix D
Analytical Results – Groundwater Samples

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:								BH1-13	BH01-18	BH01-18	BH2-13	BH02-18	BH3-13	BH03-18	BH4-13
Sample ID:								GW-38443-061313-SM-016	WG-38443-050818-GL-003	WG-38443-050818-GL-004	GW-038443-061413-SM-021	WG-38443-050818-GL-002	GW-038443-061413-SM-020	WG-38443-050718-GL-001	GW-038443-061413-SM-022
Sample Date:								6/13/2013	5/8/2018	5/8/2018	6/14/2013	5/8/2018	6/14/2013	5/7/2018	6/14/2013
Sample Depth:								22.5-26.5 ft BGS	26-30 ft BGS	26-30 ft BGS Duplicate	21.5-25.5 ft BGS	27.5-31.5 ft BGS	22.75-26.75 ft BGS	26.5-30.5 ft BGS	21.3-25.3 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Volatiles															
1,1,1-Trichloroethane	ug/L	200	800	349	32	0.22	15	1.0 U	0.23 U	0.23 U	1.0 U	1.0	1.0 U	3.7	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	-	0.076	349	0	ND	ND	1.0 U	0.32 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U
1,1,2-Trichloroethane	ug/L	5	0.041	280	0	ND	ND	1.0 U	0.34 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U
1,1-Dichloroethane	ug/L	-	2.8	349	111	0.18	39	1.0 U	0.25 U	0.25 U	1.0 U	0.25 U	1.0 U	1.8	1.0 U
1,1-Dichloroethene	ug/L	7	28	280	6	0.24	1.1	1.0 U	0.27 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	70	0.4	280	1	1.2	1.2	1.0 U	0.27 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	0.00033	278	1	0.0096	0.0096	2.0 U	0.0086 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.05	0.0075	278	0	ND	ND	1.0 U	0.0087 U	0.0087 U	1.0 U	0.0087 U	1.0 U	0.0087 U	1.0 U
1,2-Dichlorobenzene	ug/L	600	30	280	18	0.13	1.8	1.0 U	0.26 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U
1,2-Dichloroethane	ug/L	5	0.17	349	4	2	34	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	71	25	2	480	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	5	0.82	280	2	0.54	0.62	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U
1,3-Dichlorobenzene	ug/L	-	-	280	2	0.31	0.44	1.0 U	0.32 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U
1,4-Dichlorobenzene	ug/L	75	0.48	280	19	0.16	5.6	1.0 U	0.23 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	560	280	23	0.57	19	10 U	1.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U
2-Hexanone	ug/L	-	3.8	280	0	ND	ND	10 U	1.2 U	1.2 U	10 U	1.2 U	10 U	1.2 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	630	280	4	0.34	21	10 U	0.71 U	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U
Acetone	ug/L	-	1400	349	30	1.1	30	10 U	1.8 U	1.8 U	10 U	1.8 U	10 U	290 U	10 U
Benzene	ug/L	5	0.46	349	71	0.15	100	1.0 U	0.28 U	0.28 U	1.0 U	0.28 U	1.0 U	0.28 U	0.40 J
Bromodichloromethane	ug/L	80	0.13	280	5	0.34	1.3	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U
Bromoform	ug/L	80	3.3	349	1	0.6	0.6	1.0 UJ	0.43 U	0.43 U	1.0 UJ	0.43 U	1.0 UJ	0.43 U	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	-	0.75	279	0	ND	ND	1.0 UJ	0.42 U	0.42 U	1.0 UJ	0.42 U	1.0 UJ	0.42 U	1.0 UJ
Carbon disulfide	ug/L	-	81	280	8	0.17	1.2	1.0 U	0.34 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U
Carbon tetrachloride	ug/L	5	0.46	280	0	ND	ND	1.0 U	0.35 U	0.35 U	1.0 U	0.35 U	1.0 U	0.35 U	1.0 U
Chlorobenzene	ug/L	100	7.8	349	74	0.2	130	1.0 U	0.32 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U
Chloroethane	ug/L	-	2100	348	16	0.52	9.4	1.0 UJ	0.41 U	0.41 U	1.0 UJ	0.41 U	1.0 UJ	0.41 U	1.0 UJ
Chloroform (Trichloromethane)	ug/L	80	0.22	280	23	0.22	3.1	1.0 U	0.31 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.3[b]
Chloromethane (Methyl chloride)	ug/L	-	19	280	1	0.34	0.34	1.0 U	0.43 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U
cis-1,2-Dichloroethene	ug/L	70	3.6	278	194	0.17	3900	0.45 J	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	1.7	1.0 U
cis-1,3-Dichloropropene	ug/L	-	-	280	0	ND	ND	1.0 U	0.26 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U
Cyclohexane	ug/L	-	1300	278	74	0.12	6.9	1.0 U	0.44 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U
Dibromochloromethane	ug/L	80	0.87	280	5	0.28	0.76	1.0 U	0.25 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	20	278	1	0.36	0.36	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U
Ethylbenzene	ug/L	700	1.5	280	47	0.2	100	1.0 U	0.26 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.2
Isopropyl benzene	ug/L	-	45	278	19	0.17	36	1.0 U	0.21 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U
m&p-Xylenes	ug/L	-	-	63	6	0.15	12	-	0.24 U	0.24 U	-	0.24 U	-	0.24 U	-
Methyl acetate	ug/L	-	2000	278	1	0.38	0.38	10 U	1.4 U	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U
Methyl cyclohexane	ug/L	-	-	278	21	0.17	40	1.0 U	0.45 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	-	14	278	20	0.19	2	1.0 U	0.27 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U
Methylene chloride	ug/L	5	11	349	15	0.7	51	1.0 U	0.53 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U
o-Xylene	ug/L	-	19	63	4	0.25	6.6	-	0.28 U	0.28 U	-	0.28 U	-	0.28 U	-
Styrene	ug/L	100	120	349	4	0.13	0.78	1.0 U	0.23 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U
Tetrachloroethene	ug/L	5	4.1	349	18	0.29	4.6	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.79 J	2.2
Toluene	ug/L	1000	110	349	164	0.13	270	1.0 U	0.48 J	0.44 J	1.0 U	0.27 J	0.21 J	0.23 U	3.0
trans-1,2-Dichloroethene	ug/L	100	36	278	46	0.19	4.3	1.0 U	0.29 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U
trans-1,3-Dichloropropene	ug/L	-	-	280	0	ND	ND	1.0 U	0.31 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U
Trichloroethene	ug/L	5	0.28	349	161	0.17	5100	1.4[b]	0.33 U	0.33 U	0.71 J[b]	0.52 U	0.43 J[b]	12[ab]	1.9[b]
Trichlorofluoromethane (CFC-11)	ug/L	-	520	278	0	ND	ND	1.0 U	0.50 U	0.50 U	1.0 UJ	0.50 U	1.0 UJ	0.50 U	1.0 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	-	1000	278	0	ND	ND	1.0 U	0.41 U	0.41 U	1.0 U	0.41 U	1.0 U	0.41 U	1.0 U
Vinyl chloride	ug/L	2	0.019	349	130	0.22	760	1.0 U	0.45 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U
Xylenes (total)	ug/L	10000	19	349	44	0.26	190	2.0 U	0.24 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	4.4
Semi-Volatiles															
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	71	86	0	ND	ND	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:								**BH1-13**	**BH01-18**	**BH01-18**	**BH2-13**	**BH02-18**	**BH3-13**	**BH03-18**	**BH4-13**
Sample ID:								**GW-38443-061313-SM-016**	**WG-38443-050818-GL-003**	**WG-38443-050818-GL-004**	**GW-038443-061413-SM-021**	**WG-38443-050818-GL-002**	**GW-038443-061413-SM-020**	**WG-38443-050718-GL-001**	**GW-038443-061413-SM-022**
Sample Date:								**6/13/2013**	**5/8/2018**	**5/8/2018**	**6/14/2013**	**5/8/2018**	**6/14/2013**	**5/7/2018**	**6/14/2013**
Sample Depth:								**22.5-26.5 ft BGS**	**26-30 ft BGS**	**26-30 ft BGS Duplicate**	**21.5-25.5 ft BGS**	**27.5-31.5 ft BGS**	**22.75-26.75 ft BGS**	**26.5-30.5 ft BGS**	**21.3-25.3 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
2,4,5-Trichlorophenol	ug/L	-	120	88	0	ND	ND	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	1.2	88	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	4.6	88	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	36	88	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	3.9	88	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	0.24	88	0	ND	ND	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	0.049	88	0	ND	ND	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	75	88	0	ND	ND	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	9.1	88	0	ND	ND	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	3.6	88	10	0.13	56	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	93	88	0	ND	ND	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	19	88	0	ND	ND	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	88	0	ND	ND	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	29	0	ND	ND	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	0.13	86	0	ND	ND	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	88	0	ND	ND	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	0.15	88	0	ND	ND	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	88	0	ND	ND	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	140	88	0	ND	ND	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	0.37	88	0	ND	ND	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	88	0	ND	ND	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	190	59	2	1.5	1.7	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	3.8	88	0	ND	ND	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	88	0	ND	ND	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	53	88	5	0.21	10	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	88	0	ND	ND	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	190	86	0	ND	ND	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	180	88	4	0.21	1.3	-	-	-	-	-	-	-	-
Atrazine	ug/L	3	0.3	86	0	ND	ND	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	19	86	0	ND	ND	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	0.03	88	4	0.21	1.3	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	0.2	0.025	88	5	0.56	1.1	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	0.25	88	5	0.17	1.2	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	88	3	0.29	0.9	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	2.5	88	3	0.29	0.45	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	0.083	86	2	0.41	1.2	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	5.9	88	0	ND	ND	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	0.014	88	0	ND	ND	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6	5.6	88	11	0.85	160	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	16	88	1	1.1	1.1	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	990	85	10	0.34	20	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	86	3	0.7	3.3	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	25	88	4	0.2	1.7	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	0.025	88	1	0.3	0.3	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	0.79	88	4	0.24	3.2	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	1500	88	4	0.68	1.3	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	88	0	ND	ND	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	90	88	4	0.76	3.5	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	20	88	1	1	1	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	80	88	9	0.19	5.2	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	29	88	5	0.29	2.2	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	1	0.0098	88	0	ND	ND	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	0.14	88	0	ND	ND	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	50	0.041	84	0	ND	ND	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	0.33	88	0	ND	ND	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	0.25	88	4	0.24	0.88	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	78	88	0	ND	ND	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:								BH1-13	BH01-18	BH01-18	BH2-13	BH02-18	BH3-13	BH03-18	BH4-13
Sample ID:								GW-38443-061313-SM-016	WG-38443-050818-GL-003	WG-38443-050818-GL-004	GW-038443-061413-SM-021	WG-38443-050818-GL-002	GW-038443-061413-SM-020	WG-38443-050718-GL-001	GW-038443-061413-SM-022
Sample Date:								6/13/2013	5/8/2018	5/8/2018	6/14/2013	5/8/2018	6/14/2013	5/7/2018	6/14/2013
Sample Depth:								22.5-26.5 ft BGS	26-30 ft BGS	26-30 ft BGS	21.5-25.5 ft BGS	27.5-31.5 ft BGS	22.75-26.75 ft BGS	26.5-30.5 ft BGS	21.3-25.3 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Naphthalene	ug/L	-	0.17	187	18	0.19	17	1.0 U	-	-	1.0 U	-	1.0 U	-	1.0 U
Nitrobenzene	ug/L	-	0.14	88	0	ND	ND	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	0.011	88	0	ND	ND	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	12	88	0	ND	ND	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	1	0.041	87	0	ND	ND	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	88	10	0.14	5.9	-	-	-	-	-	-	-	-
Phenol	ug/L	-	580	88	1	130	130	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	12	88	7	0.24	3.9	-	-	-	-	-	-	-	-
Metals															
Aluminum	ug/L	-	2000	88	67	39	62000	-	540	530	-	5700[b]	-	790	-
Aluminum (dissolved)	ug/L	-	2000	92	22	34	8700	200 U	34 U	34 U	200 U	260	-	160	200 U
Antimony	ug/L	6	0.78	88	27	0.22	23	-	0.57 U	0.57 U	-	1.8 J[b]	-	1.3 J[b]	-
Antimony (dissolved)	ug/L	6	0.78	92	12	0.73	3.3	10 U	0.57 U	0.57 U	10 U	0.89 J[b]	-	0.86 J[b]	10 U
Arsenic	ug/L	10	0.052	177	157	0.56	3200	-	0.95 J[b]	1.1 J[b]	-	11[ab]	-	0.75 U	-
Arsenic (dissolved)	ug/L	10	0.052	98	61	0.66	230	10 U	0.75 U	0.75 U	10 U	1.2 J[b]	-	0.75 U	10 U
Barium	ug/L	2000	380	101	93	97	5000	-	170	170	-	360	-	250	-
Barium (dissolved)	ug/L	2000	380	92	92	85	5200	120 J	160	170	130 J	220	-	220	430[b]
Beryllium	ug/L	4	2.5	88	26	0.31	4.3	-	0.33 J	0.31 U	-	0.81 J	-	0.35 J	-
Beryllium (dissolved)	ug/L	4	2.5	92	5	0.32	0.86	5.0 U	0.31 U	0.31 U	5.0 U	0.31 U	-	0.31 U	5.0 U
Cadmium	ug/L	5	0.92	101	22	0.22	14	-	0.21 U	0.21 U	-	0.68 J	-	0.31 J	-
Cadmium (dissolved)	ug/L	5	0.92	92	7	0.21	0.49	2.0 U	0.21 U	0.21 J	2.0 U	0.21 U	-	0.21 U	2.0 U
Calcium	ug/L	-	-	88	88	19000	1400000	-	200000	210000	-	240000	-	170000	-
Calcium (dissolved)	ug/L	-	-	92	92	16000	280000	140000	200000	210000	140000	210000	-	160000	160000
Chromium	ug/L	100	-	101	50	1	610	-	1.6 J	1.6 J	-	18	-	3.2	-
Chromium (dissolved)	ug/L	100	-	92	14	1.1	22	5.0 U	0.98 U	0.98 U	5.0 U	1.4 J	-	1.5 J	5.0 U
Cobalt	ug/L	-	0.6	88	66	0.3	72	-	1.1[b]	1.1[b]	-	4.4[b]	-	2.4[b]	-
Cobalt (dissolved)	ug/L	-	0.6	92	65	0.19	33	7.0 U	0.76 J[b]	0.95 J[b]	2.7 J[b]	1.4[b]	-	1.6[b]	7.0 U
Copper	ug/L	1300	80	88	51	1.7	1900	-	4.5	2.8 J	-	330[b]	-	11	-
Copper (dissolved)	ug/L	1300	80	92	33	1.8	39	25 U	4.0	5.1 J	25 U	39	-	9.1	25 U
Iron	ug/L	-	1400	88	83	56	390000	-	1300	1300	-	15000[b]	-	2400[b]	-
Iron (dissolved)	ug/L	-	1400	104	95	64	28000	700	340	350	540	2100[b]	-	740	110
Lead	ug/L	15	15	177	132	0.34	1940	-	0.45 U	0.45 U	-	24[ab]	-	1.2	-
Lead (dissolved)	ug/L	15	15	98	21	0.2	20	3.0 U	0.45 U	0.45 U	3.0 U	2.1	-	0.45 J	3.0 U
Magnesium	ug/L	-	-	88	88	4330	450000	-	42000	42000	-	77000	-	80000	-
Magnesium (dissolved)	ug/L	-	-	92	92	5900	110000	48000	41000	42000	44000	63000	-	74000	52000
Manganese	ug/L	-	43	88	87	2.5	15000	-	220[b]	240[b]	-	1700[b]	-	280[b]	-
Manganese (dissolved)	ug/L	-	43	92	90	0.65	2400	120[b]	170[b]	180[b]	310[b]	430[b]	-	160[b]	370[b]
Manganese 2+	ug/L	-	-	11	8	119	1241	-	-	-	-	-	-	-	-
Mercury	ug/L	2	0.063	93	4	0.24	0.56	-	0.13 U	0.13 U	-	0.13 U	-	0.13 U	-
Mercury (dissolved)	ug/L	2	0.063	92	0	ND	ND	0.20 U	0.13 U	0.13 U	0.20 U	0.13 U	-	0.13 U	0.20 U
Nickel	ug/L	-	39	88	62	1.5	300	-	6.6	7.1	-	40[b]	-	18	-
Nickel (dissolved)	ug/L	-	39	92	58	1.5	28	6.5 J	5.5	6.0	8.6 J	20	-	13	15 J
Potassium	ug/L	-	-	88	87	1300	114000	-	1300	1300	-	8600	-	14000	-
Potassium (dissolved)	ug/L	-	-	92	91	1100	65000	9400	1100	1200	9000	7100	-	14000	10000
Selenium	ug/L	50	10	93	38	1	25.3	-	8.6	8.8	-	15[b]	-	7.0	-
Selenium (dissolved)	ug/L	50	10	92	28	1.1	26.3	26[b]	9.0	9.2	24[b]	15[b]	-	6.5	6.6
Silver	ug/L	-	9.4	93	16	0.06	4.1	-	0.053 U	0.053 U	-	0.17 J	-	0.053 U	-
Silver (dissolved)	ug/L	-	9.4	92	4	0.054	0.072	5.0 U	0.053 U	0.053 U	5.0 U	0.053 U	-	0.053 U	5.0 U
Sodium	ug/L	-	-	88	88	11000	500000	-	11000	11000	-	32000	-	29000	-
Sodium (dissolved)	ug/L	-	-	92	92	12000	530000	130000	12000	12000	130000	31000	-	28000	120000
Thallium	ug/L	2	0.02	88	26	0.2	4.4	-	0.20 U	0.20 U	-	0.66 J[b]	-	0.30 J[b]	-
Thallium (dissolved)	ug/L	2	0.02	92	14	0.21	6.7	10 U	0.20 U	0.20 U	10 U	0.21 J[b]	-	0.21 J[b]	10 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:								BH1-13	BH01-18	BH01-18	BH2-13	BH02-18	BH3-13	BH03-18	BH4-13
Sample ID:								GW-38443-061313-SM-016	WG-38443-050818-GL-003	WG-38443-050818-GL-004	GW-038443-061413-SM-021	WG-38443-050818-GL-002	GW-038443-061413-SM-020	WG-38443-050718-GL-001	GW-038443-061413-SM-022
Sample Date:								6/13/2013	5/8/2018	5/8/2018	6/14/2013	5/8/2018	6/14/2013	5/7/2018	6/14/2013
Sample Depth:								22.5-26.5 ft BGS	26-30 ft BGS	26-30 ft BGS	21.5-25.5 ft BGS	27.5-31.5 ft BGS	22.75-26.75 ft BGS	26.5-30.5 ft BGS	21.3-25.3 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Vanadium	ug/L	-	8.6	88	38	0.83	160	-	1.4 J	1.3 J	-	13[b]	-	2.0 J	-
Vanadium (dissolved)	ug/L	-	8.6	92	11	0.92	20	7.0 U	0.82 U	0.82 U	7.0 U	0.82 U	-	0.82 U	7.0 U
Zinc	ug/L	-	600	88	47	10	5500	-	15 U	15 U	-	310	-	17 J	-
Zinc (dissolved)	ug/L	-	600	92	41	34	4400	50 U	15 U	15 U	50 U	43	-	15 U	50 U
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	-	0.14	76	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	0.0047	76	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	0.0047	76	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	0.0078	76	2	0.063	0.19	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	0.0078	76	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	0.0078	76	3	0.051	0.3	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	0.0078	76	2	0.16	0.19	-	-	-	-	-	-	-	-
Pesticides															
4,4'-DDD	ug/L	-	0.0063	49	0	ND	ND	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	0.046	49	2	0.017	0.023	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	0.23	49	0	ND	ND	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	0.00092	49	0	ND	ND	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	0.0072	49	1	0.034	0.034	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	49	0	ND	ND	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	0.025	49	3	0.011	0.049	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	49	3	0.013	0.02	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	0.0018	49	0	ND	ND	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	49	1	0.032	0.032	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	49	0	ND	ND	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	11	49	0	ND	ND	-	-	-	-	-	-	-	-
Endrin	ug/L	2	0.23	49	0	ND	ND	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	49	0	ND	ND	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	49	0	ND	ND	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	0.2	0.042	49	0	ND	ND	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	49	0	ND	ND	-	-	-	-	-	-	-	-
Heptachlor	ug/L	0.4	0.0014	49	2	0.0082	0.051	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	0.2	0.0014	49	0	ND	ND	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	40	3.7	49	0	ND	ND	-	-	-	-	-	-	-	-
Toxaphene	ug/L	3	0.071	49	0	ND	ND	-	-	-	-	-	-	-	-
Gases															
Ethane	ug/L	-	-	25	19	0.31	5600	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	24	4	0.58	4000	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	33	32	0.5	5700	-	-	-	-	-	-	-	-
Herbicides															
2,4,5-T	ug/L	-	16	14	0	ND	ND	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	50	11	33	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	70	17	33	0	ND	ND	-	-	-	-	-	-	-	-
Petroleum Products															
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	3	0	ND	ND	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	3	0	ND	ND	-	-	-	-	-	-	-	-
General Chemistry															
Alkalinity, total (as CaCO3)	ug/L	-	-	24	24	270000	800000	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	12	9	300	5400	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	87	87	11000	350000	-	11000	11000	-	25000	-	42000	-
Cyanide (total)	ug/L	200	0.15	38	10	7.4	580	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	12	12	2000	17000	-	-	-	-	-	-	-	-

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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:								BH1-13	BH01-18	BH01-18	BH2-13	BH02-18	BH3-13	BH03-18	BH4-13
Sample ID:								GW-38443-061313-SM-016	WG-38443-050818-GL-003	WG-38443-050818-GL-004	GW-038443-061413-SM-021	WG-38443-050818-GL-002	GW-038443-061413-SM-020	WG-38443-050718-GL-001	GW-038443-061413-SM-022
Sample Date:								6/13/2013	5/8/2018	5/8/2018	6/14/2013	5/8/2018	6/14/2013	5/7/2018	6/14/2013
Sample Depth:								22.5-26.5 ft BGS	26-30 ft BGS	26-30 ft BGS	21.5-25.5 ft BGS	27.5-31.5 ft BGS	22.75-26.75 ft BGS	26.5-30.5 ft BGS	21.3-25.3 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Hardness	ug/L	-	-	11	11	291000	673000	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	10000	3200	87	39	20	19000	-	8000[b]	7600[b]	-	17000[ab]	-	3000	-
Nitrite (as N)	ug/L	1000	200	75	13	17	140	-	35 J	28 J	-	140	-	19 J	-
Sulfate	ug/L	-	-	87	82	1300	250000	-	39000	39000	-	130000	-	180000	-
Sulfide (acid soluble)	ug/L	-	-	9	0	ND	ND	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	12	11	2000	11000	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH04-18	BH5-13	BH05-18	BH6-13	BH06-18	BH7-13	BH07-18	BH8-13	BH08-18	BH9-13	BH09-18
Sample ID:		WG-38443-050818-GL-005	GW-038443-061413-SM-019	WG-38443-051018-GL-009	GW-38443-061313-GL-017	WG-38443-051018-GL-007	GW-38443-061213-GL-011	WG-38443-051018-GL-008	GW-38443-061313-GL-014	WG-38443-051118-GL-010	GW-38443-061113-GL-001	WG-38443-051418-GL-012
Sample Date:		5/8/2018	6/14/2013	5/10/2018	6/13/2013	5/10/2018	6/12/2013	5/10/2018	6/13/2013	5/11/2018	6/11/2013	5/14/2018
Sample Depth:		25.5-29.5 ft BGS	21-25 ft BGS	27.5-31.5 ft BGS	22-26 ft BGS	28-32 ft BGS	22-26 ft BGS	28-32 ft BGS	22.5-26.5 ft BGS	22.3-26.3 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U
1,1-Dichloroethane	ug/L	0.25 U	1.0 U	0.25 U	1.0 U	0.30 J	1.0 U	0.25 U	1.0 U	0.25 U	0.27 J	0.25 U
1,1-Dichloroethene	ug/L	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	1.0 U	0.0087 U	1.0 U	0.0087 U	1.0 U	0.0087 U	1.0 U	0.0087 U	1.0 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	1.0 U	0.23 U	1.0 U	1.4 [b]	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U
2-Hexanone	ug/L	1.2 U	10 U	1.2 U	10 U	1.2 U	10 U	1.2 U	10 U	1.2 U	10 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U
Acetone	ug/L	1.8 U	10 U	1.8 U	10 U	1.8 U	10 U	1.8 U	10 U	1.8 U	10 U	1.8 U
Benzene	ug/L	0.28 U	1.0 U	0.28 U	1.0 U	0.28 U	1.0 U	0.28 U	1.0 U	0.28 U	0.17 J	0.28 J
Bromodichloromethane	ug/L	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
Bromoform	ug/L	0.43 U	1.0 UJ	0.43 U	1.0 UJ	0.43 U	1.0 U	0.43 U	1.0 UJ	0.43 U	1.0 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	0.42 U	1.0 UJ	0.42 U	1.0 UJ	0.42 U	1.0 U	0.42 U	1.0 UJ	0.42 U	1.0 U	0.42 U
Carbon disulfide	ug/L	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U
Carbon tetrachloride	ug/L	0.35 U	1.0 U	0.35 U	1.0 U	0.35 U	1.0 U	0.35 U	1.0 U	0.35 U	1.0 U	0.35 U
Chlorobenzene	ug/L	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	2.9
Chloroethane	ug/L	0.41 U	1.0 UJ	0.41 U	1.0 UJ	0.41 U	1.0 U	0.41 U	1.0 UJ	0.41 U	1.0 U	0.41 U
Chloroform (Trichloromethane)	ug/L	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.30 U	1.0 U	0.93 J	1.0 U	1.4	1.0 U	0.30 U	1.0 U	4.1 [b]	0.37 J	2.1
cis-1,3-Dichloropropene	ug/L	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U
Cyclohexane	ug/L	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U
Dibromochloromethane	ug/L	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U
Ethylbenzene	ug/L	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U
Isopropyl benzene	ug/L	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U
m&p-Xylenes	ug/L	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U
Methyl acetate	ug/L	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U
Methyl cyclohexane	ug/L	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
Methylene chloride	ug/L	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U
o-Xylene	ug/L	0.28 U	-	0.28 U	-	0.28 U	-	0.28 U	-	0.28 U	-	0.28 U
Styrene	ug/L	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
Tetrachloroethene	ug/L	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.55 J	1.0 U	0.30 U
Toluene	ug/L	0.35 J	1.0 U	0.31 J	1.0 U	0.23 U	0.18 J	0.23 U	1.0 U	0.23 U	0.27 J	0.23 U
trans-1,2-Dichloroethene	ug/L	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U
trans-1,3-Dichloropropene	ug/L	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U
Trichloroethene	ug/L	0.33 U	1.0 U	0.53 J [b]	1.0 U	0.33 U	1.0 U	0.33 U	1.0 U	4.1 [b]	1.0 U	0.33 U
Trichlorofluoromethane (CFC-11)	ug/L	0.50 U	1.0 UJ	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	1.0 U	0.41 U	1.0 U	0.41 U	1.0 U	0.41 U	1.0 U	0.41 U	1.0 U	0.41 U
Vinyl chloride	ug/L	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	15 [ab]
Xylenes (total)	ug/L	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	0.40 U	-	0.41 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH04-18**	**BH5-13**	**BH05-18**	**BH6-13**	**BH06-18**	**BH7-13**	**BH07-18**	**BH8-13**	**BH08-18**	**BH9-13**	**BH09-18**
Sample ID:		**WG-38443-050818-GL-005**	**GW-038443-061413-SM-019**	**WG-38443-051018-GL-009**	**GW-38443-061313-GL-017**	**WG-38443-051018-GL-007**	**GW-38443-061213-GL-011**	**WG-38443-051018-GL-008**	**GW-38443-061313-GL-014**	**WG-38443-051118-GL-010**	**GW-38443-061113-GL-001**	**WG-38443-051418-GL-012**
Sample Date:		**5/8/2018**	**6/14/2013**	**5/10/2018**	**6/13/2013**	**5/10/2018**	**6/12/2013**	**5/10/2018**	**6/13/2013**	**5/11/2018**	**6/11/2013**	**5/14/2018**
Sample Depth:		**25.5-29.5 ft BGS**	**21-25 ft BGS**	**27.5-31.5 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22.5-26.5 ft BGS**	**22.3-26.3 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	0.30 U	-	0.31 U
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	0.24 U	-	0.24 U
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	0.19 U	-	0.19 U
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	0.25 U	-	0.26 U
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	0.32 U	-	0.33 U
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	0.25 U	-	0.26 U
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	0.81 U	-	0.82 U
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	0.10 U	-	0.10 U
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	0.29 U	-	0.30 U
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	0.091 U	-	0.092 U
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	0.17 U	-	0.17 U
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	0.21 U	-	0.21 U
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	0.28 U	-	0.29 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	0.81 U	-	0.82 U
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	0.37 U	-	0.38 U
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	0.28 U	-	0.29 U
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	2.4 U	-	2.4 U
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	0.22 U	-	0.22 U
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	0.21 U	-	0.21 U
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	0.21 U	-	0.21 U
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	0.30 U	-	0.31 U
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	0.22 U	-	0.22 U
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	0.29 U	-	0.30 U
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	0.045 U	-	0.045 U
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	0.049 U	-	0.049 U
Acetophenone	ug/L	-	-	-	-	-	-	-	-	0.34 U	-	0.35 U
Anthracene	ug/L	-	-	-	-	-	-	-	-	0.089 U	-	0.090 U
Atrazine	ug/L	-	-	-	-	-	-	-	-	0.34 U	-	0.35 U
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	0.39 U	-	0.40 U
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	0.030 U	-	0.030 U
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	0.052 U	-	0.052 U
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	0.040 U	-	0.040 U
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	0.047 U	-	0.047 U
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	0.045 U	-	0.046 U
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	0.13 U	-	0.13 U
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	0.32 U	-	0.33 U
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	0.10 U	-	0.10 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	1.7 U	-	1.7 U
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	0.26 U	-	0.27 U
Caprolactam	ug/L	-	-	-	-	-	-	-	-	0.20 U	-	0.20 U
Carbazole	ug/L	-	-	-	-	-	-	-	-	0.28 U	-	0.29 U
Chrysene	ug/L	-	-	-	-	-	-	-	-	0.051 U	-	0.051 U
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	0.045 U	-	0.046 U
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	0.020 U	-	0.020 U
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	0.61 U	-	0.61 U
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	0.29 U	-	0.30 U
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	1.7 U	-	1.7 U
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	0.23 U	-	0.23 U
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	0.045 U	-	0.046 U
Fluorene	ug/L	-	-	-	-	-	-	-	-	0.041 U	-	0.041 U
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	0.086 U	-	0.087 U
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	0.27 U	-	0.28 U
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	0.24 U	-	0.24 U
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	0.19 U	-	0.19 U
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	0.044 U	-	0.044 U
Isophorone	ug/L	-	-	-	-	-	-	-	-	0.27 U	-	0.28 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH04-18**	**BH5-13**	**BH05-18**	**BH6-13**	**BH06-18**	**BH7-13**	**BH07-18**	**BH8-13**	**BH08-18**	**BH9-13**	**BH09-18**
Sample ID:		**WG-38443-050818-GL-005**	**GW-038443-061413-SM-019**	**WG-38443-051018-GL-009**	**GW-38443-061313-GL-017**	**WG-38443-051018-GL-007**	**GW-38443-061213-GL-011**	**WG-38443-051018-GL-008**	**GW-38443-061313-GL-014**	**WG-38443-051118-GL-010**	**GW-38443-061113-GL-001**	**WG-38443-051418-GL-012**
Sample Date:		**5/8/2018**	**6/14/2013**	**5/10/2018**	**6/13/2013**	**5/10/2018**	**6/12/2013**	**5/10/2018**	**6/13/2013**	**5/11/2018**	**6/11/2013**	**5/14/2018**
Sample Depth:		**25.5-29.5 ft BGS**	**21-25 ft BGS**	**27.5-31.5 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22.5-26.5 ft BGS**	**22.3-26.3 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Naphthalene	ug/L	-	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	0.063 U	1.0 U	0.064 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	0.040 U	-	0.041 U
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	0.24 U	-	0.24 U
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	0.31 U	-	0.32 U
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	0.27 U	-	0.28 U
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	0.063 U	-	0.063 U
Phenol	ug/L	-	-	-	-	-	-	-	-	0.61 U	-	0.61 U
Pyrene	ug/L	-	-	-	-	-	-	-	-	0.042 U	-	0.043 U
Metals												
Aluminum	ug/L	430	-	2200 U	-	**5000[b]**	-	**3200[b]**	-	1100	-	160
Aluminum (dissolved)	ug/L	51	-	2200 U	-	2200 U	-	2200 U	-	1100	-	34 U
Antimony	ug/L	0.57 U	-	0.57 U	-	1.1 U	-	0.57 U	-	0.57 U	-	0.57 U
Antimony (dissolved)	ug/L	0.57 U	-	0.57 U	-	1.1 U	-	0.57 U	-	0.57 U	-	0.57 U
Arsenic	ug/L	0.75 U	-	2.4 U	-	**5.9[b]**	-	2.9 U	-	**7.5[b]**	-	**19[ab]**
Arsenic (dissolved)	ug/L	0.75 U	-	0.75 U	-	2.4 U	-	0.75 U	-	**7.3[b]**	-	**18[ab]**
Barium	ug/L	170	-	180	-	280	-	190	-	220	-	230
Barium (dissolved)	ug/L	170	-	140	-	110	-	140	-	230	-	230
Beryllium	ug/L	0.31 U	-	0.31 U	-	0.53 U	-	0.52 U	-	0.31 U	-	0.49 J
Beryllium (dissolved)	ug/L	0.31 U	-	0.31 U	-	0.57 U	-	0.31 U	-	0.31 U	-	0.31 U
Cadmium	ug/L	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.21 U	-	0.48 J
Cadmium (dissolved)	ug/L	0.21 U	-	0.21 U	-	0.38 U	-	0.21 U	-	0.21 U	-	0.24 J
Calcium	ug/L	230000	-	200000	-	150000	-	300000	-	220000	-	97000
Calcium (dissolved)	ug/L	220000	-	190000	-	120000	-	280000	-	200000	-	98000
Chromium	ug/L	1.4 J	-	30 U	-	30 U	-	30 U	-	2.6	-	2.7
Chromium (dissolved)	ug/L	0.98 U	-	0.98 U	-	0.98 U	-	0.98 U	-	2.9	-	0.98 U
Cobalt	ug/L	**1.0[b]**	-	3.2 U	-	**9.0[b]**	-	2.8 U	-	**4.2[b]**	-	**1.3[b]**
Cobalt (dissolved)	ug/L	**0.71 J[b]**	-	2.8 U	-	**4.9[b]**	-	2.8 U	-	**4.7[b]**	-	**0.96 J[b]**
Copper	ug/L	1.7 U	-	52 U	-	52 U	-	52 U	-	3.3 J	-	3.7
Copper (dissolved)	ug/L	1.7 U	-	52 U	-	52 U	-	52 U	-	6.3 J	-	1.7 U
Iron	ug/L	1400	-	7300 U	-	**10000[b]**	-	7300 U	-	**3300 J[b]**	-	**11000[b]**
Iron (dissolved)	ug/L	610	-	7300 U	-	7300 U	-	7300 U	-	**4100 J[b]**	-	**8900[b]**
Lead	ug/L	0.45 U	-	6.6	-	4.3 U	-	3.8 U	-	1.5	-	1.6
Lead (dissolved)	ug/L	0.45 U	-	0.45 U	-	0.45 U	-	0.45 U	-	1.7	-	0.45 U
Magnesium	ug/L	48000	-	86000	-	120000	-	67000	-	55000	-	42000
Magnesium (dissolved)	ug/L	43000	-	84000	-	110000	-	58000	-	46000	-	41000
Manganese	ug/L	**120[b]**	-	**540[b]**	-	**1300[b]**	-	220 U	-	**430[b]**	-	**210[b]**
Manganese (dissolved)	ug/L	**87[b]**	-	**480[b]**	-	**1200[b]**	-	200 U	-	**370[b]**	-	**160[b]**
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U
Mercury (dissolved)	ug/L	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U
Nickel	ug/L	8.3	-	32 U	-	32 U	-	32 U	-	7.3 J	-	2.2
Nickel (dissolved)	ug/L	8.1	-	32 U	-	32 U	-	32 U	-	14 J	-	1.5 U
Potassium	ug/L	1600	-	18000	-	26000	-	3500 U	-	9600	-	14000
Potassium (dissolved)	ug/L	1600	-	18000	-	24000	-	3300 U	-	9100	-	14000
Selenium	ug/L	**25[b]**	-	2.3 U	-	1.4 U	-	2.9 U	-	5.6	-	1.1 J
Selenium (dissolved)	ug/L	**26[b]**	-	2.4 U	-	0.89 U	-	2.5 U	-	5.5	-	0.89 U
Silver	ug/L	0.053 U	-	0.053 U	-	0.053 U	-	0.053 U	-	0.072 J	-	0.053 U
Silver (dissolved)	ug/L	0.053 U	-	0.053 U	-	0.053 U	-	0.053 U	-	0.054 J	-	0.053 U
Sodium	ug/L	39000	-	52000	-	100000	-	46000	-	43000	-	70000
Sodium (dissolved)	ug/L	40000	-	55000	-	100000	-	45000	-	42000	-	69000
Thallium	ug/L	0.20 U	-	0.20 U	-	0.60 U	-	0.20 U	-	0.20 U	-	**0.20 J[b]**
Thallium (dissolved)	ug/L	0.20 U	-	0.20 U	-	0.39 U	-	0.20 U	-	0.20 U	-	0.20 U

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Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH04-18	BH5-13	BH05-18	BH6-13	BH06-18	BH7-13	BH07-18	BH8-13	BH08-18	BH9-13	BH09-18
Sample ID:		WG-38443-050818-GL-005	GW-038443-061413-SM-019	WG-38443-051018-GL-009	GW-38443-061313-GL-017	WG-38443-051018-GL-007	GW-38443-061213-GL-011	WG-38443-051018-GL-008	GW-38443-061313-GL-014	WG-38443-051118-GL-010	GW-38443-061113-GL-001	WG-38443-051418-GL-012
Sample Date:		5/8/2018	6/14/2013	5/10/2018	6/13/2013	5/10/2018	6/12/2013	5/10/2018	6/13/2013	5/11/2018	6/11/2013	5/14/2018
Sample Depth:		25.5-29.5 ft BGS	21-25 ft BGS	27.5-31.5 ft BGS	22-26 ft BGS	28-32 ft BGS	22-26 ft BGS	28-32 ft BGS	22.5-26.5 ft BGS	22.3-26.3 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	1.4 J	-	5.8 U	-	14[b]	-	7.5 U	-	2.8 J	-	0.89 J
Vanadium (dissolved)	ug/L	0.82 U	-	0.82 U	-	0.82 U	-	0.82 U	-	2.8 J	-	0.82 U
Zinc	ug/L	15 U	-	170 U	-	170 U	-	170 U	-	20 J	-	15 U
Zinc (dissolved)	ug/L	15 U	-	170 U	-	170 U	-	170 U	-	34 J	-	15 U
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	0.056 U	-	0.056 U
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	0.057 U	-	0.057 U
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	0.074 U	-	0.074 U
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	0.076 U	-	0.076 U
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	0.050 U	-	0.050 U
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	0.040 U	-	0.040 U
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	0.046 U	-	0.046 U
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	40000	-	60000	-	150000	-	52000	-	63000	-	63000
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	390[ab]	-	12 U
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH04-18**	**BH5-13**	**BH05-18**	**BH6-13**	**BH06-18**	**BH7-13**	**BH07-18**	**BH8-13**	**BH08-18**	**BH9-13**	**BH09-18**
Sample ID:		**WG-38443-050818-GL-005**	**GW-038443-061413-SM-019**	**WG-38443-051018-GL-009**	**GW-38443-061313-GL-017**	**WG-38443-051018-GL-007**	**GW-38443-061213-GL-011**	**WG-38443-051018-GL-008**	**GW-38443-061313-GL-014**	**WG-38443-051118-GL-010**	**GW-38443-061113-GL-001**	**WG-38443-051418-GL-012**
Sample Date:		**5/8/2018**	**6/14/2013**	**5/10/2018**	**6/13/2013**	**5/10/2018**	**6/12/2013**	**5/10/2018**	**6/13/2013**	**5/11/2018**	**6/11/2013**	**5/14/2018**
Sample Depth:		**25.5-29.5 ft BGS**	**21-25 ft BGS**	**27.5-31.5 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22.5-26.5 ft BGS**	**22.3-26.3 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	**19000**[ab]	-	310 J	-	150 J	-	**16000**[ab]	-	510	-	14 U
Nitrite (as N)	ug/L	27 J	-	14 U	-	14 U	-	39 J	-	48 J	-	14 U
Sulfate	ug/L	75000	-	130000	-	140000	-	250000	-	100000	-	21000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH10-13	BH10-18	BH11-13	BH12-13	BH13-13	BH14-13	BH14-18	BH15-13	BH16-13	BH16-13	BH16-13
Sample ID:		GW-38443-061113-SM-002	WG-38443-051118-GL-011	GW-38443-061113-GL-003	GW-38443-061113-SM-006	GW-38443-061213-SM-007	GW-38443-061113-GL-005	GW-38443-091718-JC-171	GW-38443-061213-GL-013	GW-38443-061213-GL-008	GW-38443-061213-GL-009	GW-38443-071013-JT-108
Sample Date:		6/11/2013	5/11/2018	6/11/2013	6/11/2013	6/12/2013	6/11/2013	9/17/2018	6/12/2013	6/12/2013	6/12/2013	7/10/2013
Sample Depth:		21.5-25.5 ft BGS	38-42 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	35-40 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS Duplicate	29.5-33.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	0.23 U	1.0 U	0.26 J	0.53 J	0.32 J	0.24 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 UJ	1.0 U	1.0 U	1.0 U	2.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	0.090 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethane	ug/L	1.0 U	0.25 U	0.31 J	1.0 U	1.0 U	1.0 U	1.6 J	0.20 J	1.0 U	1.0 U	2.0 U
1,1-Dichloroethene	ug/L	1.0 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 UJ	1.0 U	1.0 U	1.0 U	0.47 J
1,2,4-Trichlorobenzene	ug/L	1.0 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	0.0086 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0086 U	2.0 U	2.0 U	2.0 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	0.0087 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0087 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichloroethane	ug/L	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 UJ	1.0 U	1.0 U	1.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	1.0 U	10 U	10 U	10 U	10 U	1.2 UJ	10 U	10 U	10 U	4.7 J
2-Hexanone	ug/L	10 U	1.2 U	10 U	10 U	10 U	10 U	0.54 UJ	10 U	10 U	10 U	20 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	0.71 U	10 U	10 U	10 U	10 U	0.42 UJ	10 U	10 U	10 U	20 UJ
Acetone	ug/L	10 U	7.5 J	10 U	10 U	10 U	10 U	5.4 UJ	10 U	10 U	10 U	20 U
Benzene	ug/L	1.0 U	0.28 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U	1.0 U	1.0 U	2.0 U
Bromodichloromethane	ug/L	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Bromoform	ug/L	1.0 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U	0.76 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	0.42 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42 UJ	1.0 U	1.0 U	1.0 U	2.0 UJ
Carbon disulfide	ug/L	1.0 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	0.66 J	1.0 U	1.0 U	1.0 U	2.0 U
Carbon tetrachloride	ug/L	1.0 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 UJ	1.0 U	1.0 U	1.0 U	2.0 UJ
Chlorobenzene	ug/L	1.0 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9 J	1.0 U	1.0 U	1.0 U	2.0 U
Chloroethane	ug/L	1.0 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	0.89 J	1.0 U	1.0 U	1.0 U	2.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 UJ	1.0 U	1.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.2	1.0 U	1.0 U	1.0 U	1.0 U	**5.9 J[b]**	1.0 U	1.0 U	1.0 U	**15[b]**
cis-1,3-Dichloropropene	ug/L	1.0 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	0.61 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Cyclohexane	ug/L	1.0 U	0.44 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U	2.0 U
Dibromochloromethane	ug/L	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Ethylbenzene	ug/L	1.0 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	2.0 U
Isopropyl benzene	ug/L	1.0 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	2.0 U
m&p-Xylenes	ug/L	-	0.24 U	-	-	-	-	0.74 J	-	-	-	-
Methyl acetate	ug/L	10 U	1.4 U	10 U	10 U	10 U	10 U	1.7 UJ	10 U	10 U	10 U	20 UJ
Methyl cyclohexane	ug/L	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	0.47 J	1.0 U	1.0 U	1.0 U	2.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	0.070 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Methylene chloride	ug/L	1.0 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 UJ	1.0 U	1.0 U	1.0 U	2.0 U
o-Xylene	ug/L	-	0.28 U	-	-	-	-	0.28 J	-	-	-	-
Styrene	ug/L	1.0 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Tetrachloroethene	ug/L	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Toluene	ug/L	0.18 J	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3 J	1.0 U	1.0 U	1.0 U	2.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	0.29 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 J	1.0 U	1.0 U	1.0 U	0.72 J
trans-1,3-Dichloropropene	ug/L	1.0 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	0.67 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Trichloroethene	ug/L	1.0 U	0.33 U	1.0 U	1.0 U	1.0 U	0.27 J	**4.3 J[b]**	1.0 U	**0.93 J[b]**	**0.96 J[b]**	**78[ab]**
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 UJ	1.0 U	1.0 U	1.0 U	2.0 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 UJ	1.0 U	1.0 U	1.0 U	2.0 UJ
Vinyl chloride	ug/L	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.9 J[b]**	1.0 U	1.0 U	1.0 U	2.0 U
Xylenes (total)	ug/L	2.0 U	0.24 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 J	2.0 U	2.0 U	2.0 U	4.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	0.42 U	-	-	-	-	0.53 U	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH10-13	BH10-18	BH11-13	BH12-13	BH13-13	BH14-13	BH14-18	BH15-13	BH16-13	BH16-13	BH16-13
Sample ID:		GW-38443-061113-SM-002	WG-38443-051118-GL-011	GW-38443-061113-GL-003	GW-38443-061113-SM-006	GW-38443-061213-SM-007	GW-38443-061113-GL-005	GW-38443-091718-JC-171	GW-38443-061213-GL-013	GW-38443-061213-GL-008	GW-38443-061213-GL-009	GW-38443-071013-JT-108
Sample Date:		6/11/2013	5/11/2018	6/11/2013	6/11/2013	6/12/2013	6/11/2013	9/17/2018	6/12/2013	6/12/2013	6/12/2013	7/10/2013
Sample Depth:		21.5-25.5 ft BGS	38-42 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	35-40 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	29.5-33.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	0.31 U	-	-	-	-	1.9 U	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	0.25 U	-	-	-	-	1.7 U	-	-	-	-
2,4-Dichlorophenol	ug/L	-	0.20 U	-	-	-	-	0.25 U	-	-	-	-
2,4-Dimethylphenol	ug/L	-	0.26 U	-	-	-	-	0.50 U	-	-	-	-
2,4-Dinitrophenol	ug/L	-	0.33 U	-	-	-	-	6.0 U	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	0.26 U	-	-	-	-	2.0 U	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	0.83 U	-	-	-	-	2.0 U	-	-	-	-
2-Chloronaphthalene	ug/L	-	0.10 U	-	-	-	-	0.46 U	-	-	-	-
2-Chlorophenol	ug/L	-	0.30 U	-	-	-	-	0.26 U	-	-	-	-
2-Methylnaphthalene	ug/L	-	0.094 U	-	-	-	-	0.46	-	-	-	-
2-Methylphenol	ug/L	-	0.18 U	-	-	-	-	0.20 U	-	-	-	-
2-Nitroaniline	ug/L	-	0.22 U	-	-	-	-	0.49 U	-	-	-	-
2-Nitrophenol	ug/L	-	0.29 U	-	-	-	-	0.54 U	-	-	-	-
3&4-Methylphenol	ug/L	-	0.83 U	-	-	-	-	0.18 U	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	0.39 U	-	-	-	-	1.1 U	-	-	-	-
3-Nitroaniline	ug/L	-	0.29 U	-	-	-	-	0.54 U	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	2.5 U	-	-	-	-	2.7 U	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	0.23 U	-	-	-	-	0.48 U	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	0.22 U	-	-	-	-	0.28 U	-	-	-	-
4-Chloroaniline	ug/L	-	0.22 U	-	-	-	-	0.30 U	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	0.31 U	-	-	-	-	0.53 U	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	0.23 U	-	-	-	-	0.88 U	-	-	-	-
4-Nitrophenol	ug/L	-	0.30 U	-	-	-	-	2.1 U	-	-	-	-
Acenaphthene	ug/L	-	0.046 U	-	-	-	-	0.17 U	-	-	-	-
Acenaphthylene	ug/L	-	0.050 U	-	-	-	-	0.12 U	-	-	-	-
Acetophenone	ug/L	-	0.35 U	-	-	-	-	0.35 U	-	-	-	-
Anthracene	ug/L	-	0.092 U	-	-	-	-	0.13 U	-	-	-	-
Atrazine	ug/L	-	0.35 U	-	-	-	-	0.92 U	-	-	-	-
Benzaldehyde	ug/L	-	0.41 U	-	-	-	-	0.73 U	-	-	-	-
Benzo(a)anthracene	ug/L	-	0.031 U	-	-	-	-	0.16 U	-	-	-	-
Benzo(a)pyrene	ug/L	-	0.054 U	-	-	-	-	0.17 U	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	0.041 U	-	-	-	-	0.17 J	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	0.048 U	-	-	-	-	0.17 U	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	0.047 U	-	-	-	-	0.13 U	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	0.14 U	-	-	-	-	0.47 U	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	0.33 U	-	-	-	-	0.44 U	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	0.10 U	-	-	-	-	0.39 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	1.8 U	-	-	-	-	2.7 J	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	0.27 U	-	-	-	-	0.64 U	-	-	-	-
Caprolactam	ug/L	-	0.21 U	-	-	-	-	0.90 U	-	-	-	-
Carbazole	ug/L	-	0.29 U	-	-	-	-	0.47 U	-	-	-	-
Chrysene	ug/L	-	0.052 U	-	-	-	-	0.18 U	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	0.046 U	-	-	-	-	0.15 U	-	-	-	-
Dibenzofuran	ug/L	-	0.021 U	-	-	-	-	0.54 U	-	-	-	-
Diethyl phthalate	ug/L	-	0.62 U	-	-	-	-	3.7 U	-	-	-	-
Dimethyl phthalate	ug/L	-	0.30 U	-	-	-	-	0.50 U	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	1.8 U	-	-	-	-	1.7 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	0.24 U	-	-	-	-	0.79 U	-	-	-	-
Fluoranthene	ug/L	-	0.046 U	-	-	-	-	0.19	-	-	-	-
Fluorene	ug/L	-	0.042 U	-	-	-	-	0.16 U	-	-	-	-
Hexachlorobenzene	ug/L	-	0.089 U	-	-	-	-	0.15 U	-	-	-	-
Hexachlorobutadiene	ug/L	-	0.28 U	-	-	-	-	0.52 U	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	0.25 U	-	-	-	-	1.7 U	-	-	-	-
Hexachloroethane	ug/L	-	0.20 U	-	-	-	-	0.38 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	0.045 U	-	-	-	-	0.13 U	-	-	-	-
Isophorone	ug/L	-	0.28 U	-	-	-	-	0.31 U	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH10-13**	**BH10-18**	**BH11-13**	**BH12-13**	**BH13-13**	**BH14-13**	**BH14-18**	**BH15-13**	**BH16-13**	**BH16-13**	**BH16-13**
Sample ID:		**GW-38443-061113-SM-002**	**WG-38443-051118-GL-011**	**GW-38443-061113-GL-003**	**GW-38443-061113-SM-006**	**GW-38443-061213-SM-007**	**GW-38443-061113-GL-005**	**GW-38443-091718-JC-171**	**GW-38443-061213-GL-013**	**GW-38443-061213-GL-008**	**GW-38443-061213-GL-009**	**GW-38443-071013-JT-108**
Sample Date:		**6/11/2013**	**5/11/2018**	**6/11/2013**	**6/11/2013**	**6/12/2013**	**6/11/2013**	**9/17/2018**	**6/12/2013**	**6/12/2013**	**6/12/2013**	**7/10/2013**
Sample Depth:		**21.5-25.5 ft BGS**	**38-42 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**35-40 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS Duplicate**	**29.5-33.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Naphthalene	ug/L	1.0 U	0.065 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.33[b]**	1.0 U	1.0 U	1.0 U	2.0 U
Nitrobenzene	ug/L	-	0.042 U	-	-	-	-	0.49 U	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	0.25 U	-	-	-	-	0.24 U	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	0.32 U	-	-	-	-	0.42 U	-	-	-	-
Pentachlorophenol	ug/L	-	0.28 U	-	-	-	-	3.0 U	-	-	-	-
Phenanthrene	ug/L	-	0.064 U	-	-	-	-	0.46	-	-	-	-
Phenol	ug/L	-	0.62 U	-	-	-	-	0.12 U	-	-	-	-
Pyrene	ug/L	-	0.044 U	-	-	-	-	0.24	-	-	-	-
Metals												
Aluminum	ug/L	-	200	-	-	-	-	**39000[b]**	-	-	-	-
Aluminum (dissolved)	ug/L	-	34 U	200 U	-	-	-	34 U	-	-	-	-
Antimony	ug/L	-	0.57 U	-	-	-	-	**23[ab]**	-	-	-	-
Antimony (dissolved)	ug/L	-	0.57 U	10 U	-	-	-	0.57 U	-	-	-	-
Arsenic	ug/L	-	**1.6 J[b]**	-	-	-	-	**110[ab]**	-	-	-	-
Arsenic (dissolved)	ug/L	-	0.75 U	10 U	-	-	-	**22[ab]**	-	-	-	-
Barium	ug/L	-	280	-	-	-	-	**1100[b]**	-	-	-	-
Barium (dissolved)	ug/L	-	290	270	-	-	-	290	-	-	-	-
Beryllium	ug/L	-	0.31 U	-	-	-	-	**2.6[b]**	-	-	-	-
Beryllium (dissolved)	ug/L	-	0.31 U	5.0 U	-	-	-	0.31 U	-	-	-	-
Cadmium	ug/L	-	0.21 U	-	-	-	-	**14[ab]**	-	-	-	-
Cadmium (dissolved)	ug/L	-	0.21 U	2.0 U	-	-	-	0.21 U	-	-	-	-
Calcium	ug/L	-	160000	-	-	-	-	140000	-	-	-	-
Calcium (dissolved)	ug/L	-	160000	160000	-	-	-	80000	-	-	-	-
Chromium	ug/L	-	2.2	-	-	-	-	**610[a]**	-	-	-	-
Chromium (dissolved)	ug/L	-	0.98 U	5.0 U	-	-	-	0.98 U	-	-	-	-
Cobalt	ug/L	-	0.42 J	-	-	-	-	**46[b]**	-	-	-	-
Cobalt (dissolved)	ug/L	-	0.32 J	7.0 U	-	-	-	**1.0[b]**	-	-	-	-
Copper	ug/L	-	1.7 U	-	-	-	-	**1900[ab]**	-	-	-	-
Copper (dissolved)	ug/L	-	1.7 U	25 U	-	-	-	1.7 U	-	-	-	-
Iron	ug/L	-	**4500[b]**	-	-	-	-	**250000[b]**	-	-	-	-
Iron (dissolved)	ug/L	-	**3800[b]**	510	-	-	-	**4800[b]**	-	-	-	-
Lead	ug/L	-	0.66 J	-	-	-	-	**1400[ab]**	-	-	-	-
Lead (dissolved)	ug/L	-	0.45 U	3.0 U	-	-	-	0.45 U	-	-	-	-
Magnesium	ug/L	-	54000	-	-	-	-	88000	-	-	-	-
Magnesium (dissolved)	ug/L	-	54000	51000	-	-	-	64000	-	-	-	-
Manganese	ug/L	-	**620[b]**	-	-	-	-	**15000[b]**	-	-	-	-
Manganese (dissolved)	ug/L	-	**630[b]**	**140[b]**	-	-	-	**330[b]**	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	0.13 U	-	-	-	-	0.32 U	-	-	-	-
Mercury (dissolved)	ug/L	-	0.13 U	0.20 U	-	-	-	0.13 U	-	-	-	-
Nickel	ug/L	-	2.7	-	-	-	-	**300[b]**	-	-	-	-
Nickel (dissolved)	ug/L	-	2.4	13 J	-	-	-	4.5	-	-	-	-
Potassium	ug/L	-	9300	-	-	-	-	40000	-	-	-	-
Potassium (dissolved)	ug/L	-	9600	11000 J	-	-	-	38000	-	-	-	-
Selenium	ug/L	-	0.89 U	-	-	-	-	10	-	-	-	-
Selenium (dissolved)	ug/L	-	0.89 U	5.1	-	-	-	0.89 U	-	-	-	-
Silver	ug/L	-	0.053 U	-	-	-	-	4.1	-	-	-	-
Silver (dissolved)	ug/L	-	0.053 U	5.0 U	-	-	-	0.053 U	-	-	-	-
Sodium	ug/L	-	85000	-	-	-	-	84000	-	-	-	-
Sodium (dissolved)	ug/L	-	90000	220000	-	-	-	86000	-	-	-	-
Thallium	ug/L	-	0.20 U	-	-	-	-	**1.6[b]**	-	-	-	-
Thallium (dissolved)	ug/L	-	0.20 U	10 U	-	-	-	0.20 U	-	-	-	-

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OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH10-13	BH10-18	BH11-13	BH12-13	BH13-13	BH14-13	BH14-18	BH15-13	BH16-13	BH16-13	BH16-13
Sample ID:		GW-38443-061113-SM-002	WG-38443-051118-GL-011	GW-38443-061113-GL-003	GW-38443-061113-SM-006	GW-38443-061213-SM-007	GW-38443-061113-GL-005	GW-38443-091718-JC-171	GW-38443-061213-GL-013	GW-38443-061213-GL-008	GW-38443-061213-GL-009	GW-38443-071013-JT-108
Sample Date:		6/11/2013	5/11/2018	6/11/2013	6/11/2013	6/12/2013	6/11/2013	9/17/2018	6/12/2013	6/12/2013	6/12/2013	7/10/2013
Sample Depth:		21.5-25.5 ft BGS	38-42 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	35-40 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS	21.5-25.5 ft BGS Duplicate	29.5-33.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	-	0.82 U	-	-	-	-	110[b]	-	-	-	-
Vanadium (dissolved)	ug/L	-	0.82 U	7.0 U	-	-	-	0.82 U	-	-	-	-
Zinc	ug/L	-	18 J	-	-	-	-	2100[b]	-	-	-	-
Zinc (dissolved)	ug/L	-	15 U	50 U	-	-	-	100	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	0.062 U	-	-	-	-	0.053 U	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	0.063 U	-	-	-	-	0.054 U	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	0.082 U	-	-	-	-	0.070 U	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	0.084 U	-	-	-	-	0.072 U	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	0.056 U	-	-	-	-	0.048 U	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	0.044 U	-	-	-	-	0.038 U	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	0.051 U	-	-	-	-	0.044 U	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	180000	-	-	-	-	93000	-	-	-	-
Cyanide (total)	ug/L	-	10 U	-	-	-	-	6 U	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH10-13**	**BH10-18**	**BH11-13**	**BH12-13**	**BH13-13**	**BH14-13**	**BH14-18**	**BH15-13**	**BH16-13**	**BH16-13**	**BH16-13**
Sample ID:		**GW-38443-061113-SM-002**	**WG-38443-051118-GL-011**	**GW-38443-061113-GL-003**	**GW-38443-061113-SM-006**	**GW-38443-061213-SM-007**	**GW-38443-061113-GL-005**	**GW-38443-091718-JC-171**	**GW-38443-061213-GL-013**	**GW-38443-061213-GL-008**	**GW-38443-061213-GL-009**	**GW-38443-071013-JT-108**
Sample Date:		**6/11/2013**	**5/11/2018**	**6/11/2013**	**6/11/2013**	**6/12/2013**	**6/11/2013**	**9/17/2018**	**6/12/2013**	**6/12/2013**	**6/12/2013**	**7/10/2013**
Sample Depth:		**21.5-25.5 ft BGS**	**38-42 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**35-40 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**29.5-33.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	14 U	-	-	-	-	14 U	-	-	-	-
Nitrite (as N)	ug/L	-	14 U	-	-	-	-	14 U	-	-	-	-
Sulfate	ug/L	-	68000	-	-	-	-	25000	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

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Analytical Results for Groundwater Samples
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Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH17-13	BH17-13	BH18-13	BH18-13	BH18-13	BH19-13	BH20-13	BH20-13	BH20-18	BH20-18	BH21-13
Sample ID:		GW-38443-061213-SM-010	GW-38443-071013-JT-107	GW-38443-061213-SM-012	GW-38443-070913-JT-105	GW-38443-070913-JT-106	GW-38443-061313-SM-015	WG-38443-061713-SM-023	WG-38443-061713-SM-024	WG-38443-051518-GL-013	WG-38443-051518-GL-014	WG-38443-061713-SM-025
Sample Date:		6/12/2013	7/10/2013	6/12/2013	7/9/2013	7/9/2013	6/13/2013	6/17/2013	6/17/2013	5/15/2018	5/15/2018	6/17/2013
Sample Depth:		21.5-25.5 ft BGS	29.5-33.5 ft BGS	21.5-25.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	19.25-23.25 ft BGS	20.5-24.5 ft BGS	20.5-24.5 ft BGS	27.3-31.3 ft BGS	27.3-31.3 ft BGS	19.25-23.25 ft BGS
						Duplicate			Duplicate		Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	2.9 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	2.9 U	0.22 J	0.25 J	1.0 U	0.23 J	1.0 U	1.0 U	0.25 U	0.25 U	0.45 J
1,1-Dichloroethene	ug/L	1.0 U	1.1 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	5.7 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0086 U	0.0086 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0087 U	0.0087 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 J	0.40 J	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 J	0.41 J	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	29 U	10 U	10 U	2.7 J	10 U	10 U	10 U	1.0 U	1.0 U	10 U
2-Hexanone	ug/L	10 U	29 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	1.2 U	1.2 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	29 UJ	10 U	10 UJ	10 UJ	10 U	10 U	10 U	0.71 U	0.71 U	10 U
Acetone	ug/L	10 U	29 U	10 U	10 U	10 U	10 U	10 U	10 U	1.8 U	1.8 U	10 U
Benzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	0.28 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U
Bromoform	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	2.9 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.42 U	0.42 U	1.0 UJ
Carbon disulfide	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	2.9 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 U	0.35 U	1.0 U
Chlorobenzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	18[b]	17[b]	1.0 U
Chloroethane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	27[b]	3.1	4.4[b]	4.3[b]	3.5	1.0	1.0	0.99 J	0.93 J	0.52 J
cis-1,3-Dichloropropene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U
Cyclohexane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 U	0.44 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U
Ethylbenzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	0.24 U	0.24 U	-
Methyl acetate	ug/L	10 U	29 UJ	10 U	10 U	10 U	0.38 J	10 U	10 U	1.4 U	1.4 U	10 U
Methyl cyclohexane	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U
Methylene chloride	ug/L	1.0 U	2.9 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	0.28 U	0.28 U	-
Styrene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U
Toluene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	0.23 U	0.23 U	0.19 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.9 J	1.0 U	0.26 J	0.20 J	1.0 U	1.0 U	1.0 U	0.29 U	0.29 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U
Trichloroethene	ug/L	0.56 J[b]	94[ab]	3.4[b]	8.8[ab]	8.2[ab]	1.8[b]	1.8[b]	1.8[b]	0.33 U	0.33 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	2.9 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	0.50 U	0.50 U	1.0 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	2.9 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U
Vinyl chloride	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U	1.0 U
Xylenes (total)	ug/L	2.0 U	5.7 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.24 U	0.24 U	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	0.56 U	0.52 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH17-13	BH17-13	BH18-13	BH18-13	BH18-13	BH19-13	BH20-13	BH20-13	BH20-18	BH20-18	BH21-13
Sample ID:		GW-38443-061213-SM-010	GW-38443-071013-JT-107	GW-38443-061213-SM-012	GW-38443-070913-JT-105	GW-38443-070913-JT-106	GW-38443-061313-SM-015	WG-38443-061713-SM-023	WG-38443-061713-SM-024	WG-38443-051518-GL-013	WG-38443-051518-GL-014	WG-38443-061713-SM-025
Sample Date:		6/12/2013	7/10/2013	6/12/2013	7/9/2013	7/9/2013	6/13/2013	6/17/2013	6/17/2013	5/15/2018	5/15/2018	6/17/2013
Sample Depth:		21.5-25.5 ft BGS	29.5-33.5 ft BGS	21.5-25.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	19.25-23.25 ft BGS	20.5-24.5 ft BGS	20.5-24.5 ft BGS	27.3-31.3 ft BGS	27.3-31.3 ft BGS	19.25-23.25 ft BGS
						Duplicate			Duplicate		Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	2.0 U	1.9 U	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	1.8 U	1.7 U	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	0.27 U	0.25 U	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	0.53 U	0.49 U	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	6.3 U	5.9 U	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	2.1 U	2.0 U	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	2.2 U	2.0 U	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	0.49 U	0.46 U	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	0.28 U	0.26 U	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	0.11 U	0.11 U	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	0.21 U	0.20 U	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	0.52 U	0.49 U	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	0.58 U	0.54 U	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	0.19 U	0.18 U	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	1.2 U	1.1 U	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	0.58 U	0.54 U	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	2.9 U	2.7 U	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	0.51 U	0.48 U	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	0.30 U	0.28 U	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	0.32 U	0.30 U	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	0.56 U	0.52 U	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	0.94 U	0.87 U	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	2.2 U	2.1 U	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	0.18 U	0.16 U	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	0.13 U	0.12 U	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	0.37 U	0.35 U	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	0.14 U	0.13 U	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	0.35 U	0.32 U	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	0.40 U	0.37 U	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	0.17 U	0.16 U	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	0.18 U	0.16 U	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	0.16 U	0.15 U	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	0.18 U	0.17 U	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	0.14 U	0.13 U	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	0.50 U	0.47 U	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	0.46 U	0.43 U	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	0.41 U	0.38 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	2.3 U	2.1 U	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	0.68 U	0.63 U	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	0.20 U	0.19 U	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	0.50 U	0.47 U	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	0.19 U	0.18 U	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	0.046 U	0.042 U	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	0.57 U	0.53 U	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	3.9 U	3.6 U	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	0.53 U	0.49 U	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	1.8 U	1.7 U	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	0.84 U	0.78 U	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	0.16 U	0.15 U	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	0.17 U	0.16 U	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	0.16 U	0.15 U	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	0.55 U	0.52 U	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	1.8 U	1.7 U	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	0.40 U	0.38 U	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	0.14 U	0.13 U	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	0.33 U	0.31 U	-

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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH17-13	BH17-13	BH18-13	BH18-13	BH18-13	BH19-13	BH20-13	BH20-13	BH20-18	BH20-18	BH21-13
Sample ID:		GW-38443-061213-SM-010	GW-38443-071013-JT-107	GW-38443-061213-SM-012	GW-38443-070913-JT-105	GW-38443-070913-JT-106	GW-38443-061313-SM-015	WG-38443-061713-SM-023	WG-38443-061713-SM-024	WG-38443-051518-GL-013	WG-38443-051518-GL-014	WG-38443-061713-SM-025
Sample Date:		6/12/2013	7/10/2013	6/12/2013	7/9/2013	7/9/2013	6/13/2013	6/17/2013	6/17/2013	5/15/2018	5/15/2018	6/17/2013
Sample Depth:		21.5-25.5 ft BGS	29.5-33.5 ft BGS	21.5-25.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	19.25-23.25 ft BGS	20.5-24.5 ft BGS	20.5-24.5 ft BGS	27.3-31.3 ft BGS	27.3-31.3 ft BGS	19.25-23.25 ft BGS
						Duplicate			Duplicate		Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Naphthalene	ug/L	1.0 U	2.9 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.11 U	0.10 U	1.0 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	0.52 U	0.49 U	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	0.26 U	0.24 U	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	0.45 U	0.42 U	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	3.2 U	3.0 U	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	0.17 U	0.16 U	-
Phenol	ug/L	-	-	-	-	-	-	-	-	0.13 U	0.12 U	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	0.18 U	0.17 U	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	34 U	34 U	-
Aluminum (dissolved)	ug/L	-	-	200 U	200 U	200 U	-	-	-	34 U	34 U	-
Antimony	ug/L	-	-	-	-	-	-	-	-	0.57 U	0.57 U	-
Antimony (dissolved)	ug/L	-	-	10 U	10 U	10 U	-	-	-	0.57 U	0.57 U	-
Arsenic	ug/L	-	-	-	-	-	-	-	-	230[ab]	230[ab]	-
Arsenic (dissolved)	ug/L	-	-	10 U	10 U	10 U	-	-	-	230[ab]	230[ab]	-
Barium	ug/L	-	-	-	-	-	-	-	-	260	260	-
Barium (dissolved)	ug/L	-	-	140 J	160 J	150 J	-	-	-	250	260	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	0.31 J	0.31 U	-
Beryllium (dissolved)	ug/L	-	-	5.0 U	5.0 U	5.0 U	-	-	-	0.31 U	0.31 U	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	0.21 U	0.21 U	-
Cadmium (dissolved)	ug/L	-	-	2.0 U	2.0 U	2.0 U	-	-	-	0.21 U	0.21 U	-
Calcium	ug/L	-	-	-	-	-	-	-	-	160000	160000	-
Calcium (dissolved)	ug/L	-	-	150000	150000	130000	-	-	-	160000	160000	-
Chromium	ug/L	-	-	-	-	-	-	-	-	0.98 U	0.98 U	-
Chromium (dissolved)	ug/L	-	-	5.0 U	5.0 U	5.0 U	-	-	-	0.98 U	0.98 U	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	1.7[b]	1.6[b]	-
Cobalt (dissolved)	ug/L	-	-	3.2 J[b]	1.8 J[b]	2.0 J[b]	-	-	-	1.5[b]	1.5[b]	-
Copper	ug/L	-	-	-	-	-	-	-	-	1.7 U	1.7 UJ	-
Copper (dissolved)	ug/L	-	-	25 U	25 U	25 U	-	-	-	1.7 U	5.9 J	-
Iron	ug/L	-	-	-	-	-	-	-	-	13000[b]	13000[b]	-
Iron (dissolved)	ug/L	-	-	2500[b]	740	760	-	-	-	13000[b]	13000[b]	-
Lead	ug/L	-	-	-	-	-	-	-	-	0.45 U	0.45 U	-
Lead (dissolved)	ug/L	-	-	3.0 U	1.9 J	3.0 U	-	-	-	0.45 U	0.45 U	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	89000	89000	-
Magnesium (dissolved)	ug/L	-	-	58000	58000	53000	-	-	-	85000	89000	-
Manganese	ug/L	-	-	-	-	-	-	-	-	70[b]	70[b]	-
Manganese (dissolved)	ug/L	-	-	430[b]	260[b]	250[b]	-	-	-	67[b]	68[b]	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	0.13 U	0.13 U	-
Mercury (dissolved)	ug/L	-	-	0.20 U	0.20 U	0.20 U	-	-	-	0.13 U	0.13 U	-
Nickel	ug/L	-	-	-	-	-	-	-	-	2.9	3.0	-
Nickel (dissolved)	ug/L	-	-	11 J	7.0 J	7.9 J	-	-	-	2.7	3.2	-
Potassium	ug/L	-	-	-	-	-	-	-	-	32000	32000	-
Potassium (dissolved)	ug/L	-	-	11000	10000	9400	-	-	-	31000	32000	-
Selenium	ug/L	-	-	-	-	-	-	-	-	1.1 J	0.89 U	-
Selenium (dissolved)	ug/L	-	-	5.0 U	5.0 U	5.0 U	-	-	-	0.89 U	0.89 U	-
Silver	ug/L	-	-	-	-	-	-	-	-	0.053 U	0.053 U	-
Silver (dissolved)	ug/L	-	-	5.0 U	5.0 U	5.0 U	-	-	-	0.053 U	0.053 U	-
Sodium	ug/L	-	-	-	-	-	-	-	-	50000	49000	-
Sodium (dissolved)	ug/L	-	-	86000	100000	93000	-	-	-	48000	49000	-
Thallium	ug/L	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-
Thallium (dissolved)	ug/L	-	-	10 U	10 U	10 U	-	-	-	0.20 U	0.20 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH17-13	BH17-13	BH18-13	BH18-13	BH18-13	BH19-13	BH20-13	BH20-13	BH20-18	BH20-18	BH21-13
Sample ID:		GW-38443-061213-SM-010	GW-38443-071013-JT-107	GW-38443-061213-SM-012	GW-38443-070913-JT-105	GW-38443-070913-JT-106	GW-38443-061313-SM-015	WG-38443-061713-SM-023	WG-38443-061713-SM-024	WG-38443-051518-GL-013	WG-38443-051518-GL-014	WG-38443-061713-SM-025
Sample Date:		6/12/2013	7/10/2013	6/12/2013	7/9/2013	7/9/2013	6/13/2013	6/17/2013	6/17/2013	5/15/2018	5/15/2018	6/17/2013
Sample Depth:		21.5-25.5 ft BGS	29.5-33.5 ft BGS	21.5-25.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	19.25-23.25 ft BGS	20.5-24.5 ft BGS	20.5-24.5 ft BGS	27.3-31.3 ft BGS	27.3-31.3 ft BGS	19.25-23.25 ft BGS
						Duplicate			Duplicate		Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	-	-	-	-	-	-	-	-	0.82 U	0.82 U	-
Vanadium (dissolved)	ug/L	-	-	7.0 U	7.0 U	7.0 U	-	-	-	0.82 U	0.82 U	-
Zinc	ug/L	-	-	-	-	-	-	-	-	15 U	15 U	-
Zinc (dissolved)	ug/L	-	-	50 U	50 U	50 U	-	-	-	15 U	15 U	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	0.057 U	0.053 U	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	0.058 U	0.054 U	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	0.076 U	0.070 U	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	0.078 U	0.072 U	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	0.051 U	0.048 U	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	0.041 U	0.038 U	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	0.047 U	0.044 U	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	0.0056 U	0.0059 U	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	0.0045 U	0.0048 U	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	0.0051 U	0.0053 U	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	0.0025 U	0.0027 U	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	0.0021 U	0.0022 U	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	0.0034 U	0.0036 U	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	0.0048 U	0.0051 U	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	0.0045 U	0.0048 U	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	0.0024 U	0.0026 U	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	0.0039 U	0.0041 U	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	0.0024 U	0.0026 U	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	0.0039 U	0.0041 U	-
Endrin	ug/L	-	-	-	-	-	-	-	-	0.0026 U	0.0028 U	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	0.0048 U	0.0051 U	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	0.0042 U	0.0044 U	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	0.0026 U	0.0028 U	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	0.0053 U	0.0056 U	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	0.0035 U	0.0037 U	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	0.0027 U	0.0029 U	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	0.0049 UJ	0.0052 UJ	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	0.061 U	0.065 U	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	0.57 U	0.57 U	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	0.43 U	0.43 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	2.2 U	2.2 U	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	43000	43000	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	6 U	6 U	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH17-13	BH17-13	BH18-13	BH18-13	BH18-13	BH19-13	BH20-13	BH20-13	BH20-18	BH20-18	BH21-13
Sample ID:		GW-38443-061213-SM-010	GW-38443-071013-JT-107	GW-38443-061213-SM-012	GW-38443-070913-JT-105	GW-38443-070913-JT-106	GW-38443-061313-SM-015	WG-38443-061713-SM-023	WG-38443-061713-SM-024	WG-38443-051518-GL-013	WG-38443-051518-GL-014	WG-38443-061713-SM-025
Sample Date:		6/12/2013	7/10/2013	6/12/2013	7/9/2013	7/9/2013	6/13/2013	6/17/2013	6/17/2013	5/15/2018	5/15/2018	6/17/2013
Sample Depth:		21.5-25.5 ft BGS	29.5-33.5 ft BGS	21.5-25.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS Duplicate	19.25-23.25 ft BGS	20.5-24.5 ft BGS	20.5-24.5 ft BGS Duplicate	27.3-31.3 ft BGS	27.3-31.3 ft BGS Duplicate	19.25-23.25 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	14 U	14 U	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	14 U	14 U	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	49000	49000	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH22-13	BH23-13	BH24-13	BH24-13	BH25-13	BH30-13	BH31-13	BH32-13	BH32-13	BH33-13	BH34-13
Sample ID:		WG-38443-061713-SM-026	WG-38443-061813-SM-031	WG-38443-061813-SM-027	WG-38443-061813-SM-028	WG-38443-061813-SM-029	GW-38443-070313-SK-097	GW-38443-070113-SK-086	GW-38443-070213-SK-093	GW-38443-070213-SK-094	GW-038443-062713-SM-078	GW-038443-062713-SM-081
Sample Date:		6/17/2013	6/18/2013	6/18/2013	6/18/2013	6/18/2013	7/3/2013	7/1/2013	7/2/2013	7/2/2013	6/27/2013	6/27/2013
Sample Depth:		21.5-25.5 ft BGS	20.5-24.5 ft BGS	20.6-24.6 ft BGS	20.6-24.6 ft BGS Duplicate	21.75-25.75 ft BGS	32.5-36.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS Duplicate	26-30 ft BGS	27.5-31.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.67 J	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 UJ	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.9 UJ	4.0 U	2.0 U	2.0 U	10 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	**2.0 J[b]**	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	14 U	20 U	10 U	10 U	50 U	10 U
2-Hexanone	ug/L	10 UJ	10 U	10 UJ	10 UJ	10 UJ	14 U	20 U	10 U	10 U	50 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	14 U	20 U	10 U	10 U	50 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	14 U	20 U	10 U	10 U	7.1 J	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 J	0.31 J	1.0 U	1.0 U	**80[ab]**	**0.49 J[b]**
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	0.62 J
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	9.4	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.1	0.37 J	0.33 J	0.46 J	1.0 U	1.6	**49[b]**	0.88 J	0.94 J	**3.8 J[b]**	1.7
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	1.0 J	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	**100[b]**	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	6.8	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	14 U	20 U	10 U	10 U	50 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	0.99 J	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	0.69 J	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 J	1.4 U	2.0 U	0.17 J	0.13 J	32	0.34 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.1 J	1.0 U	1.0 U	5.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 UJ	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Trichloroethene	ug/L	**0.72 J[b]**	**0.79 J[b]**	**1.7[b]**	**2.0[b]**	**1.3[b]**	**39[ab]**	**57[ab]**	1.0 U	1.0 U	5.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	**9.4[ab]**	1.0 U	1.0 U	**1.1 J[b]**	**11[ab]**
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.9 U	4.0 U	2.0 U	2.0 U	**190[b]**	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH22-13	BH23-13	BH24-13	BH24-13	BH25-13	BH30-13	BH31-13	BH32-13	BH32-13	BH33-13	BH34-13
Sample ID:		WG-38443-061713-SM-026	WG-38443-061813-SM-031	WG-38443-061813-SM-027	WG-38443-061813-SM-028	WG-38443-061813-SM-029	GW-38443-070313-SK-097	GW-38443-070113-SK-086	GW-38443-070213-SK-093	GW-38443-070213-SK-094	GW-038443-062713-SM-078	GW-038443-062713-SM-081
Sample Date:		6/17/2013	6/18/2013	6/18/2013	6/18/2013	6/18/2013	7/3/2013	7/1/2013	7/2/2013	7/2/2013	6/27/2013	6/27/2013
Sample Depth:		21.5-25.5 ft BGS	20.5-24.5 ft BGS	20.6-24.6 ft BGS	20.6-24.6 ft BGS	21.75-25.75 ft BGS	32.5-36.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	26-30 ft BGS	27.5-31.5 ft BGS
					Duplicate					Duplicate		
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH22-13**	**BH23-13**	**BH24-13**	**BH24-13**	**BH25-13**	**BH30-13**	**BH31-13**	**BH32-13**	**BH32-13**	**BH33-13**	**BH34-13**
Sample ID:		**WG-38443-061713-SM-026**	**WG-38443-061813-SM-031**	**WG-38443-061813-SM-027**	**WG-38443-061813-SM-028**	**WG-38443-061813-SM-029**	**GW-38443-070313-SK-097**	**GW-38443-070113-SK-086**	**GW-38443-070213-SK-093**	**GW-38443-070213-SK-094**	**GW-038443-062713-SM-078**	**GW-038443-062713-SM-081**
Sample Date:		**6/17/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**7/3/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**
Sample Depth:		**21.5-25.5 ft BGS**	**20.5-24.5 ft BGS**	**20.6-24.6 ft BGS**	**20.6-24.6 ft BGS Duplicate**	**21.75-25.75 ft BGS**	**32.5-36.5 ft BGS**	**29.5-33.5 ft BGS**	**29.5-33.5 ft BGS**	**29.5-33.5 ft BGS Duplicate**	**26-30 ft BGS**	**27.5-31.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Naphthalene	ug/L	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.4 U	2.0 U	1.0 U	1.0 U	**5.1[b]**	1.0 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	200 U	-	-	-	200 U	200 U	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	10 U	-	-	-	10 U	10 U	-	-	-	-	-
Arsenic	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	10 U	-	-	-	10 U	10 U	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	110 J	-	-	-	220	270	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	5.0 U	-	-	-	5.0 U	5.0 U	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	2.0 U	-	-	-	2.0 U	2.0 U	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	140000	-	-	-	150000	160000	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	5.0 U	-	-	-	5.0 U	5.0 U	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	7.0 U	-	-	-	7.0 U	7.0 U	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	25 U	-	-	-	25 U	25 U	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	150	-	-	-	610	1200	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	3.0 U	-	-	-	3.0 U	3.0 U	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	53000	-	-	-	46000	43000	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	**440[b]**	-	-	-	**280[b]**	**150[b]**	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.20 U	-	-	-	0.20 U	0.20 U	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	7.4 J	-	-	-	5.8 J	40 U	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	9400	-	-	-	8900	7200	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	5.0 U	-	-	-	5.0 U	**11[b]**	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	5.0 U	-	-	-	5.0 U	5.0 U	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	91000	-	-	-	48000	35000	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	**5.5 J[ab]**	-	-	-	**5.1 J[ab]**	10 U	-	-	-	-	-

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Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH22-13	BH23-13	BH24-13	BH24-13	BH25-13	BH30-13	BH31-13	BH32-13	BH32-13	BH33-13	BH34-13
Sample ID:		WG-38443-061713-SM-026	WG-38443-061813-SM-031	WG-38443-061813-SM-027	WG-38443-061813-SM-028	WG-38443-061813-SM-029	GW-38443-070313-SK-097	GW-38443-070113-SK-086	GW-38443-070213-SK-093	GW-38443-070213-SK-094	GW-038443-062713-SM-078	GW-038443-062713-SM-081
Sample Date:		6/17/2013	6/18/2013	6/18/2013	6/18/2013	6/18/2013	7/3/2013	7/1/2013	7/2/2013	7/2/2013	6/27/2013	6/27/2013
Sample Depth:		21.5-25.5 ft BGS	20.5-24.5 ft BGS	20.6-24.6 ft BGS	20.6-24.6 ft BGS	21.75-25.75 ft BGS	32.5-36.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	26-30 ft BGS	27.5-31.5 ft BGS
					Duplicate					Duplicate		
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	7.0 U	-	-	-	7.0 U	7.0 U	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	50 U	-	-	-	50 U	50 U	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	0.48 U	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH22-13	BH23-13	BH24-13	BH24-13	BH25-13	BH30-13	BH31-13	BH32-13	BH32-13	BH33-13	BH34-13
Sample ID:		WG-38443-061713-SM-026	WG-38443-061813-SM-031	WG-38443-061813-SM-027	WG-38443-061813-SM-028	WG-38443-061813-SM-029	GW-38443-070313-SK-097	GW-38443-070113-SK-086	GW-38443-070213-SK-093	GW-38443-070213-SK-094	GW-038443-062713-SM-078	GW-038443-062713-SM-081
Sample Date:		6/17/2013	6/18/2013	6/18/2013	6/18/2013	6/18/2013	7/3/2013	7/1/2013	7/2/2013	7/2/2013	6/27/2013	6/27/2013
Sample Depth:		21.5-25.5 ft BGS	20.5-24.5 ft BGS	20.6-24.6 ft BGS	20.6-24.6 ft BGS	21.75-25.75 ft BGS	32.5-36.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	29.5-33.5 ft BGS	26-30 ft BGS	27.5-31.5 ft BGS
					Duplicate					Duplicate		
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH35-13	BH36-13	BH37-13	BH38-13	BH39-13	BH40-13	BH42-13	BH43-13	BH44-13	BH46-13	BH46B-13
Sample ID:		GW-38443-062813-SM-083	GW-38443-070213-SK-087	GW-38443-070313-SK-095	GW-38443-062813-SM-082	GW-38443-070113-SK-085	GW-38443-070213-SK-089	GW-38443-070813-JT-098	GW-38443-070213-SK-090	GW-38443-070213-SK-091	GW-38443-070213-SK-092	GW-38443-070313-SK-096
Sample Date:		6/28/2013	7/2/2013	7/3/2013	6/28/2013	7/1/2013	7/2/2013	7/8/2013	7/2/2013	7/2/2013	7/2/2013	7/3/2013
Sample Depth:		27.5-31.5 ft BGS	33-37 ft BGS	28-32 ft BGS	28.5-32.5 ft BGS	31-35 ft BGS	31.5-35.5 ft BGS	33-37 ft BGS	28.5-32.5 ft BGS	38.5-42.5 ft BGS	31-35 ft BGS	29-33 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	11 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	11 U	1.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	0.44 J	0.99 J	0.37 J	1.0 U	1.0 U	4.0[b]	0.53 J	11 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	22 U	2.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	0.21 J	0.45 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 J	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	110 U	10 U
2-Hexanone	ug/L	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 UJ	10 U	10 U	110 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	110 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	110 U	10 U
Benzene	ug/L	1.0 U	1.0 U	0.63 J[b]	0.48 J[b]	1.0 U	1.0 U	1.0 U	0.15 J	1.0 U	100[ab]	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	11 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	11 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	0.61 J	0.59 J	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	6.3 J	0.41 J
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.6	4.7[b]	2.6	6.6[b]	2.0	1.0 U	27[b]	1.7	2.8 J	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	0.12 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.9 J[b]	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 J	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	110 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Methylene chloride	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	11	1.0 U	1.0 U	0.18 J	1.0 U	0.13 J	270[b]	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U	11 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0[b]	0.56 J[b]	1.0 U	6.1[ab]	1.9[b]	11 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	11 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	11 U	1.0 U
Vinyl chloride	ug/L	2.2[ab]	2.3[ab]	7.7[ab]	1.9[b]	3.6[ab]	0.25 J[b]	3.5[ab]	6.2[ab]	0.28 J[b]	11 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.2	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	36[b]	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH35-13	BH36-13	BH37-13	BH38-13	BH39-13	BH40-13	BH42-13	BH43-13	BH44-13	BH46-13	BH46B-13
Sample ID:		GW-38443-062813-SM-083	GW-38443-070213-SK-087	GW-38443-070313-SK-095	GW-38443-062813-SM-082	GW-38443-070113-SK-085	GW-38443-070213-SK-089	GW-38443-070813-JT-098	GW-38443-070213-SK-090	GW-38443-070213-SK-091	GW-38443-070213-SK-092	GW-38443-070313-SK-096
Sample Date:		6/28/2013	7/2/2013	7/3/2013	6/28/2013	7/1/2013	7/2/2013	7/8/2013	7/2/2013	7/2/2013	7/2/2013	7/3/2013
Sample Depth:		27.5-31.5 ft BGS	33-37 ft BGS	28-32 ft BGS	28.5-32.5 ft BGS	31-35 ft BGS	31.5-35.5 ft BGS	33-37 ft BGS	28.5-32.5 ft BGS	38.5-42.5 ft BGS	31-35 ft BGS	29-33 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH35-13	BH36-13	BH37-13	BH38-13	BH39-13	BH40-13	BH42-13	BH43-13	BH44-13	BH46-13	BH46B-13
Sample ID:		GW-38443-062813-SM-083	GW-38443-070213-SK-087	GW-38443-070313-SK-095	GW-38443-062813-SM-082	GW-38443-070113-SK-085	GW-38443-070213-SK-089	GW-38443-070813-JT-098	GW-38443-070213-SK-090	GW-38443-070213-SK-091	GW-38443-070213-SK-092	GW-38443-070313-SK-096
Sample Date:		6/28/2013	7/2/2013	7/3/2013	6/28/2013	7/1/2013	7/2/2013	7/8/2013	7/2/2013	7/2/2013	7/2/2013	7/3/2013
Sample Depth:		27.5-31.5 ft BGS	33-37 ft BGS	28-32 ft BGS	28.5-32.5 ft BGS	31-35 ft BGS	31.5-35.5 ft BGS	33-37 ft BGS	28.5-32.5 ft BGS	38.5-42.5 ft BGS	31-35 ft BGS	29-33 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Naphthalene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4[b]	1.0 U	1.0 U	11 U	1.0 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	200 U	-	-	-	200 U	-	-	-	200 U	200 U
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	10 U	-	-	-	10 U	-	-	-	10 U	10 U
Arsenic	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	-	10 U	-	-	-	10 U	-	-	-	5.1 J[b]	10 U
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	930[b]	-	-	-	630[b]	-	-	-	830[b]	570[b]
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	5.0 U	-	-	-	5.0 U	-	-	-	5.0 U	5.0 U
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	2.0 U	-	-	-	2.0 U	-	-	-	2.0 U	2.0 U
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	110000	-	-	-	130000	-	-	-	160000	150000
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	5.0 U	-	-	-	5.0 U	-	-	-	5.0 U	5.0 U
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	7.0 U	-	-	-	2.7 J[b]	-	-	-	7.0 U	1.8 J[b]
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	25 U	-	-	-	25 U	-	-	-	25 U	8.3 J
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	2100[b]	-	-	-	2600[b]	-	-	-	24000[b]	2400[b]
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	-	3.0 U	-	-	-	3.0 U	-	-	-	3.0 U	3.0 U
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	51000	-	-	-	70000	-	-	-	48000	49000
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	1200[b]	-	-	-	720[b]	-	-	-	280[b]	1000[b]
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	0.20 U	-	-	-	0.20 U	-	-	-	0.20 U	0.20 U
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	14 J	-	-	-	7.3 J	-	-	-	40 U	40 U
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	16000	-	-	-	20000 J	-	-	-	17000 J	11000
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	5.0 U	-	-	-	5.0 U	-	-	-	5.0 U	8.0
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	5.0 U	-	-	-	5.0 U	-	-	-	5.0 U	5.0 U
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	65000	-	-	-	73000	-	-	-	100000	100000
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	6.7 J[ab]	-	-	-	5.0 J[ab]	-	-	-	4.9 J[ab]	10 U

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH35-13	BH36-13	BH37-13	BH38-13	BH39-13	BH40-13	BH42-13	BH43-13	BH44-13	BH46-13	BH46B-13
Sample ID:		GW-38443-062813-SM-083	GW-38443-070213-SK-087	GW-38443-070313-SK-095	GW-38443-062813-SM-082	GW-38443-070113-SK-085	GW-38443-070213-SK-089	GW-38443-070813-JT-098	GW-38443-070213-SK-090	GW-38443-070213-SK-091	GW-38443-070213-SK-092	GW-38443-070313-SK-096
Sample Date:		6/28/2013	7/2/2013	7/3/2013	6/28/2013	7/1/2013	7/2/2013	7/8/2013	7/2/2013	7/2/2013	7/2/2013	7/3/2013
Sample Depth:		27.5-31.5 ft BGS	33-37 ft BGS	28-32 ft BGS	28.5-32.5 ft BGS	31-35 ft BGS	31.5-35.5 ft BGS	33-37 ft BGS	28.5-32.5 ft BGS	38.5-42.5 ft BGS	31-35 ft BGS	29-33 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	7.0 U	-	-	-	7.0 U	-	-	-	7.0 U	7.0 U
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	51 U	-	-	-	50 U	-	-	-	50 U	50 U
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	0.48 U	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	0.48 U	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	0.48 U	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	0.48 U	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	0.48 U	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	0.48 U	-	-	-	0.48 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	0.48 U	-	-	-	0.48 U	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH35-13	BH36-13	BH37-13	BH38-13	BH39-13	BH40-13	BH42-13	BH43-13	BH44-13	BH46-13	BH46B-13
Sample ID:		GW-38443-062813-SM-083	GW-38443-070213-SK-087	GW-38443-070313-SK-095	GW-38443-062813-SM-082	GW-38443-070113-SK-085	GW-38443-070213-SK-089	GW-38443-070813-JT-098	GW-38443-070213-SK-090	GW-38443-070213-SK-091	GW-38443-070213-SK-092	GW-38443-070313-SK-096
Sample Date:		6/28/2013	7/2/2013	7/3/2013	6/28/2013	7/1/2013	7/2/2013	7/8/2013	7/2/2013	7/2/2013	7/2/2013	7/3/2013
Sample Depth:		27.5-31.5 ft BGS	33-37 ft BGS	28-32 ft BGS	28.5-32.5 ft BGS	31-35 ft BGS	31.5-35.5 ft BGS	33-37 ft BGS	28.5-32.5 ft BGS	38.5-42.5 ft BGS	31-35 ft BGS	29-33 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH48B-13	BH49-13	BH51-13	BH52-13	BH53-13	BH54-13	BH55-13	BH56-13	BH57-13	BH57-13	BH58-13
Sample ID:		GW-38443-070813-JT-099	WG-38443-061813-SM-032	WG-38443-062113-SM-058	WG-38443-061913-SM-041	WG-38443-061813-SM-034	WG-38443-061813-SM-033	WG-38443-061813-SM-035	WG-38443-061913-SM-036	WG-38443-061913-SM-037	WG-38443-061913-SM-038	WG-38443-061913-SM-044
Sample Date:		7/8/2013	6/18/2013	6/21/2013	6/19/2013	6/18/2013	6/18/2013	6/18/2013	6/19/2013	6/19/2013	6/19/2013	6/19/2013
Sample Depth:		30-34 ft BGS	21.5-25.5 ft BGS	22.5-26.5 ft BGS	24.8-28.8 ft BGS	22-26 ft BGS	21.5-25.5 ft BGS	25.5-29.5 ft BGS	24-28 ft BGS	24-28 ft BGS	24-28 ft BGS Duplicate	24.5-28.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.18 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	0.92 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 UJ	10 U	0.34 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	1.3 J	10 U	10 U	10 U	1.1 J	10 U	2.0 J	10 U
Benzene	ug/L	**0.61 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	0.33 J	1.0 U	**5.6[b]**	0.52 J	0.17 J	2.5	0.96 J	**4.1[b]**	**4.1[b]**	0.29 J
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	0.84 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.68 J
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.26 J	1.0 U	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	**0.40 J[b]**	**2.0[b]**	**0.58 J[b]**	**2.1[b]**	**0.71 J[b]**	**0.95 J[b]**	**0.95 J[b]**	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	**2.9[ab]**	1.0 U	1.0 U	**0.73 J[b]**	1.0 U	1.0 U	**0.46 J[b]**	1.0 U	**0.48 J[b]**	**0.40 J[b]**	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	6.3	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.7
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH48B-13	BH49-13	BH51-13	BH52-13	BH53-13	BH54-13	BH55-13	BH56-13	BH57-13	BH57-13	BH58-13
Sample ID:		GW-38443-070813-JT-099	WG-38443-061813-SM-032	WG-38443-062113-SM-058	WG-38443-061913-SM-041	WG-38443-061813-SM-034	WG-38443-061813-SM-033	WG-38443-061813-SM-035	WG-38443-061913-SM-036	WG-38443-061913-SM-037	WG-38443-061913-SM-038	WG-38443-061913-SM-044
Sample Date:		7/8/2013	6/18/2013	6/21/2013	6/19/2013	6/18/2013	6/18/2013	6/18/2013	6/19/2013	6/19/2013	6/19/2013	6/19/2013
Sample Depth:		30-34 ft BGS	21.5-25.5 ft BGS	22.5-26.5 ft BGS	24.8-28.8 ft BGS	22-26 ft BGS	21.5-25.5 ft BGS	25.5-29.5 ft BGS	24-28 ft BGS	24-28 ft BGS	24-28 ft BGS Duplicate	24.5-28.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH48B-13**	**BH49-13**	**BH51-13**	**BH52-13**	**BH53-13**	**BH54-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH57-13**	**BH58-13**
Sample ID:		**GW-38443-070813-JT-099**	**WG-38443-061813-SM-032**	**WG-38443-062113-SM-058**	**WG-38443-061913-SM-041**	**WG-38443-061813-SM-034**	**WG-38443-061813-SM-033**	**WG-38443-061813-SM-035**	**WG-38443-061913-SM-036**	**WG-38443-061913-SM-037**	**WG-38443-061913-SM-038**	**WG-38443-061913-SM-044**
Sample Date:		**7/8/2013**	**6/18/2013**	**6/21/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**30-34 ft BGS**	**21.5-25.5 ft BGS**	**22.5-26.5 ft BGS**	**24.8-28.8 ft BGS**	**22-26 ft BGS**	**21.5-25.5 ft BGS**	**25.5-29.5 ft BGS**	**24-28 ft BGS**	**24-28 ft BGS**	**24-28 ft BGS Duplicate**	**24.5-28.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Naphthalene	ug/L	1.0 U	1.0 U	**0.32 J[b]**	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	200 U	200 U	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	10 U	10 U	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	**11[ab]**	**6.0 J[b]**	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	**660[b]**	**1700[b]**	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	150000	170000	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	7.0 U	7.0 U	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	25 U	25 U	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	**12000[b]**	**8400[b]**	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	3.0 U	3.0 U	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	43000	57000	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	**230[b]**	**440[b]**	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	4.2 J	4.4 J	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	8500	14000	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	83000	120000	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	10 U	**5.9 J[ab]**	-	-	-	-	-	-	-	-	-

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Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH48B-13	BH49-13	BH51-13	BH52-13	BH53-13	BH54-13	BH55-13	BH56-13	BH57-13	BH57-13	BH58-13
Sample ID:		GW-38443-070813-JT-099	WG-38443-061813-SM-032	WG-38443-062113-SM-058	WG-38443-061913-SM-041	WG-38443-061813-SM-034	WG-38443-061813-SM-033	WG-38443-061813-SM-035	WG-38443-061913-SM-036	WG-38443-061913-SM-037	WG-38443-061913-SM-038	WG-38443-061913-SM-044
Sample Date:		7/8/2013	6/18/2013	6/21/2013	6/19/2013	6/18/2013	6/18/2013	6/18/2013	6/19/2013	6/19/2013	6/19/2013	6/19/2013
Sample Depth:		30-34 ft BGS	21.5-25.5 ft BGS	22.5-26.5 ft BGS	24.8-28.8 ft BGS	22-26 ft BGS	21.5-25.5 ft BGS	25.5-29.5 ft BGS	24-28 ft BGS	24-28 ft BGS	24-28 ft BGS Duplicate	24.5-28.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	7.0 U	7.0 U	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	51	50 U	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	0.49 UJ	0.49 UJ	0.52 UJ
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	0.49 UJ	0.49 UJ	0.52 UJ
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	0.49 UJ	0.49 UJ	0.52 UJ
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	0.49 UJ	0.49 UJ	0.52 UJ
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	0.49 UJ	0.49 UJ	0.52 UJ
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	0.49 UJ	0.49 UJ	0.52 UJ
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	0.49 UJ	0.49 UJ	0.52 UJ
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	480 U	540 UJ	530 U	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	480 U	540 UJ	530 U	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH48B-13**	**BH49-13**	**BH51-13**	**BH52-13**	**BH53-13**	**BH54-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH57-13**	**BH58-13**
Sample ID:		**GW-38443-070813-JT-099**	**WG-38443-061813-SM-032**	**WG-38443-062113-SM-058**	**WG-38443-061913-SM-041**	**WG-38443-061813-SM-034**	**WG-38443-061813-SM-033**	**WG-38443-061813-SM-035**	**WG-38443-061913-SM-036**	**WG-38443-061913-SM-037**	**WG-38443-061913-SM-038**	**WG-38443-061913-SM-044**
Sample Date:		**7/8/2013**	**6/18/2013**	**6/21/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**30-34 ft BGS**	**21.5-25.5 ft BGS**	**22.5-26.5 ft BGS**	**24.8-28.8 ft BGS**	**22-26 ft BGS**	**21.5-25.5 ft BGS**	**25.5-29.5 ft BGS**	**24-28 ft BGS**	**24-28 ft BGS**	**24-28 ft BGS Duplicate**	**24.5-28.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH59-13**	**BH60-13**	**BH61-13**	**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH66-13**	**BH67-13**	**BH68-13**	**BH69-13**
Sample ID:		**WG-38443-061913-SM-040**	**WG-38443-061913-SM-045**	**WG-38443-061913-SM-046**	**WG-38443-061913-SM-043**	**WG-38443-062013-SM-052**	**WG-38443-061913-SM-042**	**WG-38443-062013-SM-053**	**GW-38443-062613-SM-074**	**WG-38443-062013-SM-055**	**WG-38443-062013-SM-047**	**WG-38443-062113-SM-059**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/21/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**23-27 ft BGS**	**24.2-28.2 ft BGS**	**24.5-28.5 ft BGS**	**26-30 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**24-28 ft BGS**	**24.5-28.5 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 J	0.55 J	1.0 U	1.7 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	3.3 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	3.0 J	10 U	10 U	10 U	10 U	10 U	10 U	17 U
2-Hexanone	ug/L	10 UJ	10 U	10 U	10 UJ	10 U	10 UJ	10 U	10 U	10 U	10 U	17 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	2.2 J	10 U	10 U	10 U	10 U	10 U	10 U	17 U
Acetone	ug/L	10 U	10 U	10 U	2.4 J	10 U	10 U	10 U	10 U	10 U	10 U	17 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.7 U
Bromomethane (Methyl bromide)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.7 UJ
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 J	0.48 J	0.88 J	0.85 J
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.48 J[b]**
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
cis-1,2-Dichloroethene	ug/L	0.68 J	0.81 J	0.73 J	1.0 U	0.90 J	0.88 J	1.8	2.0	1.0	1.4	**25[b]**
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	0.86 J	1.0 U	1.0 U	1.0 U	0.39 J	0.67 J	1.0 U	1.7 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	17 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.7 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Methylene chloride	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.7 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5
Toluene	ug/L	0.14 J	1.0 U	1.0 U	0.50 J	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	0.92 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 J
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Trichloroethene	ug/L	**1.6[b]**	**1.3[b]**	**0.80 J[b]**	1.0 U	**0.70 J[b]**	**1.1[b]**	1.0 U	1.0 U	1.0 U	1.0 U	**43[ab]**
Trichlorofluoromethane (CFC-11)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.7 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.29 J[b]**	**0.57 J[b]**	1.0 U	1.7 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	7.3	2.0 U	2.0 U	2.0 U	0.64 J	0.30 J	2.0 U	3.3 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH59-13**	**BH60-13**	**BH61-13**	**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH66-13**	**BH67-13**	**BH68-13**	**BH69-13**
Sample ID:		**WG-38443-061913-SM-040**	**WG-38443-061913-SM-045**	**WG-38443-061913-SM-046**	**WG-38443-061913-SM-043**	**WG-38443-062013-SM-052**	**WG-38443-061913-SM-042**	**WG-38443-062013-SM-053**	**GW-38443-062613-SM-074**	**WG-38443-062013-SM-055**	**WG-38443-062013-SM-047**	**WG-38443-062113-SM-059**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/21/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**23-27 ft BGS**	**24.2-28.2 ft BGS**	**24.5-28.5 ft BGS**	**26-30 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**24-28 ft BGS**	**24.5-28.5 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH59-13**	**BH60-13**	**BH61-13**	**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH66-13**	**BH67-13**	**BH68-13**	**BH69-13**
Sample ID:		**WG-38443-061913-SM-040**	**WG-38443-061913-SM-045**	**WG-38443-061913-SM-046**	**WG-38443-061913-SM-043**	**WG-38443-062013-SM-052**	**WG-38443-061913-SM-042**	**WG-38443-062013-SM-053**	**GW-38443-062613-SM-074**	**WG-38443-062013-SM-055**	**WG-38443-062013-SM-047**	**WG-38443-062113-SM-059**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/21/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**23-27 ft BGS**	**24.2-28.2 ft BGS**	**24.5-28.5 ft BGS**	**26-30 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**24-28 ft BGS**	**24.5-28.5 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Naphthalene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	**0.43 J[b]**	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.7 UJ
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH59-13**	**BH60-13**	**BH61-13**	**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH66-13**	**BH67-13**	**BH68-13**	**BH69-13**
Sample ID:		**WG-38443-061913-SM-040**	**WG-38443-061913-SM-045**	**WG-38443-061913-SM-046**	**WG-38443-061913-SM-043**	**WG-38443-062013-SM-052**	**WG-38443-061913-SM-042**	**WG-38443-062013-SM-053**	**GW-38443-062613-SM-074**	**WG-38443-062013-SM-055**	**WG-38443-062013-SM-047**	**WG-38443-062113-SM-059**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/21/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**23-27 ft BGS**	**24.2-28.2 ft BGS**	**24.5-28.5 ft BGS**	**26-30 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**24-28 ft BGS**	**24.5-28.5 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	0.52 UJ	0.49 UJ	0.51 UJ	0.51 UJ	0.50 U	0.49 UJ	0.53 U	0.52 U	0.54 U	0.48 U	0.48 U
Aroclor-1221 (PCB-1221)	ug/L	0.52 UJ	0.49 UJ	0.51 UJ	0.51 UJ	0.50 U	0.49 UJ	0.53 U	0.52 U	0.54 U	0.48 U	0.48 U
Aroclor-1232 (PCB-1232)	ug/L	0.52 UJ	0.49 UJ	0.51 UJ	0.51 UJ	0.50 U	0.49 UJ	0.53 U	0.52 U	0.54 U	0.48 U	0.48 U
Aroclor-1242 (PCB-1242)	ug/L	0.52 UJ	0.49 UJ	0.51 UJ	0.51 UJ	0.50 U	0.49 UJ	0.53 U	0.52 U	0.54 U	0.48 U	0.48 U
Aroclor-1248 (PCB-1248)	ug/L	0.52 UJ	0.49 UJ	0.51 UJ	0.51 UJ	0.50 U	0.49 UJ	0.53 U	0.52 U	0.54 U	0.48 U	0.48 U
Aroclor-1254 (PCB-1254)	ug/L	0.52 UJ	0.49 UJ	0.51 UJ	0.51 UJ	0.50 U	0.49 UJ	0.53 U	0.52 U	0.54 U	0.48 U	0.48 U
Aroclor-1260 (PCB-1260)	ug/L	0.52 UJ	0.49 UJ	0.51 UJ	0.51 UJ	0.50 U	0.49 UJ	0.53 U	0.52 U	0.54 U	0.48 U	0.48 U
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH59-13**	**BH60-13**	**BH61-13**	**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**	**BH66-13**	**BH67-13**	**BH68-13**	**BH69-13**
Sample ID:		**WG-38443-061913-SM-040**	**WG-38443-061913-SM-045**	**WG-38443-061913-SM-046**	**WG-38443-061913-SM-043**	**WG-38443-062013-SM-052**	**WG-38443-061913-SM-042**	**WG-38443-062013-SM-053**	**GW-38443-062613-SM-074**	**WG-38443-062013-SM-055**	**WG-38443-062013-SM-047**	**WG-38443-062113-SM-059**
Sample Date:		**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/21/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**23-27 ft BGS**	**24.2-28.2 ft BGS**	**24.5-28.5 ft BGS**	**26-30 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**24-28 ft BGS**	**24.5-28.5 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

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Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH70-13	BH71-13	BH72-13	BH73-13	BH74-13	BH74-13	BH75-13	BH76-13	BH77-13	BH78-13	BH79-13
Sample ID:		WG-38443-062113-SM-057	WG-38443-062013-SM-054	WG-38443-062013-SM-056	WG-38443-062013-SM-051	WG-38443-062013-SM-048	WG-38443-062013-SM-049	WG-38443-062513-SM-068	GW-38443-062613-SM-072	WG-38443-062513-SM-069	WG-38443-062513-SM-067	GW-38443-062613-SM-075
Sample Date:		6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/25/2013	6/26/2013	6/25/2013	6/25/2013	6/26/2013
Sample Depth:		23.5-27.5 ft BGS	24.5-28.5 ft BGS	21.75-25.75 ft BGS	21.5-25.5 ft BGS	22-26 ft BGS	22-26 ft BGS	23-27 ft BGS	23.5-27.5 ft BGS	23-27 ft BGS	23-27 ft BGS	24-28 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	0.62 J	0.25 J
1,1-Dichloroethene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.4 U	1.0 UJ	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.9 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	2.0 U	1.0 U	0.35 J	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	0.56 J	1.0 U	0.15 J
1,2-Dichloroethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	2.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	2.0 U	1.0 U	2.5[b]	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	5.6[b]	0.20 J	0.50 J[b]
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.3 J	10 U	10 U	10 U	10 U	1.0 J	10 U	10 U	14 U	10 U	10 U
2-Hexanone	ug/L	20 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	14 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	14 U	10 U	10 U
Acetone	ug/L	20 UJ	10 U	10 U	10 U	10 U	10 U	2.4 J	10 U	14 UJ	10 U	10 U
Benzene	ug/L	2.0 U	1.0 U	0.79 J[b]	1.0 U	1.0 U	1.0 U	0.49 J[b]	0.89 J[b]	12[ab]	0.20 J	0.25 J
Bromodichloromethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
Bromoform	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.4 UJ	1.0 U	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.4 UJ	1.0 U	1.0 U
Carbon disulfide	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 UJ	1.0 U	1.0 U
Chlorobenzene	ug/L	2.0 U	0.35 J	7.2	1.0 U	1.0 U	1.0 U	4.5	0.47 J	40[b]	0.44 J	5.7
Chloroethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.1	1.4 UJ	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.57 J[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.72 J	2.0	0.44 J	1.0 U	1.0 U	1.0 U	0.65 J	1.0 U	0.74 J	1.7	1.7
cis-1,3-Dichloropropene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 UJ	1.0 U	1.0 U
Cyclohexane	ug/L	2.0 U	1.0 U	0.74 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U
Dibromochloromethane	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 UJ	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.4 U	1.0 UJ	1.0 U
Ethylbenzene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	0.42 J	0.59 J	1.0 U	1.0 U	2.2[b]	0.27 J	1.0 U
Isopropyl benzene	ug/L	2.0 U	1.0 U	2.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9	0.19 J	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	14 U	10 U	10 U
Methyl cyclohexane	ug/L	2.0 U	1.0 U	0.97 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.70 J	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	2.0	0.24 J	1.0 U	0.36 J
Methylene chloride	ug/L	2.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	0.33 J	1.0 U
Toluene	ug/L	1.2 J	1.0 U	0.24 J	1.0 U	0.25 J	0.33 J	0.19 J	0.15 J	0.50 J	0.48 J	0.17 J
trans-1,2-Dichloroethene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.4 UJ	1.0 UJ	1.0 U
Trichloroethene	ug/L	74[ab]	0.24 J	0.17 J	2.6[b]	0.80 J[b]	0.40 J[b]	1.0 U	1.0 U	1.4 U	0.38 J[b]	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.0 U	1.0 U
Vinyl chloride	ug/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J[b]	1.0 U	0.32 J[b]	0.41 J[b]	5.3[ab]
Xylenes (total)	ug/L	4.0 U	2.0 U	0.53 J	2.0 U	2.2 J	4.1 J	2.0 U	0.35 J	5.7	0.85 J	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH70-13	BH71-13	BH72-13	BH73-13	BH74-13	BH74-13	BH75-13	BH76-13	BH77-13	BH78-13	BH79-13
Sample ID:		WG-38443-062113-SM-057	WG-38443-062013-SM-054	WG-38443-062013-SM-056	WG-38443-062013-SM-051	WG-38443-062013-SM-048	WG-38443-062013-SM-049	WG-38443-062513-SM-068	GW-38443-062613-SM-072	WG-38443-062513-SM-069	WG-38443-062513-SM-067	GW-38443-062613-SM-075
Sample Date:		6/21/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/20/2013	6/25/2013	6/26/2013	6/25/2013	6/25/2013	6/26/2013
Sample Depth:		23.5-27.5 ft BGS	24.5-28.5 ft BGS	21.75-25.75 ft BGS	21.5-25.5 ft BGS	22-26 ft BGS	22-26 ft BGS Duplicate	23-27 ft BGS	23.5-27.5 ft BGS	23-27 ft BGS	23-27 ft BGS	24-28 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH70-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH75-13**	**BH76-13**	**BH77-13**	**BH78-13**	**BH79-13**
Sample ID:		**WG-38443-062113-SM-057**	**WG-38443-062013-SM-054**	**WG-38443-062013-SM-056**	**WG-38443-062013-SM-051**	**WG-38443-062013-SM-048**	**WG-38443-062013-SM-049**	**WG-38443-062513-SM-068**	**GW-38443-062613-SM-072**	**WG-38443-062513-SM-069**	**WG-38443-062513-SM-067**	**GW-38443-062613-SM-075**
Sample Date:		**6/21/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/26/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**24.5-28.5 ft BGS**	**21.75-25.75 ft BGS**	**21.5-25.5 ft BGS**	**22-26 ft BGS**	**22-26 ft BGS Duplicate**	**23-27 ft BGS**	**23.5-27.5 ft BGS**	**23-27 ft BGS**	**23-27 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Naphthalene	ug/L	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	**9.8[b]**	1.0 UJ	1.0 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	200 U	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	10 U	-	-	-
Arsenic	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	10 U	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	**1900[b]**	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	5.0 U	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	2.0 U	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	140000	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	3.7 J	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	7.0 U	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	25 U	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	**26000[b]**	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	3.0 U	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	66000	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	**270[b]**	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	0.20 U	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	40 U	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	24000	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	5.0 U	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	5.0 U	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	58000	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	10 U	-	-	-

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Analytical Results for Groundwater Samples
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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH70-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH75-13**	**BH76-13**	**BH77-13**	**BH78-13**	**BH79-13**
Sample ID:		**WG-38443-062113-SM-057**	**WG-38443-062013-SM-054**	**WG-38443-062013-SM-056**	**WG-38443-062013-SM-051**	**WG-38443-062013-SM-048**	**WG-38443-062013-SM-049**	**WG-38443-062513-SM-068**	**GW-38443-062613-SM-072**	**WG-38443-062513-SM-069**	**WG-38443-062513-SM-067**	**GW-38443-062613-SM-075**
Sample Date:		**6/21/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/26/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**24.5-28.5 ft BGS**	**21.75-25.75 ft BGS**	**21.5-25.5 ft BGS**	**22-26 ft BGS**	**22-26 ft BGS Duplicate**	**23-27 ft BGS**	**23.5-27.5 ft BGS**	**23-27 ft BGS**	**23-27 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	7.0 U	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	50 U	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	0.49 U	0.49 U	0.50 U	0.49 U	0.48 U	0.54 U	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	0.49 U	0.49 U	0.50 U	0.49 U	0.48 U	0.54 U	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	0.49 U	0.49 U	0.50 U	0.49 U	0.48 U	0.54 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	0.49 U	0.49 U	0.50 U	0.49 U	0.48 U	0.54 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	0.49 U	0.49 U	0.50 U	0.49 U	0.48 U	0.54 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	0.49 U	0.49 U	0.50 U	0.49 U	0.48 U	0.54 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	0.49 U	0.49 U	0.50 U	0.49 U	0.48 U	0.54 U	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH70-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH75-13**	**BH76-13**	**BH77-13**	**BH78-13**	**BH79-13**
Sample ID:		**WG-38443-062113-SM-057**	**WG-38443-062013-SM-054**	**WG-38443-062013-SM-056**	**WG-38443-062013-SM-051**	**WG-38443-062013-SM-048**	**WG-38443-062013-SM-049**	**WG-38443-062513-SM-068**	**GW-38443-062613-SM-072**	**WG-38443-062513-SM-069**	**WG-38443-062513-SM-067**	**GW-38443-062613-SM-075**
Sample Date:		**6/21/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/26/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**
Sample Depth:		**23.5-27.5 ft BGS**	**24.5-28.5 ft BGS**	**21.75-25.75 ft BGS**	**21.5-25.5 ft BGS**	**22-26 ft BGS**	**22-26 ft BGS**	**23-27 ft BGS**	**23.5-27.5 ft BGS**	**23-27 ft BGS**	**23-27 ft BGS**	**24-28 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD** Duplicate	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH80-13	BH81-13	BH81-13	BH82-13	BH83-13	BH83-13	BH84-13	BH85-13	BH85-13	BH86-13	BH87-13
Sample ID:		WG-38443-062513-SM-066	GW-038443-062713-SM-079	GW-038443-062713-SM-080	WG-38443-062513-SM-064	WG-38443-062513-SM-063	WG-38443-062513-SM-065	GW-38443-062613-SM-076	WG-38443-062513-SM-070	WG-38443-062513-SM-071	WG-38443-062413-SM-061	GW-38443-062613-SM-077
Sample Date:		6/25/2013	6/27/2013	6/27/2013	6/25/2013	6/25/2013	6/25/2013	6/26/2013	6/25/2013	6/25/2013	6/24/2013	6/26/2013
Sample Depth:		25.5-29.5 ft BGS	25-29 ft BGS	25-29 ft BGS Duplicate	22-26 ft BGS	23.2-27.2 ft BGS	23.2-27.2 ft BGS Duplicate	22-26 ft BGS	23.5-27.5 ft BGS	23.5-27.5 ft BGS Duplicate	25.5-29.5 ft BGS	23-27 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,1-Dichloroethane	ug/L	0.33 J	0.40 J	0.41 J	0.47 J	1.0 U	1.0 U	1.7	0.35 J	0.35 J	2.2 U	0.23 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	2.2 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.4 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	0.54 J	2.2 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
1,4-Dichlorobenzene	ug/L	**1.0[b]**	0.27 J	0.26 J	1.0 U	0.43 J	0.42 J	1.0 U	0.48 J	1.0 U	2.2 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	22 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	22 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	22 U	10 U
Acetone	ug/L	10 UJ	10 U	10 U	10 U	3.6 J	2.3 J	1.9 J	10 U	10 U	22 UJ	10 U
Benzene	ug/L	0.23 J	0.33 J	0.33 J	1.0 U	0.31 J	0.30 J	0.37 J	1.0 U	1.0 U	0.30 J	0.29 J
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	2.2 UJ	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 UJ	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Carbon tetrachloride	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 UJ	1.0 U
Chlorobenzene	ug/L	3.4	2.8	2.7	0.21 J	**8.6[b]**	**8.8[b]**	3.5	1.2	1.0 U	7.2	1.0 U
Chloroethane	ug/L	1.0 UJ	1.0 U	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 UJ	2.6
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.72 J	1.1	1.1	1.0 U	2.1	2.0	2.6	1.0 U	1.0 U	**9.4[b]**	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 UJ	1.0 U
Cyclohexane	ug/L	0.12 J	1.0 U	0.14 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Dibromochloromethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 UJ	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	2.2 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	22 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	0.24 J	0.27 J	0.25 J	0.23 J	0.56 J	0.56 J	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	0.13 J
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Toluene	ug/L	0.13 J	0.23 J	0.22 J	1.0 U	0.21 J	0.23 J	0.15 J	1.0 U	1.0 U	2.2 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	2.2 UJ	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	**0.54 J[b]**	1.0 U	1.0 U	2.2 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2 U	1.0 U
Vinyl chloride	ug/L	**0.41 J[b]**	**0.42 J[b]**	**0.44 J[b]**	**1.9[b]**	**2.1[ab]**	**2.2[ab]**	**0.31 J[b]**	1.0 U	1.0 U	**54[ab]**	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.4 U	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH80-13	BH81-13	BH81-13	BH82-13	BH83-13	BH83-13	BH84-13	BH85-13	BH85-13	BH86-13	BH87-13
Sample ID:		WG-38443-062513-SM-066	GW-038443-062713-SM-079	GW-038443-062713-SM-080	WG-38443-062513-SM-064	WG-38443-062513-SM-063	WG-38443-062513-SM-065	GW-38443-062613-SM-076	WG-38443-062513-SM-070	WG-38443-062513-SM-071	WG-38443-062413-SM-061	GW-38443-062613-SM-077
Sample Date:		6/25/2013	6/27/2013	6/27/2013	6/25/2013	6/25/2013	6/25/2013	6/26/2013	6/25/2013	6/25/2013	6/24/2013	6/26/2013
Sample Depth:		25.5-29.5 ft BGS	25-29 ft BGS	25-29 ft BGS Duplicate	22-26 ft BGS	23.2-27.2 ft BGS	23.2-27.2 ft BGS Duplicate	22-26 ft BGS	23.5-27.5 ft BGS	23.5-27.5 ft BGS Duplicate	25.5-29.5 ft BGS	23-27 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH80-13**	**BH81-13**	**BH81-13**	**BH82-13**	**BH83-13**	**BH83-13**	**BH84-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**
Sample ID:		**WG-38443-062513-SM-066**	**GW-038443-062713-SM-079**	**GW-038443-062713-SM-080**	**WG-38443-062513-SM-064**	**WG-38443-062513-SM-063**	**WG-38443-062513-SM-065**	**GW-38443-062613-SM-076**	**WG-38443-062513-SM-070**	**WG-38443-062513-SM-071**	**WG-38443-062413-SM-061**	**GW-38443-062613-SM-077**
Sample Date:		**6/25/2013**	**6/27/2013**	**6/27/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**
Sample Depth:		**25.5-29.5 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**22-26 ft BGS**	**23.2-27.2 ft BGS**	**23.2-27.2 ft BGS**	**22-26 ft BGS**	**23.5-27.5 ft BGS**	**23.5-27.5 ft BGS**	**25.5-29.5 ft BGS**	**23-27 ft BGS**
				Duplicate			**Duplicate**			**Duplicate**		
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Naphthalene	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	**1.3 J[b]**	**0.24 J[b]**	2.2 U	1.0 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	200 U	200 U	-	-	-	-	200 U	200 U	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	10 U	10 U	-	-	-	-	10 U	10 U	-	-
Arsenic	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	-	10 U	10 U	-	-	-	-	**21[ab]**	**20[ab]**	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	**760[b]**	**740[b]**	-	-	-	-	**800[b]**	**700[b]**	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	140000	140000	-	-	-	-	82000	81000	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	7.0 U	7.0 U	-	-	-	-	7.0 U	7.0 U	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	25 U	25 U	-	-	-	-	25 U	25 U	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	**5600[b]**	**5500[b]**	-	-	-	-	**1500[b]**	**1500[b]**	-	-
Lead	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	-	3.0 U	3.0 U	-	-	-	-	3.0 U	3.0 U	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	56000	55000	-	-	-	-	51000	50000	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	**150[b]**	**140[b]**	-	-	-	-	**100[b]**	**100[b]**	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	4.6 J	4.1 J	-	-	-	-	40 U	40 U	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	18000	18000	-	-	-	-	23000	23000	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	88000	85000	-	-	-	-	78000	77000	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	10 U	10 U	-	-	-	-	10 U	10 U	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH80-13**	**BH81-13**	**BH81-13**	**BH82-13**	**BH83-13**	**BH83-13**	**BH84-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**
Sample ID:		**WG-38443-062513-SM-066**	**GW-038443-062713-SM-079**	**GW-038443-062713-SM-080**	**WG-38443-062513-SM-064**	**WG-38443-062513-SM-063**	**WG-38443-062513-SM-065**	**GW-38443-062613-SM-076**	**WG-38443-062513-SM-070**	**WG-38443-062513-SM-071**	**WG-38443-062413-SM-061**	**GW-38443-062613-SM-077**
Sample Date:		**6/25/2013**	**6/27/2013**	**6/27/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**
Sample Depth:		**25.5-29.5 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**	**22-26 ft BGS**	**23.2-27.2 ft BGS**	**23.2-27.2 ft BGS**	**22-26 ft BGS**	**23.5-27.5 ft BGS**	**23.5-27.5 ft BGS**	**25.5-29.5 ft BGS**	**23-27 ft BGS**
				Duplicate			**Duplicate**			**Duplicate**		
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	7.0 U	7.0 U	-	-	-	-	7.0 U	7.0 U	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	50 U	50 U	-	-	-	-	50 U	50 U	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH80-13	BH81-13	BH81-13	BH82-13	BH83-13	BH83-13	BH84-13	BH85-13	BH85-13	BH86-13	BH87-13
Sample ID:		WG-38443-062513-SM-066	GW-038443-062713-SM-079	GW-038443-062713-SM-080	WG-38443-062513-SM-064	WG-38443-062513-SM-063	WG-38443-062513-SM-065	GW-38443-062613-SM-076	WG-38443-062513-SM-070	WG-38443-062513-SM-071	WG-38443-062413-SM-061	GW-38443-062613-SM-077
Sample Date:		6/25/2013	6/27/2013	6/27/2013	6/25/2013	6/25/2013	6/25/2013	6/26/2013	6/25/2013	6/25/2013	6/24/2013	6/26/2013
Sample Depth:		25.5-29.5 ft BGS	25-29 ft BGS	25-29 ft BGS Duplicate	22-26 ft BGS	23.2-27.2 ft BGS	23.2-27.2 ft BGS Duplicate	22-26 ft BGS	23.5-27.5 ft BGS	23.5-27.5 ft BGS Duplicate	25.5-29.5 ft BGS	23-27 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH88-13**	**BH89-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH93-13**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**
Sample ID:		**WG-38443-062413-SM-060**	**WG-38443-062413-SM-062**	**GW-38443-070913-JT-101**	**GW-38443-062813-SM-084**	**GW-38443-070913-JT-102**	**GW-38443-070913-JT-104**	**96-DV-03-S23**	**96-DV-03-D23**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**
Sample Date:		**6/24/2013**	**6/24/2013**	**7/9/2013**	**6/28/2013**	**7/9/2013**	**7/9/2013**	**7/9/1996**	**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/19/1999**	**11/11/1999**	**5/10/2000**
Sample Depth:		**23-27 ft BGS**	**20.8-24.8 ft BGS**	**29.5-33.5 ft BGS**	**27-31 ft BGS**	**21.8-25.8 ft BGS**	**20-24 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**OEPA**	**Duplicate OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**													
Volatiles														
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	U	U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,1-Dichloroethane	ug/L	1.0 U	0.62 J	1.0 U	1.0 U	5.2[b]	1.0 U	13[b]	13[b]	16[b]	20[b]	14[b]	U	32[b]
1,1-Dichloroethene	ug/L	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	1.2 J[b]	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	34[ab]	U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	150	140	180	270	200	U	410
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	1.0 J	10 U	1.4 J	2.3 J	10 U	10 U	-	-	-	-	-
2-Hexanone	ug/L	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	-	-	-	-	-
Acetone	ug/L	2.6 J	10 U	10 U	10 U	3.6 J	1.4 J	30	29	U	U	U	U	U
Benzene	ug/L	0.67 J[b]	0.21 J	1.0 U	1.0 U	0.55 J[b]	0.62 J[b]	10 U	10 U	U	U	U	U	U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	0.6 J	U	U	U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	10 U	10 U	-	-	-	-	-
Carbon disulfide	ug/L	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Chlorobenzene	ug/L	2.9	1.4	1.0 U	0.48 J	5.7	1.0 U	10 U	10 U	U	U	U	U	U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	2 J	10 U	U	U	U	U	U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	0.33 J	17[b]	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	0.36 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.39 J	1.0 U	10 U	10 U	-	-	-	-	-
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	10 U	4 J	U	U	1.4 JB	5 B	U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	0.78 J	U	U	U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	U	U
Toluene	ug/L	0.49 J	0.18 J	0.16 J	0.14 J	0.38 J	0.41 J	10 U	1 J	U	7.2 J	5.1 J	U	U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Trichloroethene	ug/L	1.0 U	11[ab]	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	U	U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Vinyl chloride	ug/L	2.5[ab]	7.0[ab]	1.0 U	1.0 U	1.0 U	1.0 U	4 J[ab]	4 J[ab]	32[ab]	88[ab]	48[ab]	U	150[ab]
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	0.75 J	2.0 U	10 U	10 U	U	U	U	U	U
Semi-Volatiles														
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH88-13	BH89-13	BH90-13	BH91-13	BH92-13	BH93-13	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A
Sample ID:		WG-38443-062413-SM-060	WG-38443-062413-SM-062	GW-38443-070913-JT-101	GW-38443-062813-SM-084	GW-38443-070913-JT-102	GW-38443-070913-JT-104	96-DV-03-S23	96-DV-03-D23	MW101A	MW101A	MW101A	MW101A	MW101A
Sample Date:		6/24/2013	6/24/2013	7/9/2013	6/28/2013	7/9/2013	7/9/2013	7/9/1996	7/9/1996	1/6/1998	5/28/1998	2/19/1999	11/11/1999	5/10/2000
Sample Depth:		23-27 ft BGS	20.8-24.8 ft BGS	29.5-33.5 ft BGS	27-31 ft BGS	21.8-25.8 ft BGS	20-24 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	OEPA	Duplicate OEPA	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**													
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	2 J	10 U	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	10 JBU	10 JBU	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	1 J	10 U	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH88-13**	**BH89-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH93-13**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**
Sample ID:		**WG-38443-062413-SM-060**	**WG-38443-062413-SM-062**	**GW-38443-070913-JT-101**	**GW-38443-062813-SM-084**	**GW-38443-070913-JT-102**	**GW-38443-070913-JT-104**	**96-DV-03-S23**	**96-DV-03-D23**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**
Sample Date:		**6/24/2013**	**6/24/2013**	**7/9/2013**	**6/28/2013**	**7/9/2013**	**7/9/2013**	**7/9/1996**	**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/19/1999**	**11/11/1999**	**5/10/2000**
Sample Depth:		**23-27 ft BGS**	**20.8-24.8 ft BGS**	**29.5-33.5 ft BGS**	**27-31 ft BGS**	**21.8-25.8 ft BGS**	**20-24 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**OEPA**	**OEPA Duplicate**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**													
Naphthalene	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	4.9[b]	1.2[b]	10 U	10 U	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	25 U	25 U	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	130 EB	10 U	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	10 U	10 U	-	-	-	-	-
Metals														
Aluminum	ug/L	-	-	-	-	-	-	10000[b]	361	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	200 U	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	3 U	3 U	-	-	-	-	-
Antimony (dissolved)	ug/L	-	10 U	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	-	-	-	-	-	-	9.6 B[b]	4 U	U	U	U	-	-
Arsenic (dissolved)	ug/L	-	9.4 J[b]	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	330	347	U	U	240	-	-
Barium (dissolved)	ug/L	-	240	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	1 U	1 U	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	5.0 U	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	1 U	1 U	U	U	U	-	-
Cadmium (dissolved)	ug/L	-	2.0 U	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	224000	81700	-	-	-	-	-
Calcium (dissolved)	ug/L	-	130000	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	17.4	1.2 B	12	U	26	-	-
Chromium (dissolved)	ug/L	-	5.0 U	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	12.3 B[b]	2 B[b]	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	4.1 J[b]	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	30.8	4.9 B	-	-	-	-	-
Copper (dissolved)	ug/L	-	25 U	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	20600[b]	720	-	-	-	-	-
Iron (dissolved)	ug/L	-	3100[b]	-	-	-	-	-	-	-	1000	1600[b]	-	-
Lead	ug/L	-	-	-	-	-	-	21.5[ab]	8.7	U	U	U	-	-
Lead (dissolved)	ug/L	-	3.0 U	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	76800	12400	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	57000	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	1000[b]	86.7[b]	-	-	-	-	-
Manganese (dissolved)	ug/L	-	480[b]	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	0.2 U	0.2 U	U	U	-	-	-
Mercury (dissolved)	ug/L	-	0.20 U	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	29.7 B	14.2 B	-	-	-	-	-
Nickel (dissolved)	ug/L	-	9.1 J	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	39600	114000	-	-	-	-	-
Potassium (dissolved)	ug/L	-	21000	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	4 U	4 U	U	U	-	-	-
Selenium (dissolved)	ug/L	-	5.0 U	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	1 U	1 U	U	U	-	-	-
Silver (dissolved)	ug/L	-	5.0 U	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	46200	98700	-	-	-	-	-
Sodium (dissolved)	ug/L	-	86000	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	4.4 B[ab]	4 U	-	-	-	-	-
Thallium (dissolved)	ug/L	-	10 U	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH88-13	BH89-13	BH90-13	BH91-13	BH92-13	BH93-13	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A
Sample ID:		WG-38443-062413-SM-060	WG-38443-062413-SM-062	GW-38443-070913-JT-101	GW-38443-062813-SM-084	GW-38443-070913-JT-102	GW-38443-070913-JT-104	96-DV-03-S23	96-DV-03-D23	MW101A	MW101A	MW101A	MW101A	MW101A
Sample Date:		6/24/2013	6/24/2013	7/9/2013	6/28/2013	7/9/2013	7/9/2013	7/9/1996	7/9/1996	1/6/1998	5/28/1998	2/19/1999	11/11/1999	5/10/2000
Sample Depth:		23-27 ft BGS	20.8-24.8 ft BGS	29.5-33.5 ft BGS	27-31 ft BGS	21.8-25.8 ft BGS	20-24 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	OEPA	OEPA Duplicate	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**													
Vanadium	ug/L	-	-	-	-	-	-	20.9 B[b]	1 U	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	7.0 U	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	77.7	10 B	-	-	-	-	-
Zinc (dissolved)	ug/L	-	50 U	-	-	-	-	-	-	-	-	-	-	-
PCBs														
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	1 U	1 U	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	2 U	2 U	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	1 U	1 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	1 U	1 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	1 U	1 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	1 U	1 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	1 U	1 U	-	-	-	-	-
Pesticides														
4,4'-DDD	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	0.1 U	0.1 U	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	0.051 PJ[b]	0.0082 PJ[b]	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	0.05 U	0.05 U	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	0.5 U	0.5 U	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	5 U	5 U	-	-	-	-	-
Gases														
Ethane	ug/L	-	-	-	-	-	-	-	-	-	5600	5.1	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	4000	6.7	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	830 D/270 E	290 E/690 D	-	-
Herbicides														
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products														
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry														
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	530000	450000	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	900	600	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	16200	14700	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	3 U	3 U	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH88-13	BH89-13	BH90-13	BH91-13	BH92-13	BH93-13	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A
Sample ID:		WG-38443-062413-SM-060	WG-38443-062413-SM-062	GW-38443-070913-JT-101	GW-38443-062813-SM-084	GW-38443-070913-JT-102	GW-38443-070913-JT-104	96-DV-03-S23	96-DV-03-D23	MW101A	MW101A	MW101A	MW101A	MW101A
Sample Date:		6/24/2013	6/24/2013	7/9/2013	6/28/2013	7/9/2013	7/9/2013	7/9/1996	7/9/1996	1/6/1998	5/28/1998	2/19/1999	11/11/1999	5/10/2000
Sample Depth:		23-27 ft BGS	20.8-24.8 ft BGS	29.5-33.5 ft BGS	27-31 ft BGS	21.8-25.8 ft BGS	20-24 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS Duplicate	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	OEPA	OEPA	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**													
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	U	U	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	31100	30200	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	3000	4000	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202
Sample ID:		MW101A	MW101A	MW101A	MW101A	MW101A	GW-38443-091008-NZ-010	GW-38443-091008-NZ-011	GW-38443-051315-GL-012	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
Sample Date:		6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/10/2008	9/10/2008	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/15/2004
Sample Depth:		23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD Duplicate	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																
Volatiles																	
1,1,1-Trichloroethane	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	ug/L	U	U	U	U	U	1.0 UJ	1.0 UJ	1.0 U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	31[b]	39[b]	8.7[b]	9.6[b]	6.2[b]	2.8	2.8	0.44 J	U	U	U	U	U	U	U	U
1,1-Dichloroethene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2.6 J[b]	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	ug/L	400	480	41	92	57	-	-	-	U	3	U	U	U	U	U	U
1,2-Dichloropropane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
Acetone	ug/L	U	U	U	U	U	10 U	10 U	10 U	U	U	U	U	U	U	U	U
Benzene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Bromodichloromethane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Bromoform	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 UJ	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Chloroethane	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	22[b]	22[b]	1.8	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	5.0 U	5.0 U	1.0 U	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	3 J	U	U	U	U	U	U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	U	U	U	U	U	1.0 UJ	1.0 UJ	1.0 U	U	U	U	U	U	U	U	U
Tetrachloroethene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Toluene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	8.3	9	U	6.2	U	U	U	U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	0.30 J	0.26 J	1.0 U	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	38[ab]	39[ab]	39[ab]	35[ab]	41[ab]	31[ab]	11[ab]	12[ab]
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	140[ab]	180[ab]	14[ab]	20[ab]	12[ab]	5.9[ab]	5.6[ab]	1.7[b]	U	U	U	U	U	U	U	U
Xylenes (total)	ug/L	U	U	U	U	U	2.0 U	2.0 U	2.0 U	U	U	U	U	U	U	U	U
Semi-Volatiles																	
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-

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Analytical Results for Groundwater Samples
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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202
Sample ID:		MW101A	MW101A	MW101A	MW101A	MW101A	GW-38443-091008-NZ-010	GW-38443-091008-NZ-011	GW-38443-051315-GL-012	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
Sample Date:		6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/10/2008	9/10/2008	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/15/2004
Sample Depth:		23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD Duplicate	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	5.0 UJ	5.0 U	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	2.0 U	2.2 U	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	4.3 J	4.7 J	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	R	R	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202
Sample ID:		MW101A	MW101A	MW101A	MW101A	MW101A	GW-38443-091008-NZ-010	GW-38443-091008-NZ-011	GW-38443-051315-GL-012	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
Sample Date:		6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/10/2008	9/10/2008	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/15/2004
Sample Depth:		23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS Duplicate	23.5-33.5 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																
Naphthalene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-
Metals																	
Aluminum	ug/L	-	-	-	-	-	103 J	200 U	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	-	-	-	-	-	6.6[b]	6.9[b]	-	U	U	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	642[b]	675[b]	-	U	U	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	U	U	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	79900	84100	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	10.0 U	10.0 U	-	U	10	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	50.0 U	50.0 U	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	25.0 U	25.0 U	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	1720[b]	1880[b]	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	1100	840	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	U	U	-	-	-	-	-	-
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	44200	46800	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	26.9	28.5	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	0.20 U	0.20 U	-	U	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	40.0 U	40.0 U	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	17300	18000	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	5.0 U	5.0 U	-	15[b]	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	U	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	27000	28300	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**
Sample ID:		**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**GW-38443-091008-NZ-010**	**GW-38443-091008-NZ-011**	**GW-38443-051315-GL-012**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**
Sample Date:		**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/15/2004**	**8/4/2005**	**9/10/2008**	**9/10/2008**	**5/13/2015**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/15/2004**
Sample Depth:		**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**																
Vanadium	ug/L	-	-	-	-	-	50.0 U	50.0 U	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	20.0 U	20.0 U	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																	
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	0.20 UJ	0.20 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	0.20 UJ	0.20 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	0.20 UJ	0.20 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	0.20 UJ	0.20 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	0.20 UJ	0.20 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	0.20 UJ	0.20 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	0.20 UJ	0.20 UJ	-	-	-	-	-	-	-	-	-
Pesticides																	
4,4'-DDD	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	0.10 U	0.10 U	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
Gases																	
Ethane	ug/L	-	-	-	-	-	-	-	-	U	U	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	U	U	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	0.5	4	-	-	-	-	-	-
Herbicides																	
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-
Petroleum Products																	
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																	
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	380000	270000	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	U	U	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	145000	121000	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202
Sample ID:		MW101A	MW101A	MW101A	MW101A	MW101A	GW-38443-091008-NZ-010	GW-38443-091008-NZ-011	GW-38443-051315-GL-012	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202
Sample Date:		6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/10/2008	9/10/2008	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/15/2004
Sample Depth:		23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD Duplicate	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	2100	2300	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	72200	66500	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	U	2000	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-202	MW-202	MW-202	MW-202	MW-202	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203
Sample ID:		MW202	GW-38443-090508-GL-003	GW-38443-090508-GL-004	GW-38443-072809-GL-019	GW-38443-051215-GL-007	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	GW-38443-090908-NZ-008
Sample Date:		8/3/2005	9/5/2008	9/5/2008	7/28/2009	5/12/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/4/2005	9/9/2008
Sample Depth:		30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS
Sampling Company:		Payne	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	U	1.0 U	1.0 U	1.0 UJ	1.0 U	U	U	U	U	U	U	U	U	U	1.0 UJ
1,1,2-Trichloroethane	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,1-Dichloroethane	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	1 J	13[b]	U	U	U	U	U	U	0.99 J
1,1-Dichloroethene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	0.24 J
1,2,4-Trichlorobenzene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dichlorobenzene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dichloroethane	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	5[b]	U	U	U	U	U	U	U	U	1.0 U
1,2-Dichloroethene (total)	ug/L	U	-	-	-	-	U	8	25	U	U	U	14	21	11	-
1,2-Dichloropropane	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,3-Dichlorobenzene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,4-Dichlorobenzene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U
2-Hexanone	ug/L	-	10 U	10 U	10 UJ	10 U	-	-	-	-	-	-	-	-	-	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	10 U	10 U	10 UJ	10 U	-	-	-	-	-	-	-	-	-	10 U
Acetone	ug/L	U	10 U	10 U	10 U	10 U	U	U	U	U	U	U	U	U	U	10 U
Benzene	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	0.7[b]	U	U	U	U	U	U	U	1.0 U
Bromodichloromethane	ug/L	-	1.3[b]	1.3[b]	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Bromoform	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Bromomethane (Methyl bromide)	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 UJ	-	-	-	-	-	-	-	-	-	1.0 U
Carbon disulfide	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Carbon tetrachloride	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Chlorobenzene	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	26[b]	24[b]	19[b]	27[b]	29[b]	29[b]	12[b]	12[b]	9.9[b]	4.4
Chloroethane	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	3 J	U	U	U	U	U	U	U	1.0 U
Chloroform (Trichloromethane)	ug/L	-	3.0[b]	3.1[b]	0.37 J[b]	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Chloromethane (Methyl chloride)	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
cis-1,2-Dichloroethene	ug/L	-	0.31 J	0.34 J	0.39 J	1.0 U	-	-	-	-	-	-	-	-	-	13[b]
cis-1,3-Dichloropropene	ug/L	-	1.0 U	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Cyclohexane	ug/L	-	1.0 U	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Dibromochloromethane	ug/L	-	0.76 J	0.74 J	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	1.0 U	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Ethylbenzene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Isopropyl benzene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	10 U	10 U	10 UJ	10 U	-	-	-	-	-	-	-	-	-	10 U
Methyl cyclohexane	ug/L	-	1.0 U	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	-	5.0 U	5.0 U	5.0 U	1.0 U	-	-	-	-	-	-	-	-	-	5.0 U
Methylene chloride	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	3 J	U	U	U	U	U	U	U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 UJ
Tetrachloroethene	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Toluene	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	4.9 J	5	8.4	U	U	U	U	U	U	1.0 U
trans-1,2-Dichloroethene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	0.22 J
trans-1,3-Dichloropropene	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Trichloroethene	ug/L	8.1[ab]	3.3[b]	3.3[b]	3.1[b]	2.3[b]	U	U	U	U	U	U	U	U	U	2.1[b]
Trichlorofluoromethane (CFC-11)	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Vinyl chloride	ug/L	U	1.0 U	1.0 U	1.0 U	1.0 U	U	2 J[b]	U	U	U	U	U	U	U	3.2 J[ab]
Xylenes (total)	ug/L	U	2.0 U	2.0 U	2.0 U	2.0 U	U	U	U	U	U	U	U	U	U	2.0 U
Semi-Volatiles																
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-202	MW-202	MW-202	MW-202	MW-202	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203
Sample ID:		MW202	GW-38443-090508-GL-003	GW-38443-090508-GL-004	GW-38443-072809-GL-019	GW-38443-051215-GL-007	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	GW-38443-090908-NZ-008
Sample Date:		8/3/2005	9/5/2008	9/5/2008	7/28/2009	5/12/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/4/2005	9/9/2008
Sample Depth:		30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS
Sampling Company:		Payne	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**															
2,4,5-Trichlorophenol	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
2,4,6-Trichlorophenol	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
2,4-Dichlorophenol	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
2,4-Dimethylphenol	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
2,4-Dinitrophenol	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
2,4-Dinitrotoluene	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
2,6-Dinitrotoluene	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
2-Chloronaphthalene	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
2-Chlorophenol	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
2-Methylnaphthalene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
2-Methylphenol	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
2-Nitroaniline	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
2-Nitrophenol	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
3-Nitroaniline	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Chloro-3-methylphenol	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Chloroaniline	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Methylphenol	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
4-Nitroaniline	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Nitrophenol	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
Acenaphthene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Acenaphthylene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Acetophenone	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Anthracene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Atrazine	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Benzaldehyde	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Benzo(a)anthracene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(a)pyrene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(b)fluoranthene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(g,h,i)perylene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(k)fluoranthene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
Butyl benzylphthalate (BBP)	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Caprolactam	ug/L	-	18	20	5.0 UJ	-	-	-	-	-	-	-	-	-	-	5.0 U
Carbazole	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Chrysene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Dibenz(a,h)anthracene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Dibenzofuran	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Diethyl phthalate	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Dimethyl phthalate	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	1.2 U	1.4 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.2 U
Di-n-octyl phthalate (DnOP)	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Fluoranthene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Fluorene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Hexachlorobenzene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Hexachlorobutadiene	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Hexachlorocyclopentadiene	ug/L	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-	-	-	10 U
Hexachloroethane	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Isophorone	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-202	MW-202	MW-202	MW-202	MW-202	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203
Sample ID:		MW202	GW-38443-090508-GL-003	GW-38443-090508-GL-004	GW-38443-072809-GL-019	GW-38443-051215-GL-007	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	GW-38443-090908-NZ-008
Sample Date:		8/3/2005	9/5/2008	9/5/2008	7/28/2009	5/12/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/4/2005	9/9/2008
Sample Depth:		30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS
Sampling Company:		Payne	CRA/GHD	CRA/GHD Duplicate	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**															
Naphthalene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Nitrobenzene	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
N-Nitrosodiphenylamine	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Pentachlorophenol	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
Phenanthrene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Phenol	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
Pyrene	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Metals																
Aluminum	ug/L	-	241 J	323 J	200 U	-	-	-	-	-	-	-	-	-	-	200 U
Aluminum (dissolved)	ug/L	-	-	-	200 U	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
Antimony (dissolved)	ug/L	-	-	-	2.0 U	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	-	1.3 J[b]	1.8 J[b]	0.94 J[b]	-	19[ab]	27[ab]	-	-	-	-	-	-	-	29.9[ab]
Arsenic (dissolved)	ug/L	-	-	-	0.89 J[b]	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	132 J	134 J	154 J	-	U	U	-	-	-	-	-	-	-	172 J
Barium (dissolved)	ug/L	-	-	-	149 J	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	5.0 U	5.0 U	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U
Beryllium (dissolved)	ug/L	-	-	-	5.0 U	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	1.0 U	1.0 U	1.0 U	-	U	U	-	-	-	-	-	-	-	1.0 U
Cadmium (dissolved)	ug/L	-	-	-	1.0 U	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	120000	123000	142000	-	-	-	-	-	-	-	-	-	-	127000
Calcium (dissolved)	ug/L	-	-	-	138000	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	10.0 U	10.0 U	10.0 U	-	U	U	-	-	-	-	-	-	-	10.0 U
Chromium (dissolved)	ug/L	-	-	-	10.0 U	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	50.0 U	50.0 U	2.0 J[b]	-	-	-	-	-	-	-	-	-	-	50.0 U
Cobalt (dissolved)	ug/L	-	-	-	50.0 U	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	25.0 U	25.0 U	25.0 U	-	-	-	-	-	-	-	-	-	-	25.0 U
Copper (dissolved)	ug/L	-	-	-	25.0 U	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	416 J	613 J	221	-	-	-	-	-	-	-	-	-	-	3600[b]
Iron (dissolved)	ug/L	-	-	-	100 U	-	2100[b]	4200[b]	-	-	-	-	-	-	-	-
Lead	ug/L	-	0.34 J	0.45 J	1.0 U	-	U	U	-	-	-	-	-	-	-	1.0 U
Lead (dissolved)	ug/L	-	-	-	1.0 U	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	49100	50300	52700	-	-	-	-	-	-	-	-	-	-	55300
Magnesium (dissolved)	ug/L	-	-	-	51000	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	12.7 J	18.4	8.5 J	-	-	-	-	-	-	-	-	-	-	780[b]
Manganese (dissolved)	ug/L	-	-	-	0.65 J	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	250 U	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	0.20 U	0.20 U	0.20 U	-	U	-	-	-	-	-	-	-	-	0.20 U
Mercury (dissolved)	ug/L	-	-	-	0.20 U	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	40.0 U	40.0 U	3.5 J	-	-	-	-	-	-	-	-	-	-	40.0 U
Nickel (dissolved)	ug/L	-	-	-	40.0 U	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	8860	8880	9720	-	-	-	-	-	-	-	-	-	-	13400
Potassium (dissolved)	ug/L	-	-	-	9440 J	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	15.2[b]	15.2[b]	25.3[b]	-	U	-	-	-	-	-	-	-	-	5.0 U
Selenium (dissolved)	ug/L	-	-	-	26.3[b]	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	1.0 U	1.0 U	1.0 U	-	U	-	-	-	-	-	-	-	-	1.0 U
Silver (dissolved)	ug/L	-	-	-	1.0 U	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	85300	85800	99200	-	-	-	-	-	-	-	-	-	-	73900
Sodium (dissolved)	ug/L	-	-	-	96700	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	0.41 J[b]
Thallium (dissolved)	ug/L	-	-	-	1.0 U	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-202	MW-202	MW-202	MW-202	MW-202	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203
Sample ID:		MW202	GW-38443-090508-GL-003	GW-38443-090508-GL-004	GW-38443-072809-GL-019	GW-38443-051215-GL-007	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	GW-38443-090908-NZ-008
Sample Date:		8/3/2005	9/5/2008	9/5/2008	7/28/2009	5/12/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/4/2005	9/9/2008
Sample Depth:		30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS
Sampling Company:		Payne	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**															
Vanadium	ug/L	-	50.0 U	50.0 U	0.92 J	-	-	-	-	-	-	-	-	-	-	50.0 U
Vanadium (dissolved)	ug/L	-	-	-	50.0 U	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	26.0 U	20.0 U	20.0 U	-	-	-	-	-	-	-	-	-	-	20.0 U
Zinc (dissolved)	ug/L	-	-	-	20.0 U	-	-	-	-	-	-	-	-	-	-	-
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1232 (PCB-1232)	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	-	0.20 U	0.20 U	0.19 J[b]	-	-	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1248 (PCB-1248)	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	-	0.20 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1260 (PCB-1260)	ug/L	-	0.20 U	0.20 U	0.16 J[b]	-	-	-	-	-	-	-	-	-	-	0.20 U
Pesticides																
4,4'-DDD	ug/L	-	0.050 UJ	0.050 UJ	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
4,4'-DDE	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
4,4'-DDT	ug/L	-	0.050 UJ	0.050 UJ	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Aldrin	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
alpha-BHC	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
alpha-Chlordane	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
beta-BHC	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
delta-BHC	ug/L	-	0.050 U	0.020 J	0.050 U	-	-	-	-	-	-	-	-	-	-	0.017 J
Dieldrin	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Endosulfan I	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Endosulfan II	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Endosulfan sulfate	ug/L	-	0.050 U	0.050 U	0.050 UJ	-	-	-	-	-	-	-	-	-	-	0.050 U
Endrin	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Endrin aldehyde	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Endrin ketone	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
gamma-BHC (lindane)	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
gamma-Chlordane	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Heptachlor	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Heptachlor epoxide	ug/L	-	0.050 U	0.050 U	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U
Methoxychlor	ug/L	-	0.10 UJ	0.10 UJ	0.10 U	-	-	-	-	-	-	-	-	-	-	0.10 U
Toxaphene	ug/L	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U
Gases																
Ethane	ug/L	-	-	-	0.50 U	-	18 D/20 E	23	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	0.50 U	-	0.58	U	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	0.50 U	-	280 E/910 E	1500 D/330 E	-	-	-	-	-	-	-	-
Herbicides																
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	4.0 U	4.0 U	4.0 U	-	-	-	-	-	-	-	-	-	-	4.0 U
Petroleum Products																
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																
Alkalinity, total (as CaCO3)	ug/L	-	-	-	413000	-	540000	430000	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	3300	2900	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	162000	-	75500	67100	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	11[b]	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	2000	-	-	-	-	-	-	-	-	-	-	-

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Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-203**	**MW-203**	**MW-203**	**MW-203**	**MW-203**	**MW-203**	**MW-203**	**MW-203**	**MW-203**	**MW-203**
Sample ID:		**MW202**	**GW-38443-090508-GL-003**	**GW-38443-090508-GL-004**	**GW-38443-072809-GL-019**	**GW-38443-051215-GL-007**	**MW203**	**MW203**	**MW203**	**MW203**	**MW203**	**MW203**	**MW203**	**MW203**	**MW203**	**GW-38443-090908-NZ-008**
Sample Date:		**8/3/2005**	**9/5/2008**	**9/5/2008**	**7/28/2009**	**5/12/2015**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/4/2005**	**9/9/2008**
Sample Depth:		**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**	**27-37 ft BGS**
Sampling Company:		**Payne**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**
Parameters	**Units**															
Hardness	ug/L	-	-	-	571000	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	1800	-	U	U	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	100 U	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	94700	-	34500	33600	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	3000 U	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	7000	11000	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-203**	**MW-203**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-208**
Sample ID:		**GW-38443-072409-GL-015**	**GW-38443-051315-GL-011**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**GW-38443-091008-NZ-012**	**GW-38443-072809-GL-018**	**GW-38443-051115-GL-001**	**MW208**
Sample Date:		**7/24/2009**	**5/13/2015**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/10/2008**	**7/28/2009**	**5/11/2015**	**2/18/1999**
Sample Depth:		**27-37 ft BGS**	**27-37 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**32-42 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 UJ	1.0 U	U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,1-Dichloroethane	ug/L	0.90 J	0.32 J	U	U	U	U	U	U	U	U	U	0.33 J	0.29 J	1.0 U	U
1,1-Dichloroethene	ug/L	0.29 J	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,2,4-Trichlorobenzene	ug/L	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
1,2-Dichloroethene (total)	ug/L	-	-	U	U	U	U	U	U	U	U	U	-	-	-	2 J
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
2-Hexanone	ug/L	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
Acetone	ug/L	10 U	10 U	U	U	U	U	U	U	U	U	U	10 U	10 U	10 U	U
Benzene	ug/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
Bromodichloromethane	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Bromoform	ug/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 UJ	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 UJ	-
Carbon disulfide	ug/L	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Carbon tetrachloride	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Chlorobenzene	ug/L	3.9	1.4	U	U	U	U	U	U	U	U	U	1.0 U	0.22 J	0.31 J	U
Chloroethane	ug/L	1.0 U	1.0 U	2.9 J	2 J	U	U	U	U	U	U	U	0.53 J	1.0 U	1.0 U	U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	0.34 J	1.0 U	1.0 U	-
cis-1,2-Dichloroethene	ug/L	12[b]	5.0[b]	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Cyclohexane	ug/L	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Dibromochloromethane	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Ethylbenzene	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Isopropyl benzene	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
Methyl cyclohexane	ug/L	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	1.0 U	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	-
Methylene chloride	ug/L	1.0 U	1.0 U	U	2 J	5.8 B[a]	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.8 J
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	U
Tetrachloroethene	ug/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
Toluene	ug/L	1.0 U	1.0 U	4.3 J	6	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Trichloroethene	ug/L	1.3[b]	1.1[b]	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2 J[b]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Vinyl chloride	ug/L	1.6[b]	1.6[b]	U	U	U	U	U	U	U	U	U	1.0[b]	0.30 J[b]	1.0 U	1 J[b]
Xylenes (total)	ug/L	2.0 U	2.0 U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	U
Semi-Volatiles																
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-203	MW-203	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-208
Sample ID:		GW-38443-072409-GL-015	GW-38443-051315-GL-011	MW204	MW204	MW204	MW204	MW204	MW204	MW204	MW204	MW204	GW-38443-091008-NZ-012	GW-38443-072809-GL-018	GW-38443-051115-GL-001	MW208
Sample Date:		7/24/2009	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005	9/10/2008	7/28/2009	5/11/2015	2/18/1999
Sample Depth:		27-37 ft BGS	27-37 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	32-42 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne
Parameters	**Units**															
2,4,5-Trichlorophenol	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2,4,6-Trichlorophenol	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2,4-Dichlorophenol	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
2,4-Dimethylphenol	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
2,4-Dinitrophenol	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 UJ	5.0 U	-	-
2,4-Dinitrotoluene	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2,6-Dinitrotoluene	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2-Chloronaphthalene	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2-Chlorophenol	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2-Methylnaphthalene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
2-Methylphenol	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
2-Nitrophenol	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
3-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
4-Bromophenyl phenyl ether	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Chloro-3-methylphenol	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Chloroaniline	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Chlorophenyl phenyl ether	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Methylphenol	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
4-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Nitrophenol	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Acenaphthene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Acenaphthylene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Acetophenone	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Anthracene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Atrazine	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Benzaldehyde	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Benzo(a)anthracene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(a)pyrene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(b)fluoranthene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(g,h,i)perylene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(k)fluoranthene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
bis(2-Chloroethoxy)methane	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
bis(2-Chloroethyl)ether	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Butyl benzylphthalate (BBP)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Caprolactam	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	2.4 J	5.0 UJ	-	-
Carbazole	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Chrysene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Dibenz(a,h)anthracene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Dibenzofuran	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Diethyl phthalate	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Dimethyl phthalate	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Di-n-butylphthalate (DBP)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Fluoranthene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Fluorene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Hexachlorobenzene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Hexachlorobutadiene	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Hexachlorocyclopentadiene	ug/L	10 U	-	-	-	-	-	-	-	-	-	-	R	10 U	-	-
Hexachloroethane	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Isophorone	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-

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Sample Location:		MW-203	MW-203	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-208
Sample ID:		GW-38443-072409-GL-015	GW-38443-051315-GL-011	MW204	MW204	MW204	MW204	MW204	MW204	MW204	MW204	MW204	GW-38443-091008-NZ-012	GW-38443-072809-GL-018	GW-38443-051115-GL-001	MW208
Sample Date:		7/24/2009	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005	9/10/2008	7/28/2009	5/11/2015	2/18/1999
Sample Depth:		27-37 ft BGS	27-37 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	32-42 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne
Parameters	**Units**															
Naphthalene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Nitrobenzene	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
N-Nitrosodi-n-propylamine	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
N-Nitrosodiphenylamine	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Pentachlorophenol	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Phenanthrene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Phenol	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Pyrene	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Metals																
Aluminum	ug/L	200 U	-	-	-	-	-	-	-	-	-	-	269	200 U	-	-
Aluminum (dissolved)	ug/L	200 U	-	-	-	-	-	-	-	-	-	-	-	200 U	-	-
Antimony	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Antimony (dissolved)	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	-	2.0 U	-	-
Arsenic	ug/L	33.4[ab]	-	33[ab]	28[ab]	-	-	-	-	-	-	-	22.3[ab]	21.5[ab]	-	U
Arsenic (dissolved)	ug/L	29.1[ab]	-	-	-	-	-	-	-	-	-	-	-	20.6[ab]	-	-
Barium	ug/L	192 J	-	850[b]	700[b]	-	-	-	-	-	-	-	707[b]	720[b]	-	230
Barium (dissolved)	ug/L	195 J	-	-	-	-	-	-	-	-	-	-	-	708[b]	-	-
Beryllium	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Beryllium (dissolved)	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-
Cadmium	ug/L	1.0 U	-	U	U	-	-	-	-	-	-	-	1.0 U	1.0 U	-	U
Cadmium (dissolved)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Calcium	ug/L	123000	-	-	-	-	-	-	-	-	-	-	73100	69800	-	-
Calcium (dissolved)	ug/L	126000	-	-	-	-	-	-	-	-	-	-	-	68000	-	-
Chromium	ug/L	10.0 U	-	U	U	-	-	-	-	-	-	-	10.0 U	10.0 U	-	U
Chromium (dissolved)	ug/L	10.0 U	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-
Cobalt	ug/L	50.0 U	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	-	-
Cobalt (dissolved)	ug/L	50.0 U	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-
Copper	ug/L	25.0 U	-	-	-	-	-	-	-	-	-	-	25.0 U	25.0 U	-	-
Copper (dissolved)	ug/L	25.0 U	-	-	-	-	-	-	-	-	-	-	-	25.0 U	-	-
Iron	ug/L	3610[b]	-	-	-	-	-	-	-	-	-	-	2150[b]	2000[b]	-	-
Iron (dissolved)	ug/L	3280[b]	-	3100[b]	3100[b]	-	-	-	-	-	-	-	-	1790[b]	-	1300
Lead	ug/L	1.0 U	-	4.9	U	-	-	-	-	-	-	-	1.0 U	1.0 U	-	U
Lead (dissolved)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Magnesium	ug/L	51300	-	-	-	-	-	-	-	-	-	-	65900	65900	-	-
Magnesium (dissolved)	ug/L	52500	-	-	-	-	-	-	-	-	-	-	-	64300	-	-
Manganese	ug/L	789[b]	-	-	-	-	-	-	-	-	-	-	41.6	37.4	-	-
Manganese (dissolved)	ug/L	797[b]	-	-	-	-	-	-	-	-	-	-	-	34.2	-	-
Manganese 2+	ug/L	896	-	-	-	-	-	-	-	-	-	-	-	250 U	-	-
Mercury	ug/L	0.20 U	-	U	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Mercury (dissolved)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	-	0.20 U	-	-
Nickel	ug/L	40.0 U	-	-	-	-	-	-	-	-	-	-	40.0 U	40.0 U	-	-
Nickel (dissolved)	ug/L	40.0 U	-	-	-	-	-	-	-	-	-	-	-	40.0 U	-	-
Potassium	ug/L	12100	-	-	-	-	-	-	-	-	-	-	36300	33700	-	-
Potassium (dissolved)	ug/L	12300	-	-	-	-	-	-	-	-	-	-	-	33400 J	-	-
Selenium	ug/L	5.0 U	-	U	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Selenium (dissolved)	ug/L	5.0 U	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-
Silver	ug/L	1.0 U	-	U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Silver (dissolved)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Sodium	ug/L	110000	-	-	-	-	-	-	-	-	-	-	84100	82100	-	-
Sodium (dissolved)	ug/L	112000	-	-	-	-	-	-	-	-	-	-	-	80500	-	-
Thallium	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Thallium (dissolved)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-203	MW-203	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-208
Sample ID:		GW-38443-072409-GL-015	GW-38443-051315-GL-011	MW204	MW204	MW204	MW204	MW204	MW204	MW204	MW204	MW204	GW-38443-091008-NZ-012	GW-38443-072809-GL-018	GW-38443-051115-GL-001	MW208
Sample Date:		7/24/2009	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005	9/10/2008	7/28/2009	5/11/2015	2/18/1999
Sample Depth:		27-37 ft BGS	27-37 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	32-42 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne
Parameters	**Units**															
Vanadium	ug/L	50.0 U	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	-	-
Vanadium (dissolved)	ug/L	50.0 U	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-
Zinc	ug/L	20.0 U	-	-	-	-	-	-	-	-	-	-	20.0 U	20.0 U	-	-
Zinc (dissolved)	ug/L	20.0 U	-	-	-	-	-	-	-	-	-	-	-	20.0 U	-	-
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	-
Aroclor-1221 (PCB-1221)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	-
Aroclor-1232 (PCB-1232)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	-
Aroclor-1242 (PCB-1242)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	-
Aroclor-1248 (PCB-1248)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	-
Aroclor-1254 (PCB-1254)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	-
Aroclor-1260 (PCB-1260)	ug/L	0.20 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.19 J[b]	-	-
Pesticides																
4,4'-DDD	ug/L	0.050 UJ	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
4,4'-DDE	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
4,4'-DDT	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Aldrin	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
alpha-BHC	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
alpha-Chlordane	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
beta-BHC	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.011 J	0.050 U	-	-
delta-BHC	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Dieldrin	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endosulfan I	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endosulfan II	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endosulfan sulfate	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 UJ	-	-
Endrin	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endrin aldehyde	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endrin ketone	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
gamma-BHC (lindane)	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
gamma-Chlordane	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Heptachlor	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Heptachlor epoxide	ug/L	0.050 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Methoxychlor	ug/L	0.10 U	-	-	-	-	-	-	-	-	-	-	0.10 U	0.10 U	-	-
Toxaphene	ug/L	2.0 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Gases																
Ethane	ug/L	0.50 U	-	16	21	-	-	-	-	-	-	-	-	9.2	-	2
Ethene	ug/L	0.50 U	-	U	U	-	-	-	-	-	-	-	-	0.50 U	-	U
Methane	ug/L	44	-	5700 D/37 E	540 E/2200 D	-	-	-	-	-	-	-	-	510	-	59
Herbicides																
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	4.0 U	-	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-
Petroleum Products																
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																
Alkalinity, total (as CaCO3)	ug/L	501000	-	800000	470000	-	-	-	-	-	-	-	-	512000	-	500000
Ammonia-N	ug/L	-	-	5400	4400	-	-	-	-	-	-	-	-	-	-	300
Chloride	ug/L	192000	-	56200	59200	-	-	-	-	-	-	-	-	98100	-	111000
Cyanide (total)	ug/L	10 U	-	-	-	-	-	-	-	-	-	-	-	10 U	-	-
Dissolved organic carbon (DOC)	ug/L	3000	-	-	-	-	-	-	-	-	-	-	-	9000	-	-

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Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-203**	**MW-203**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-204**	**MW-208**
Sample ID:		**GW-38443-072409-GL-015**	**GW-38443-051315-GL-011**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**MW204**	**GW-38443-091008-NZ-012**	**GW-38443-072809-GL-018**	**GW-38443-051115-GL-001**	**MW208**
Sample Date:		**7/24/2009**	**5/13/2015**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/10/2008**	**7/28/2009**	**5/11/2015**	**2/18/1999**
Sample Depth:		**27-37 ft BGS**	**27-37 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**32-42 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**
Parameters	**Units**															
Hardness	ug/L	519000	-	-	-	-	-	-	-	-	-	-	-	445000	-	-
Nitrate (as N)	ug/L	100 U	-	U	U	-	-	-	-	-	-	-	-	100 U	-	300
Nitrite (as N)	ug/L	100 U	-	-	-	-	-	-	-	-	-	-	-	100 U	-	-
Sulfate	ug/L	49800	-	1300	1500	-	-	-	-	-	-	-	-	20800	-	59600
Sulfide (acid soluble)	ug/L	3000 U	-	-	-	-	-	-	-	-	-	-	-	3000 U	-	-
Total organic carbon (TOC)	ug/L	-	-	8000	9000	-	-	-	-	-	-	-	-	-	-	3000

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

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Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209
Sample ID:		MW208	MW208	MW208	MW208	MW208	MW208	MW208	GW-38443-090508-GL-005	GW-38443-100417-SCT-006	MW209	MW209	MW209	MW209	MW209	MW209	MW209	MW209
Sample Date:		11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/3/2005	9/5/2008	10/4/2017	2/22/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005
Sample Depth:		32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																	
Volatiles																		
1,1,1-Trichloroethane	ug/L	U	U	U	U	U	U	U	1.0 U	0.23 U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	ug/L	U	U	U	U	U	U	U	1.0 U	0.32 U	U	U	U	U	U	U	U	U
1,1,2-Trichloroethane	ug/L	-	-	-	-	-	-	-	1.0 U	0.34 U	-	-	-	-	-	-	-	-
1,1-Dichloroethane	ug/L	U	U	U	U	U	U	U	1.0 U	0.25 U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	1.0 U	0.27 U	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	1.0 U	0.27 U	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-	2.0 U	0.0084 U	-	-	-	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ug/L	-	-	-	-	-	-	-	1.0 U	0.0071 U	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	1.0 U	0.26 U	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	U	U	U	U	U	U	U	1.0 U	0.30 U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	ug/L	U	U	U	U	U	U	U	-	-	U	U	U	U	U	U	U	U
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	1.0 U	0.30 U	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	1.0 U	0.32 U	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	1.0 U	0.23 U	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-	10 U	1.0 U	-	-	-	-	-	-	-	-
2-Hexanone	ug/L	-	-	-	-	-	-	-	10 U	1.2 U	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-	10 U	0.71 U	-	-	-	-	-	-	-	-
Acetone	ug/L	U	U	U	U	U	U	U	10 U	2.6 J	U	U	U	U	U	U	U	U
Benzene	ug/L	U	U	U	U	U	U	U	1.0 U	0.28 U	U	U	U	U	U	U	U	U
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	1.0 U	0.30 U	-	-	-	-	-	-	-	-
Bromoform	ug/L	U	U	U	U	U	U	U	1.0 U	0.43 U	U	U	U	U	U	U	U	U
Bromomethane (Methyl bromide)	ug/L	-	-	-	-	-	-	-	1.0 U	0.42 U	-	-	-	-	-	-	-	-
Carbon disulfide	ug/L	-	-	-	-	-	-	-	1.0 U	0.34 U	-	-	-	-	-	-	-	-
Carbon tetrachloride	ug/L	-	-	-	-	-	-	-	1.0 U	0.35 U	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	U	U	U	U	U	U	U	1.0 U	0.32 U	U	U	U	U	U	U	U	U
Chloroethane	ug/L	U	U	U	U	U	U	U	1.0 U	0.41 U	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	0.23 J[b]	0.31 U	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	1.0 U	0.43 U	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	0.76 J	0.67 J	-	-	-	-	-	-	-	-
cis-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	1.0 U	0.26 U	-	-	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	-	-	1.0 U	0.44 U	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	1.0 U	0.25 U	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-	1.0 U	0.50 U	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-	1.0 U	0.26 U	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	-	-	1.0 U	0.21 U	-	-	-	-	-	-	-	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	0.24 U	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	-	-	10 U	1.4 U	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-	1.0 U	0.45 U	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-	5.0 U	0.27 U	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	U	U	U	U	U	U	U	1.0 U	0.53 U	8 B[a]	51 B[ab]	U	U	U	U	U	U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	0.28 U	-	-	-	-	-	-	-	-
Styrene	ug/L	U	U	U	U	U	U	U	1.0 U	0.23 U	U	U	U	U	U	U	U	U
Tetrachloroethene	ug/L	U	U	U	U	U	U	U	1.0 U	0.30 U	U	U	U	U	U	U	U	U
Toluene	ug/L	U	U	U	U	U	U	U	1.0 U	0.23 U	7	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	1.0 U	0.29 U	-	-	-	-	-	-	-	-
trans-1,3-Dichloropropene	ug/L	-	-	-	-	-	-	-	1.0 U	0.31 U	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	U	U	U	U	U	U	U	1.0[b]	1.4[b]	U	U	U	U	U	U	U	U
Trichlorofluoromethane (CFC-11)	ug/L	-	-	-	-	-	-	-	1.0 U	0.50 U	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	ug/L	-	-	-	-	-	-	-	1.0 U	0.41 U	-	-	-	-	-	-	-	-
Vinyl chloride	ug/L	U	U	U	U	U	U	U	1.0 U	0.45 U	U	U	U	U	U	U	U	U
Xylenes (total)	ug/L	U	U	U	U	U	U	U	2.0 U	0.24 U	U	U	U	U	U	U	U	U
Semi-Volatiles																		
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	1.0 U	0.39 U	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209
Sample ID:		MW208	MW208	MW208	MW208	MW208	MW208	MW208	GW-38443-090508-GL-005	GW-38443-100417-SCT-006	MW209	MW209	MW209	MW209	MW209	MW209	MW209	MW209
Sample Date:		11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/3/2005	9/5/2008	10/4/2017	2/22/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005
Sample Depth:		32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																	
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	5.0 U	0.29 U	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	5.0 U	0.23 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	2.0 U	0.18 U	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	2.0 U	0.24 U	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	5.0 U	0.31 U	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	5.0 U	0.24 U	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	5.0 U	0.78 U	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	1.0 U	0.097 U	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	1.0 U	0.28 U	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	0.20 U	0.088 U	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	1.0 U	0.17 U	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	2.0 U	0.20 U	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	2.0 U	0.27 U	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	0.78 U	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	5.0 U	0.36 U	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	2.0 U	0.27 U	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	5.0 U	2.3 U	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	2.0 U	0.21 U	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	2.0 U	0.20 U	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	2.0 U	0.20 U	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	2.0 U	0.29 U	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	2.0 U	0.21 U	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	5.0 U	0.28 U	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	0.20 U	0.043 U	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	0.20 U	0.047 U	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	1.0 U	0.33 U	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	0.20 U	0.085 U	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	1.0 U	0.33 U	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	1.0 U	0.38 U	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	0.20 U	0.029 U	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	0.20 U	0.050 U	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	0.20 U	0.038 U	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	0.20 U	0.045 U	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	0.20 U	0.043 U	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	1.0 U	0.13 U	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	1.0 U	0.31 U	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	1.0 U	0.097 U	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	2.4 U	1.7 U	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	1.0 U	0.25 U	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	5.0 U	0.19 U	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	1.0 U	0.27 U	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	0.20 U	0.049 U	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	0.20 U	0.043 U	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	1.0 U	0.019 U	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	1.0 U	0.58 U	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	1.0 U	0.28 U	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	1.2 U	1.7 U	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	1.0 U	0.22 U	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	0.20 U	0.043 U	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	0.20 U	0.039 U	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	0.20 U	0.083 U	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	1.0 U	0.26 U	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	10 U	0.23 UJ	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	1.0 U	0.18 U	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	0.20 U	0.042 U	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	1.0 U	0.26 U	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209
Sample ID:		MW208	MW208	MW208	MW208	MW208	MW208	MW208	GW-38443-090508-GL-005	GW-38443-100417-SCT-006	MW209	MW209	MW209	MW209	MW209	MW209	MW209	MW209
Sample Date:		11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/3/2005	9/5/2008	10/4/2017	2/22/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005
Sample Depth:		32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																	
Naphthalene	ug/L	-	-	-	-	-	-	-	0.20 U	0.061 U	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	1.0 U	0.039 U	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	1.0 U	0.23 U	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	1.0 U	0.30 U	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	5.0 U	0.26 U	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	0.20 U	0.060 U	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	1.0 U	0.58 U	-	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-	0.20 U	0.041 U	-	-	-	-	-	-	-	-
Metals																		
Aluminum	ug/L	-	-	-	-	-	-	-	361 J	85	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	43 J	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	2.0 U	0.57 U	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.57 U	-	-	-	-	-	-	-	-
Arsenic	ug/L	-	-	-	-	-	-	-	**0.92 J[b]**	0.75 U	**32[ab]**	-	-	-	-	-	-	-
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.75 U	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	146 J	140	**630[b]**	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	130	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	5.0 U	0.32 J	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.31 U	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	1.0 U	0.21 U	U	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.21 U	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	127000	130000	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	130000	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	10.0 U	0.98 U	65	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.98 U	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	**4.4 J[b]**	**2.4[b]**	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	**1.7[b]**	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	25.0 U	1.7 U	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	1.7 U	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	585	200	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	47 U	**3000[b]**	-	-	-	-	-	-	-
Lead	ug/L	-	-	-	-	-	-	-	0.57 J	0.45 U	**100[ab]**	-	-	-	-	-	-	-
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.45 U	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	41800	46000	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	45000	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	**639[b]**	**710[b]**	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	**560[b]**	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	0.20 U	0.13 U	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.13 U	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	3.9 J	1.5 U	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	1.5 U	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	11000	8000	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	9200	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	**19.6[b]**	**16[b]**	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	**16[b]**	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	1.0 U	0.065 U	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.053 U	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	126000	110000	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	110000	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	1.0 U	**0.90 J[b]**	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	**0.21 J[b]**	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209
Sample ID:		MW208	MW208	MW208	MW208	MW208	MW208	MW208	GW-38443-090508-GL-005	GW-38443-100417-SCT-006	MW209	MW209	MW209	MW209	MW209	MW209	MW209	MW209
Sample Date:		11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/3/2005	9/5/2008	10/4/2017	2/22/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005
Sample Depth:		32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																	
Vanadium	ug/L	-	-	-	-	-	-	-	50.0 U	0.82 U	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	0.82 U	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	20.0 U	15 U	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	15 U	-	-	-	-	-	-	-	-
PCBs																		
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	0.20 U	0.048 U	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	0.20 U	0.087 U	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	0.20 U	0.067 U	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	0.20 U	0.058 U	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	0.20 U	0.048 U	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	0.20 U	0.029 U	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	0.20 U	0.038 U	-	-	-	-	-	-	-	-
Pesticides																		
4,4'-DDD	ug/L	-	-	-	-	-	-	-	0.050 UJ	0.018 U	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	0.050 U	0.012 U	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	0.050 UJ	0.017 U	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	0.050 U	0.013 U	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	0.050 U	0.014 U	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	0.050 U	0.012 U	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	0.050 U	0.018 U	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	0.050 U	0.029 U	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	0.050 U	0.013 U	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	0.050 U	0.016 U	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	0.050 U	0.015 U	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	0.050 U	0.015 U	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	0.050 U	0.013 U	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	0.050 U	0.018 U	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	0.050 U	0.016 U	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	0.050 U	0.013 U	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	0.050 U	0.013 U	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	0.050 U	0.014 U	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	0.050 U	0.015 U	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	0.10 UJ	0.013 U	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	2.0 U	0.19 U	-	-	-	-	-	-	-	-
Gases																		
Ethane	ug/L	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	U	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	280 E/590 D	-	-	-	-	-	-	-
Herbicides																		
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	0.24 U	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	1.0 U	0.20 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	4.0 U	1.1 U	-	-	-	-	-	-	-	-
Petroleum Products																		
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry																		
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	340000	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	1000	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	180000	39100	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	86[b]	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209	MW-209
Sample ID:		MW208	MW208	MW208	MW208	MW208	MW208	MW208	GW-38443-090508-GL-005	GW-38443-100417-SCT-006	MW209	MW209	MW209	MW209	MW209	MW209	MW209	MW209
Sample Date:		11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/3/2005	9/5/2008	10/4/2017	2/22/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005
Sample Depth:		32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																	
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	6100[b]	U	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	78 J	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	79000	78000	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	4000	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-209	MW-209	MW-209	MW-209	MW-209	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210
Sample ID:		GW-38443-091108-NZ-013	GW-38443-072109-GL-003	GW-38443-051215-GL-008	GW-38443-101718-AS-218	GW-38443-101718-AS-219	MW210	MW210	MW210	MW210	MW210	MW210	MW210	MW210	GW-38443-090408-GL-002
Sample Date:		9/11/2008	7/21/2009	5/12/2015	10/17/2018	10/17/2018	2/18/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/4/2008
Sample Depth:		18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.24 U	0.24 U	U	U	U	U	U	U	U	U	9.1 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 U	0.13 U	0.13 U	U	U	U	U	U	U	U	U	9.1 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	-	-	-	-	-	-	-	-	9.1 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.17 U	0.17 U	U	U	U	U	U	U	U	U	9.1 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	-	-	-	-	-	-	-	-	9.1 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 UJ	1.0 U	0.26 U	0.26 U	-	-	-	-	-	-	-	-	9.1 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	0.0086 U	0.0086 U	-	-	-	-	-	-	-	-	18 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	0.0087 U	0.0087 U	-	-	-	-	-	-	-	-	9.1 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	-	-	-	-	-	-	-	-	9.1 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	U	U	U	U	U	U	U	U	9.1 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	16	45	14	U	13	41	45	33	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	-	-	-	-	-	-	-	-	9.1 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	-	-	-	-	-	-	-	-	9.1 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	-	-	-	-	-	-	-	-	9.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	1.2 U	1.2 U	-	-	-	-	-	-	-	-	91 U
2-Hexanone	ug/L	10 U	10 U	10 U	0.54 U	0.54 U	-	-	-	-	-	-	-	-	91 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	0.42 U	0.42 U	-	-	-	-	-	-	-	-	91 U
Acetone	ug/L	10 U	10 U	10 U	5.4 U	5.4 U	U	U	U	U	U	U	U	U	91 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	U	U	U	U	U	U	U	U	9.1 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	0.17 U	0.17 U	-	-	-	-	-	-	-	-	9.1 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	0.76 U	0.76 U	U	U	U	U	U	U	U	U	9.1 UJ
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 UJ	0.42 U	0.42 U	-	-	-	-	-	-	-	-	9.1 U
Carbon disulfide	ug/L	1.0 U	1.0 UJ	1.0 U	0.28 U	0.28 U	-	-	-	-	-	-	-	-	9.1 UJ
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	-	-	-	-	-	-	-	-	9.1 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	0.14 U	0.14 U	U	U	U	U	U	U	U	U	9.1 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.83 U	0.83 U	U	U	U	U	U	U	U	U	9.1 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	-	-	-	-	-	-	-	-	9.1 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	-	-	-	-	-	-	-	-	9.1 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	-	-	-	-	-	-	-	-	38[b]
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 UJ	1.0 U	0.61 U	0.61 U	-	-	-	-	-	-	-	-	9.1 UJ
Cyclohexane	ug/L	1.0 U	1.0 UJ	1.0 U	0.24 U	0.24 U	-	-	-	-	-	-	-	-	9.1 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	0.39 U	0.39 U	-	-	-	-	-	-	-	-	9.1 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 UJ	1.0 U	0.35 U	0.35 U	-	-	-	-	-	-	-	-	9.1 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	0.11 U	0.11 U	-	-	-	-	-	-	-	-	9.1 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	-	-	-	-	-	-	-	-	9.1 U
m&p-Xylenes	ug/L	-	-	-	0.080 U	0.080 U	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	1.7 U	1.7 U	-	-	-	-	-	-	-	-	91 U
Methyl cyclohexane	ug/L	1.0 U	1.0 UJ	1.0 U	0.33 U	0.33 U	-	-	-	-	-	-	-	-	9.1 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	1.0 U	0.070 U	0.070 U	-	-	-	-	-	-	-	-	45 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	2.6 U	2.6 U	0.7 J	14 B[ab]	U	U	U	U	U	U	9.1 U
o-Xylene	ug/L	-	-	-	0.090 U	0.090 U	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 UJ	1.0 U	1.0 U	0.10 U	0.10 U	U	U	U	U	U	U	U	U	9.1 UJ
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	U	U	U	U	U	U	U	U	9.1 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	0.14 U	0.14 U	1.7 J	U	U	U	U	U	U	U	9.1 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	-	-	-	-	-	-	-	-	2.0 J
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 UJ	1.0 U	0.67 U	0.67 U	-	-	-	-	-	-	-	-	9.1 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	3.7 U	0.10 U	87[ab]	260[ab]	58[ab]	30[ab]	76[ab]	170[ab]	250[ab]	190[ab]	260[ab]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U	-	-	-	-	-	-	-	-	9.1 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	0.41 U	0.41 U	-	-	-	-	-	-	-	-	9.1 U
Vinyl chloride	ug/L	0.31 J[b]	0.66 J[b]	1.0[b]	0.20 U	0.20 U	U	U	U	U	U	U	U	U	9.1 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	0.15 U	0.15 U	U	U	U	U	U	U	U	U	18 U
Semi-Volatiles															
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	1.0 U	-	0.55 U	0.52 U	-	-	-	-	-	-	-	-	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-209	MW-209	MW-209	MW-209	MW-209	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210
Sample ID:		GW-38443-091108-NZ-013	GW-38443-072109-GL-003	GW-38443-051215-GL-008	GW-38443-101718-AS-218	GW-38443-101718-AS-219	MW210	MW210	MW210	MW210	MW210	MW210	MW210	MW210	GW-38443-090408-GL-002
Sample Date:		9/11/2008	7/21/2009	5/12/2015	10/17/2018	10/17/2018	2/18/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/4/2008
Sample Depth:		18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**														
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	-	2.0 U	1.9 U	-	-	-	-	-	-	-	-	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	-	1.8 U	1.7 U	-	-	-	-	-	-	-	-	5.0 U
2,4-Dichlorophenol	ug/L	2.0 U	2.0 U	-	0.26 U	0.25 U	-	-	-	-	-	-	-	-	2.0 U
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	-	0.52 U	0.49 U	-	-	-	-	-	-	-	-	2.0 U
2,4-Dinitrophenol	ug/L	5.0 UJ	5.0 U	-	6.2 U	5.9 U	-	-	-	-	-	-	-	-	5.0 U
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	-	2.1 U	2.0 U	-	-	-	-	-	-	-	-	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	-	2.1 U	2.0 U	-	-	-	-	-	-	-	-	5.0 U
2-Chloronaphthalene	ug/L	1.0 U	1.0 U	-	0.48 U	0.46 U	-	-	-	-	-	-	-	-	1.0 U
2-Chlorophenol	ug/L	1.0 U	1.0 U	-	0.27 U	0.26 U	-	-	-	-	-	-	-	-	1.0 U
2-Methylnaphthalene	ug/L	0.20 U	0.20 U	-	0.11 U	0.11 U	-	-	-	-	-	-	-	-	0.20 U
2-Methylphenol	ug/L	1.0 U	1.0 U	-	0.21 U	0.20 U	-	-	-	-	-	-	-	-	1.0 U
2-Nitroaniline	ug/L	2.0 U	2.0 U	-	0.51 U	0.49 U	-	-	-	-	-	-	-	-	2.0 U
2-Nitrophenol	ug/L	2.0 U	2.0 U	-	0.56 U	0.54 U	-	-	-	-	-	-	-	-	2.0 U
3&4-Methylphenol	ug/L	-	-	-	0.19 U	0.18 U	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	5.0 U	-	1.2 U	1.1 U	-	-	-	-	-	-	-	-	5.0 U
3-Nitroaniline	ug/L	2.0 U	2.0 U	-	0.57 U	0.54 U	-	-	-	-	-	-	-	-	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	-	2.8 U	2.7 U	-	-	-	-	-	-	-	-	5.0 U
4-Bromophenyl phenyl ether	ug/L	2.0 U	2.0 U	-	0.50 U	0.48 U	-	-	-	-	-	-	-	-	2.0 U
4-Chloro-3-methylphenol	ug/L	2.0 U	2.0 U	-	0.30 U	0.28 U	-	-	-	-	-	-	-	-	2.0 U
4-Chloroaniline	ug/L	2.0 U	2.0 U	-	0.32 U	0.30 U	-	-	-	-	-	-	-	-	2.0 U
4-Chlorophenyl phenyl ether	ug/L	2.0 U	2.0 U	-	0.55 U	0.52 U	-	-	-	-	-	-	-	-	2.0 U
4-Methylphenol	ug/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U
4-Nitroaniline	ug/L	2.0 U	2.0 U	-	0.92 U	0.87 U	-	-	-	-	-	-	-	-	2.0 U
4-Nitrophenol	ug/L	5.0 U	5.0 U	-	2.2 U	2.1 U	-	-	-	-	-	-	-	-	5.0 U
Acenaphthene	ug/L	0.20 U	0.20 U	-	0.17 U	0.16 U	-	-	-	-	-	-	-	-	0.20 U
Acenaphthylene	ug/L	0.20 U	0.20 U	-	0.13 U	0.12 U	-	-	-	-	-	-	-	-	0.20 U
Acetophenone	ug/L	1.0 U	1.0 U	-	0.37 U	0.35 U	-	-	-	-	-	-	-	-	1.0 U
Anthracene	ug/L	0.20 U	0.20 U	-	0.14 U	0.13 U	-	-	-	-	-	-	-	-	0.20 U
Atrazine	ug/L	1.0 U	1.0 U	-	0.95 U	0.91 U	-	-	-	-	-	-	-	-	1.0 U
Benzaldehyde	ug/L	1.0 U	1.0 U	-	0.76 U	0.72 U	-	-	-	-	-	-	-	-	1.0 U
Benzo(a)anthracene	ug/L	0.20 U	0.20 U	-	0.17 U	0.16 U	-	-	-	-	-	-	-	-	0.20 U
Benzo(a)pyrene	ug/L	0.20 U	0.20 U	-	0.17 U	0.16 U	-	-	-	-	-	-	-	-	0.20 U
Benzo(b)fluoranthene	ug/L	0.20 U	0.20 U	-	0.15 U	0.15 U	-	-	-	-	-	-	-	-	0.20 U
Benzo(g,h,i)perylene	ug/L	0.20 U	0.20 U	-	0.18 U	0.17 U	-	-	-	-	-	-	-	-	0.20 U
Benzo(k)fluoranthene	ug/L	0.20 U	0.20 U	-	0.14 U	0.13 U	-	-	-	-	-	-	-	-	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	1.0 U	-	0.49 U	0.47 U	-	-	-	-	-	-	-	-	1.0 U
bis(2-Chloroethoxy)methane	ug/L	1.0 U	1.0 U	-	0.46 U	0.43 U	-	-	-	-	-	-	-	-	1.0 U
bis(2-Chloroethyl)ether	ug/L	1.0 U	1.0 U	-	0.40 U	0.38 U	-	-	-	-	-	-	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.8 U	2.0 U	-	2.2 U	2.1 U	-	-	-	-	-	-	-	-	2.4 U
Butyl benzylphthalate (BBP)	ug/L	1.0 U	1.0 U	-	0.67 U	0.63 U	-	-	-	-	-	-	-	-	1.0 U
Caprolactam	ug/L	3.7 J	5.0 U	-	0.93 U	0.89 U	-	-	-	-	-	-	-	-	8.7
Carbazole	ug/L	1.0 U	1.0 U	-	0.49 U	0.47 U	-	-	-	-	-	-	-	-	1.0 U
Chrysene	ug/L	0.20 U	0.20 U	-	0.19 U	0.18 U	-	-	-	-	-	-	-	-	0.20 U
Dibenz(a,h)anthracene	ug/L	0.20 U	0.20 U	-	0.15 U	0.14 U	-	-	-	-	-	-	-	-	0.20 U
Dibenzofuran	ug/L	1.0 U	1.0 U	-	0.56 U	0.53 U	-	-	-	-	-	-	-	-	1.0 U
Diethyl phthalate	ug/L	1.0 U	1.0 U	-	3.8 U	3.6 U	-	-	-	-	-	-	-	-	1.0 U
Dimethyl phthalate	ug/L	1.0 U	1.0 U	-	0.52 U	0.49 U	-	-	-	-	-	-	-	-	1.0 U
Di-n-butylphthalate (DBP)	ug/L	1.0 U	1.0 U	-	1.8 U	1.7 U	-	-	-	-	-	-	-	-	1.2 U
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	1.0 U	-	0.82 U	0.78 U	-	-	-	-	-	-	-	-	1.0 U
Fluoranthene	ug/L	0.20 U	0.20 U	-	0.16 U	0.15 U	-	-	-	-	-	-	-	-	0.20 U
Fluorene	ug/L	0.20 U	0.20 U	-	0.17 U	0.16 U	-	-	-	-	-	-	-	-	0.20 U
Hexachlorobenzene	ug/L	0.20 U	0.20 U	-	0.16 U	0.15 U	-	-	-	-	-	-	-	-	0.20 U
Hexachlorobutadiene	ug/L	1.0 U	1.0 U	-	0.54 U	0.52 U	-	-	-	-	-	-	-	-	1.0 U
Hexachlorocyclopentadiene	ug/L	R	10 U	-	1.8 U	1.7 U	-	-	-	-	-	-	-	-	10 U
Hexachloroethane	ug/L	1.0 U	1.0 U	-	0.40 U	0.38 U	-	-	-	-	-	-	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	0.20 U	-	0.14 U	0.13 U	-	-	-	-	-	-	-	-	0.20 U
Isophorone	ug/L	1.0 U	1.0 U	-	0.32 U	0.31 U	-	-	-	-	-	-	-	-	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-209	MW-209	MW-209	MW-209	MW-209	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210	MW-210
Sample ID:		GW-38443-091108-NZ-013	GW-38443-072109-GL-003	GW-38443-051215-GL-008	GW-38443-101718-AS-218	GW-38443-101718-AS-219	MW210	MW210	MW210	MW210	MW210	MW210	MW210	MW210	GW-38443-090408-GL-002
Sample Date:		9/11/2008	7/21/2009	5/12/2015	10/17/2018	10/17/2018	2/18/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/4/2008
Sample Depth:		18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	18-26 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**														
Naphthalene	ug/L	0.20 U	0.20 U	-	0.11 U	0.10 U	-	-	-	-	-	-	-	-	0.20 U
Nitrobenzene	ug/L	1.0 U	1.0 U	-	0.51 U	0.49 U	-	-	-	-	-	-	-	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	1.0 U	1.0 U	-	0.25 U	0.24 U	-	-	-	-	-	-	-	-	1.0 U
N-Nitrosodiphenylamine	ug/L	1.0 U	1.0 U	-	0.44 U	0.42 U	-	-	-	-	-	-	-	-	1.0 U
Pentachlorophenol	ug/L	5.0 U	5.0 U	-	3.1 U	3.0 U	-	-	-	-	-	-	-	-	5.0 U
Phenanthrene	ug/L	0.20 U	0.20 U	-	0.17 U	0.16 U	-	-	-	-	-	-	-	-	0.20 U
Phenol	ug/L	1.0 U	1.0 U	-	0.13 U	0.12 U	-	-	-	-	-	-	-	-	1.0 U
Pyrene	ug/L	0.20 U	0.20 U	-	0.18 U	0.17 U	-	-	-	-	-	-	-	-	0.20 U
Metals															
Aluminum	ug/L	162 J	152 J	-	820 J	320 J	-	-	-	-	-	-	-	-	138 J
Aluminum (dissolved)	ug/L	-	200 U	-	72	72	-	-	-	-	-	-	-	-	-
Antimony	ug/L	2.0 U	2.0 U	-	0.57 U	0.57 U	-	-	-	-	-	-	-	-	2.0 U
Antimony (dissolved)	ug/L	-	2.0 U	-	0.57 U	0.57 U	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	4.2 J[b]	4.4 J[b]	-	3.2 J[b]	2.6 J[b]	U	-	-	-	-	-	-	-	0.56 J[b]
Arsenic (dissolved)	ug/L	-	4.0 J[b]	-	2.7 J[b]	2.5 J[b]	-	-	-	-	-	-	-	-	-
Barium	ug/L	163 J	136 J	-	290	280	U	-	-	-	-	-	-	-	125 J
Barium (dissolved)	ug/L	-	134 J	-	290	270	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	5.0 U	5.0 U	-	0.31 U	0.31 U	-	-	-	-	-	-	-	-	5.0 U
Beryllium (dissolved)	ug/L	-	5.0 U	-	0.31 U	0.31 U	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	1.0 U	1.0 U	-	0.21 U	0.21 U	U	-	-	-	-	-	-	-	1.0 U
Cadmium (dissolved)	ug/L	-	1.0 U	-	0.21 U	0.21 U	-	-	-	-	-	-	-	-	-
Calcium	ug/L	77000	69500	-	49000	46000	-	-	-	-	-	-	-	-	100000
Calcium (dissolved)	ug/L	-	68800	-	48000	48000	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10.0 U	10.0 U	-	1.3 J	0.98 U	34	-	-	-	-	-	-	-	10.0 U
Chromium (dissolved)	ug/L	-	10.0 U	-	0.98 U	0.98 U	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	50.0 U	50.0 U	-	0.89 J[b]	0.69 J[b]	-	-	-	-	-	-	-	-	50.0 U
Cobalt (dissolved)	ug/L	-	50.0 U	-	0.64 J[b]	0.64 J[b]	-	-	-	-	-	-	-	-	-
Copper	ug/L	25.0 U	25.0 U	-	1.8 J	1.7 U	-	-	-	-	-	-	-	-	25.0 U
Copper (dissolved)	ug/L	-	25.0 U	-	1.7 U	1.7 U	-	-	-	-	-	-	-	-	-
Iron	ug/L	1760[b]	1810[b]	-	2000[b]	1200	-	-	-	-	-	-	-	-	100 U
Iron (dissolved)	ug/L	-	1360	-	1000	1000	2700[b]	-	-	-	-	-	-	-	-
Lead	ug/L	0.40 J	0.44 J	-	1.3	0.62 J	U	-	-	-	-	-	-	-	1.0 U
Lead (dissolved)	ug/L	-	1.0 U	-	0.45 U	0.45 U	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	32400	28500	-	20000	18000	-	-	-	-	-	-	-	-	43500
Magnesium (dissolved)	ug/L	-	28500	-	19000	19000	-	-	-	-	-	-	-	-	-
Manganese	ug/L	213[b]	179[b]	-	220[b]	210[b]	-	-	-	-	-	-	-	-	635[b]
Manganese (dissolved)	ug/L	-	175[b]	-	220[b]	220[b]	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	260	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.20 U	0.20 U	-	0.13 U	0.13 U	-	-	-	-	-	-	-	-	0.20 U
Mercury (dissolved)	ug/L	-	0.20 U	-	0.13 U	0.13 U	-	-	-	-	-	-	-	-	-
Nickel	ug/L	40.0 U	40.0 U	-	3.2	2.6	-	-	-	-	-	-	-	-	40.0 U
Nickel (dissolved)	ug/L	-	40.0 U	-	2.2	2.2	-	-	-	-	-	-	-	-	-
Potassium	ug/L	9990	7680	-	7200	6800	-	-	-	-	-	-	-	-	7840
Potassium (dissolved)	ug/L	-	7780	-	7200	6800	-	-	-	-	-	-	-	-	-
Selenium	ug/L	5.0 U	5.0 U	-	0.89 U	0.89 U	-	-	-	-	-	-	-	-	5.0 U
Selenium (dissolved)	ug/L	-	5.0 U	-	0.89 U	0.89 U	-	-	-	-	-	-	-	-	-
Silver	ug/L	1.0 U	1.0 U	-	0.51 J	0.20 J	-	-	-	-	-	-	-	-	1.0 U
Silver (dissolved)	ug/L	-	1.0 U	-	0.064 J	0.072 J	-	-	-	-	-	-	-	-	-
Sodium	ug/L	40600	43100	-	66000	64000	-	-	-	-	-	-	-	-	85900
Sodium (dissolved)	ug/L	-	43800	-	69000	67000	-	-	-	-	-	-	-	-	-
Thallium	ug/L	1.0 U	1.0 U	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	1.0 U
Thallium (dissolved)	ug/L	-	1.0 U	-	0.20 U	0.20 U	-	-	-	-	-	-	-	-	-

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Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**
Sample ID:		**GW-38443-091108-NZ-013**	**GW-38443-072109-GL-003**	**GW-38443-051215-GL-008**	**GW-38443-101718-AS-218**	**GW-38443-101718-AS-219**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**GW-38443-090408-GL-002**
Sample Date:		**9/11/2008**	**7/21/2009**	**5/12/2015**	**10/17/2018**	**10/17/2018**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/15/2004**	**8/4/2005**	**9/4/2008**
Sample Depth:		**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**
Parameters	**Units**														
Vanadium	ug/L	50.0 U	50.0 U	-	1.8 J	0.82 U	-	-	-	-	-	-	-	-	50.0 U
Vanadium (dissolved)	ug/L	-	50.0 U	-	0.82 U	0.82 U	-	-	-	-	-	-	-	-	-
Zinc	ug/L	20.0 U	20.0 U	-	15 U	15 U	-	-	-	-	-	-	-	-	20.0 U
Zinc (dissolved)	ug/L	-	20.0 U	-	15 U	15 U	-	-	-	-	-	-	-	-	-
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	0.20 UJ	0.20 U	-	0.054 U	0.054 U	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	0.20 UJ	0.20 U	-	0.055 U	0.055 U	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1232 (PCB-1232)	ug/L	0.20 UJ	0.20 U	-	0.071 U	0.072 U	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	0.20 UJ	0.20 U	-	0.073 U	0.074 U	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1248 (PCB-1248)	ug/L	0.20 UJ	0.20 U	-	0.048 U	0.049 U	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	0.20 UJ	0.20 U	-	0.038 U	0.039 U	-	-	-	-	-	-	-	-	0.20 U
Aroclor-1260 (PCB-1260)	ug/L	0.20 UJ	0.20 U	-	0.044 U	0.045 U	-	-	-	-	-	-	-	-	0.20 U
Pesticides															
4,4'-DDD	ug/L	0.050 U	0.050 U	-	0.0051 U	0.0051 U	-	-	-	-	-	-	-	-	0.050 UJ
4,4'-DDE	ug/L	0.050 U	0.050 U	-	0.0041 U	0.0042 U	-	-	-	-	-	-	-	-	0.050 U
4,4'-DDT	ug/L	0.050 U	0.050 U	-	0.0046 U	0.0047 U	-	-	-	-	-	-	-	-	0.050 UJ
Aldrin	ug/L	0.050 U	0.050 U	-	0.0023 U	0.0023 U	-	-	-	-	-	-	-	-	0.050 U
alpha-BHC	ug/L	0.050 U	0.050 U	-	0.0019 U	0.0019 U	-	-	-	-	-	-	-	-	0.050 U
alpha-Chlordane	ug/L	0.050 U	0.050 U	-	0.0031 U	0.0031 U	-	-	-	-	-	-	-	-	0.050 U
beta-BHC	ug/L	0.050 U	0.050 U	-	0.0044 U	0.0045 U	-	-	-	-	-	-	-	-	0.050 U
delta-BHC	ug/L	0.050 U	0.050 U	-	0.0041 U	0.0042 U	-	-	-	-	-	-	-	-	0.050 U
Dieldrin	ug/L	0.050 U	0.050 U	-	0.0022 U	0.0022 U	-	-	-	-	-	-	-	-	0.050 U
Endosulfan I	ug/L	0.050 U	0.050 U	-	0.0036 U	0.0036 U	-	-	-	-	-	-	-	-	0.050 U
Endosulfan II	ug/L	0.050 U	0.050 U	-	0.0022 U	0.0022 U	-	-	-	-	-	-	-	-	0.050 U
Endosulfan sulfate	ug/L	0.050 U	0.050 U	-	0.0036 U	0.0036 U	-	-	-	-	-	-	-	-	0.050 U
Endrin	ug/L	0.050 U	0.050 U	-	0.0024 U	0.0024 U	-	-	-	-	-	-	-	-	0.050 U
Endrin aldehyde	ug/L	0.050 U	0.050 U	-	0.0044 U	0.0045 U	-	-	-	-	-	-	-	-	0.050 U
Endrin ketone	ug/L	0.050 U	0.050 U	-	0.0038 U	0.0039 U	-	-	-	-	-	-	-	-	0.050 U
gamma-BHC (lindane)	ug/L	0.050 U	0.050 U	-	0.0024 U	0.0024 U	-	-	-	-	-	-	-	-	0.050 U
gamma-Chlordane	ug/L	0.050 U	0.050 U	-	0.0048 U	0.0049 U	-	-	-	-	-	-	-	-	0.050 U
Heptachlor	ug/L	0.050 U	0.050 U	-	0.0032 U	0.0032 U	-	-	-	-	-	-	-	-	0.050 U
Heptachlor epoxide	ug/L	0.050 U	0.050 U	-	0.0025 U	0.0025 U	-	-	-	-	-	-	-	-	0.050 U
Methoxychlor	ug/L	0.10 U	0.10 U	-	0.0045 U	0.0046 U	-	-	-	-	-	-	-	-	0.10 UJ
Toxaphene	ug/L	2.0 U	2.0 U	-	0.056 U	0.056 U	-	-	-	-	-	-	-	-	2.0 U
Gases															
Ethane	ug/L	-	1.0	-	-	-	1	-	-	-	-	-	-	-	-
Ethene	ug/L	-	0.50 U	-	-	-	U	-	-	-	-	-	-	-	-
Methane	ug/L	-	280	-	-	-	82 D/88 E	-	-	-	-	-	-	-	-
Herbicides															
2,4,5-T	ug/L	-	-	-	0.57 U	0.57 U	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	1.0 U	1.0 U	-	0.43 U	0.43 U	-	-	-	-	-	-	-	-	1.0 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	4.0 U	4.0 U	-	2.2 U	2.2 U	-	-	-	-	-	-	-	-	4.0 U
Petroleum Products															
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry															
Alkalinity, total (as CaCO3)	ug/L	-	309000	-	-	-	510000	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	U	-	-	-	-	-	-	-	-
Chloride	ug/L	-	41000	-	47000	47000	198000	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	10 U	-	6 U	6 U	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	4000	-	-	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**
Sample ID:		**GW-38443-091108-NZ-013**	**GW-38443-072109-GL-003**	**GW-38443-051215-GL-008**	**GW-38443-101718-AS-218**	**GW-38443-101718-AS-219**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**GW-38443-090408-GL-002**
Sample Date:		**9/11/2008**	**7/21/2009**	**5/12/2015**	**10/17/2018**	**10/17/2018**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/15/2004**	**8/4/2005**	**9/4/2008**
Sample Depth:		**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**
Parameters	**Units**														
Hardness	ug/L	-	291000	-	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	100 U	-	33 J	14 U	900	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	100 U	-	14 U	14 U	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	45000	-	21000	21000	58900	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	3000 U	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	2000	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**
Sample ID:		**GW-38443-072209-GL-006**	**GW-38443-051515-AS-023**	**GW-38443-100317-DA-003**	**GW-38443-100617-DA-013**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**GW-38443-090408-GL-001**	**GW-38443-051215-GL-006**
Sample Date:		**7/22/2009**	**5/15/2015**	**10/3/2017**	**10/6/2017**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/4/2008**	**5/12/2015**
Sample Depth:		**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	ug/L	5.7 U	2.5 U	0.46 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.7 UJ	2.5 U	0.64 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	5.7 U	2.5 U	0.68 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	5.7 U	2.5 U	0.50 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	5.7 U	2.5 U	0.54 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.7 UJ	2.5 U	0.54 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	11 U	5.0 U	0.0084 U	-	-	-	-	-	-	-	-	-	2.0 UJ	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5.7 U	2.5 U	0.0071 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	5.7 U	2.5 U	0.52 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	5.7 U	2.5 U	0.60 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	U	U	U	U	U	U	U	U	-	-
1,2-Dichloropropane	ug/L	5.7 U	2.5 U	0.60 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	5.7 U	2.5 U	0.64 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	5.7 U	2.5 U	0.46 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	57 U	25 U	2.0 U	-	-	-	-	-	-	-	-	-	10 U	10 U
2-Hexanone	ug/L	57 U	25 U	2.5 U	-	-	-	-	-	-	-	-	-	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	57 U	25 U	1.4 U	-	-	-	-	-	-	-	-	-	10 U	10 U
Acetone	ug/L	57 U	25 U	3.5 U	-	U	U	U	U	U	U	U	U	10 U	10 U
Benzene	ug/L	5.7 U	2.5 U	0.56 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Bromodichloromethane	ug/L	5.7 U	2.5 U	0.60 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Bromoform	ug/L	5.7 U	2.5 U	0.86 U	-	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.7 U	2.5 U	0.84 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ
Carbon disulfide	ug/L	5.7 UJ	2.5 U	0.68 U	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U
Carbon tetrachloride	ug/L	5.7 U	2.5 U	0.70 UJ	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Chlorobenzene	ug/L	5.7 U	2.5 U	0.64 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Chloroethane	ug/L	5.7 U	2.5 U	0.82 UJ	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	5.7 U	2.5 U	0.62 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.7 U	2.5 U	0.86 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	**36[b]**	**14[b]**	**12[b]**	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	5.7 UJ	2.5 U	0.52 U	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U
Cyclohexane	ug/L	5.7 UJ	2.5 U	0.88 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Dibromochloromethane	ug/L	5.7 U	2.5 U	0.50 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.7 UJ	2.5 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Ethylbenzene	ug/L	5.7 U	2.5 U	0.52 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.7 U	2.5 U	0.42 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	0.48 U	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	57 U	25 U	2.9 U	-	-	-	-	-	-	-	-	-	10 U	10 U
Methyl cyclohexane	ug/L	5.7 UJ	2.5 U	0.90 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	29 U	2.5 U	0.54 U	-	-	-	-	-	-	-	-	-	5.0 U	1.0 U
Methylene chloride	ug/L	5.7 U	2.5 U	1.1 U	-	U	**5.4 B[a]**	U	U	U	U	U	U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	0.56 U	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	5.7 U	2.5 U	0.46 U	-	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U
Tetrachloroethene	ug/L	5.7 UJ	2.5 U	0.60 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Toluene	ug/L	5.7 U	2.5 U	0.46 U	-	2 J	5.8	6.6	U	U	U	U	U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.6 J	2.5 U	0.58 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	5.7 UJ	2.5 U	0.62 U	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U
Trichloroethene	ug/L	**180[ab]**	**78[ab]**	**47[ab]**	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5.7 U	2.5 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	5.7 U	2.5 U	0.82 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Vinyl chloride	ug/L	5.7 U	2.5 U	0.90 U	-	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Xylenes (total)	ug/L	11 U	5.0 U	0.48 U	-	U	U	U	U	U	U	U	U	2.0 U	2.0 U
Semi-Volatiles															
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	-	0.40 U	-	-	-	-	-	-	-	-	-	1.0 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-210	MW-210	MW-210	MW-210	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212
Sample ID:		GW-38443-072209-GL-006	GW-38443-051515-AS-023	GW-38443-100317-DA-003	GW-38443-100617-DA-013	MW212	MW212	MW212	MW212	MW212	MW212	MW212	MW212	GW-38443-090408-GL-001	GW-38443-051215-GL-006
Sample Date:		7/22/2009	5/15/2015	10/3/2017	10/6/2017	2/18/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005	9/4/2008	5/12/2015
Sample Depth:		26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	26-36 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD
Parameters	**Units**														
2,4,5-Trichlorophenol	ug/L	5.0 U	-	0.30 U	-	-	-	-	-	-	-	-	-	5.0 U	-
2,4,6-Trichlorophenol	ug/L	5.0 U	-	0.24 U	-	-	-	-	-	-	-	-	-	5.0 U	-
2,4-Dichlorophenol	ug/L	2.0 U	-	0.19 U	-	-	-	-	-	-	-	-	-	2.0 U	-
2,4-Dimethylphenol	ug/L	2.0 U	-	0.25 U	-	-	-	-	-	-	-	-	-	2.0 U	-
2,4-Dinitrophenol	ug/L	5.0 U	-	0.32 U	-	-	-	-	-	-	-	-	-	5.0 U	-
2,4-Dinitrotoluene	ug/L	5.0 U	-	0.25 U	-	-	-	-	-	-	-	-	-	5.0 U	-
2,6-Dinitrotoluene	ug/L	5.0 U	-	0.80 U	-	-	-	-	-	-	-	-	-	5.0 U	-
2-Chloronaphthalene	ug/L	1.0 U	-	0.10 U	-	-	-	-	-	-	-	-	-	1.0 U	-
2-Chlorophenol	ug/L	1.0 U	-	0.29 U	-	-	-	-	-	-	-	-	-	1.0 U	-
2-Methylnaphthalene	ug/L	0.20 U	-	0.090 U	-	-	-	-	-	-	-	-	-	0.20 U	-
2-Methylphenol	ug/L	1.0 U	-	0.17 U	-	-	-	-	-	-	-	-	-	1.0 U	-
2-Nitroaniline	ug/L	2.0 U	-	0.21 U	-	-	-	-	-	-	-	-	-	2.0 U	-
2-Nitrophenol	ug/L	2.0 U	-	0.28 U	-	-	-	-	-	-	-	-	-	2.0 U	-
3&4-Methylphenol	ug/L	-	-	0.80 U	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	-	0.37 U	-	-	-	-	-	-	-	-	-	5.0 U	-
3-Nitroaniline	ug/L	2.0 U	-	0.28 U	-	-	-	-	-	-	-	-	-	2.0 U	-
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	-	2.4 U	-	-	-	-	-	-	-	-	-	5.0 U	-
4-Bromophenyl phenyl ether	ug/L	2.0 U	-	0.22 U	-	-	-	-	-	-	-	-	-	2.0 U	-
4-Chloro-3-methylphenol	ug/L	2.0 U	-	0.21 U	-	-	-	-	-	-	-	-	-	2.0 U	-
4-Chloroaniline	ug/L	2.0 U	-	0.21 U	-	-	-	-	-	-	-	-	-	2.0 U	-
4-Chlorophenyl phenyl ether	ug/L	2.0 U	-	0.30 U	-	-	-	-	-	-	-	-	-	2.0 U	-
4-Methylphenol	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-
4-Nitroaniline	ug/L	2.0 U	-	0.22 U	-	-	-	-	-	-	-	-	-	2.0 U	-
4-Nitrophenol	ug/L	5.0 U	-	0.29 U	-	-	-	-	-	-	-	-	-	5.0 U	-
Acenaphthene	ug/L	0.20 U	-	0.044 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Acenaphthylene	ug/L	0.20 U	-	0.048 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Acetophenone	ug/L	1.0 U	-	0.34 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Anthracene	ug/L	0.20 U	-	0.088 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Atrazine	ug/L	1.0 U	-	0.34 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Benzaldehyde	ug/L	1.0 U	-	0.39 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Benzo(a)anthracene	ug/L	0.20 U	-	0.030 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(a)pyrene	ug/L	0.20 U	-	0.051 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(b)fluoranthene	ug/L	0.20 U	-	0.039 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(g,h,i)perylene	ug/L	0.20 U	-	0.046 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(k)fluoranthene	ug/L	0.20 U	-	0.045 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	-	0.13 U	-	-	-	-	-	-	-	-	-	1.0 U	-
bis(2-Chloroethoxy)methane	ug/L	1.0 U	-	0.32 U	-	-	-	-	-	-	-	-	-	1.0 U	-
bis(2-Chloroethyl)ether	ug/L	1.0 U	-	0.10 U	-	-	-	-	-	-	-	-	-	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	-	1.7 U	-	-	-	-	-	-	-	-	-	2.4 U	-
Butyl benzylphthalate (BBP)	ug/L	1.0 U	-	0.26 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Caprolactam	ug/L	5.0 U	-	0.20 U	-	-	-	-	-	-	-	-	-	11	-
Carbazole	ug/L	1.0 U	-	0.28 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Chrysene	ug/L	0.20 U	-	0.050 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Dibenz(a,h)anthracene	ug/L	0.20 U	-	0.045 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Dibenzofuran	ug/L	1.0 U	-	0.020 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Diethyl phthalate	ug/L	1.0 U	-	0.60 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Dimethyl phthalate	ug/L	1.0 U	-	0.29 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Di-n-butylphthalate (DBP)	ug/L	1.0 U	-	1.7 U	-	-	-	-	-	-	-	-	-	1.2 U	-
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	-	0.23 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Fluoranthene	ug/L	0.20 U	-	0.045 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Fluorene	ug/L	0.20 U	-	0.041 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Hexachlorobenzene	ug/L	0.20 U	-	0.085 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Hexachlorobutadiene	ug/L	1.0 U	-	0.27 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Hexachlorocyclopentadiene	ug/L	10 U	-	0.24 U	-	-	-	-	-	-	-	-	-	10 U	-
Hexachloroethane	ug/L	1.0 U	-	0.19 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	-	0.043 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Isophorone	ug/L	1.0 U	-	0.27 U	-	-	-	-	-	-	-	-	-	1.0 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**
Sample ID:		**GW-38443-072209-GL-006**	**GW-38443-051515-AS-023**	**GW-38443-100317-DA-003**	**GW-38443-100617-DA-013**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**GW-38443-090408-GL-001**	**GW-38443-051215-GL-006**
Sample Date:		**7/22/2009**	**5/15/2015**	**10/3/2017**	**10/6/2017**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/4/2008**	**5/12/2015**
Sample Depth:		**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**														
Naphthalene	ug/L	0.20 U	-	0.063 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Nitrobenzene	ug/L	1.0 U	-	0.040 U	-	-	-	-	-	-	-	-	-	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	1.0 U	-	0.24 U	-	-	-	-	-	-	-	-	-	1.0 U	-
N-Nitrosodiphenylamine	ug/L	1.0 U	-	0.31 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Pentachlorophenol	ug/L	5.0 U	-	0.27 U	-	-	-	-	-	-	-	-	-	5.0 U	-
Phenanthrene	ug/L	0.20 U	-	0.062 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Phenol	ug/L	1.0 U	-	0.60 U	-	-	-	-	-	-	-	-	-	1.0 U	-
Pyrene	ug/L	0.20 U	-	0.042 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Metals															
Aluminum	ug/L	200 U	-	-	61	-	-	-	-	-	-	-	-	150 J	-
Aluminum (dissolved)	ug/L	200 U	-	-	34 U	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	2.0 U	-	-	0.57 U	-	-	-	-	-	-	-	-	2.0 U	-
Antimony (dissolved)	ug/L	2.0 U	-	-	0.57 U	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	**0.70 J[b]**	-	-	0.75 U	U	-	-	-	-	-	-	-	**3.7 J[b]**	-
Arsenic (dissolved)	ug/L	**0.72 J[b]**	-	-	0.75 U	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	122 J	-	-	120	U	-	-	-	-	-	-	-	175 J	-
Barium (dissolved)	ug/L	121 J	-	-	110	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	5.0 U	-	-	0.31 U	-	-	-	-	-	-	-	-	5.0 U	-
Beryllium (dissolved)	ug/L	5.0 U	-	-	0.31 U	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	1.0 U	-	-	0.21 U	U	-	-	-	-	-	-	-	1.0 U	-
Cadmium (dissolved)	ug/L	1.0 U	-	-	0.21 U	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	97900	-	-	110000	-	-	-	-	-	-	-	-	37700	-
Calcium (dissolved)	ug/L	97900	-	-	110000	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	10.0 U	-	-	0.98 U	13	-	-	-	-	-	-	-	10.0 U	-
Chromium (dissolved)	ug/L	10.0 U	-	-	0.98 U	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	50.0 U	-	-	**0.96 J[b]**	-	-	-	-	-	-	-	-	50.0 U	-
Cobalt (dissolved)	ug/L	50.0 U	-	-	**0.85 J[b]**	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	25.0 U	-	-	1.7 U	-	-	-	-	-	-	-	-	25.0 U	-
Copper (dissolved)	ug/L	25.0 U	-	-	1.7 U	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	106	-	-	200	-	-	-	-	-	-	-	-	894	-
Iron (dissolved)	ug/L	100 U	-	-	64 J	1200	-	-	-	-	-	-	-	-	-
Lead	ug/L	1.0 U	-	-	0.45 U	U	-	-	-	-	-	-	-	1.0 U	-
Lead (dissolved)	ug/L	1.0 U	-	-	0.45 U	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	41000	-	-	39000	-	-	-	-	-	-	-	-	11500	-
Magnesium (dissolved)	ug/L	41100	-	-	38000	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	**661[b]**	-	-	**610[b]**	-	-	-	-	-	-	-	-	**57.2[b]**	-
Manganese (dissolved)	ug/L	**656[b]**	-	-	**590[b]**	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	1111	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.20 U	-	-	0.13 U	-	-	-	-	-	-	-	-	0.20 U	-
Mercury (dissolved)	ug/L	0.20 U	-	-	0.13 U	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	40.0 U	-	-	1.5 J	-	-	-	-	-	-	-	-	40.0 U	-
Nickel (dissolved)	ug/L	40.0 U	-	-	1.5 U	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	6620	-	-	7100	-	-	-	-	-	-	-	-	13600	-
Potassium (dissolved)	ug/L	6590	-	-	7100	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	5.0 U	-	-	0.89 U	-	-	-	-	-	-	-	-	5.0 U	-
Selenium (dissolved)	ug/L	5.0 U	-	-	0.89 U	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	1.0 U	-	-	0.053 U	-	-	-	-	-	-	-	-	1.0 U	-
Silver (dissolved)	ug/L	1.0 U	-	-	0.053 U	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	80000	-	-	71000	-	-	-	-	-	-	-	-	105000	-
Sodium (dissolved)	ug/L	79800	-	-	71000	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	1.0 U	-	-	0.20 U	-	-	-	-	-	-	-	-	1.0 U	-
Thallium (dissolved)	ug/L	1.0 U	-	-	0.20 U	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**
Sample ID:		**GW-38443-072209-GL-006**	**GW-38443-051515-AS-023**	**GW-38443-100317-DA-003**	**GW-38443-100617-DA-013**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**GW-38443-090408-GL-001**	**GW-38443-051215-GL-006**
Sample Date:		**7/22/2009**	**5/15/2015**	**10/3/2017**	**10/6/2017**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/4/2008**	**5/12/2015**
Sample Depth:		**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**														
Vanadium	ug/L	50.0 U	-	-	0.82 U	-	-	-	-	-	-	-	-	50.0 U	-
Vanadium (dissolved)	ug/L	50.0 U	-	-	0.82 U	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	20.0 U	-	-	15 U	-	-	-	-	-	-	-	-	20.0 U	-
Zinc (dissolved)	ug/L	20.0 U	-	-	15 U	-	-	-	-	-	-	-	-	-	-
PCBs															
Aroclor-1016 (PCB-1016)	ug/L	0.20 U	-	0.051 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1221 (PCB-1221)	ug/L	0.20 U	-	0.091 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1232 (PCB-1232)	ug/L	0.20 U	-	0.071 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1242 (PCB-1242)	ug/L	0.20 U	-	0.061 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1248 (PCB-1248)	ug/L	0.20 U	-	0.051 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1254 (PCB-1254)	ug/L	0.20 U	-	0.030 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1260 (PCB-1260)	ug/L	0.20 U	-	0.040 U	-	-	-	-	-	-	-	-	-	0.20 U	-
Pesticides															
4,4'-DDD	ug/L	0.050 UJ	-	0.018 U	-	-	-	-	-	-	-	-	-	0.050 UJ	-
4,4'-DDE	ug/L	0.050 U	-	0.012 U	-	-	-	-	-	-	-	-	-	0.050 U	-
4,4'-DDT	ug/L	0.050 U	-	0.017 U	-	-	-	-	-	-	-	-	-	0.050 UJ	-
Aldrin	ug/L	0.050 U	-	0.013 U	-	-	-	-	-	-	-	-	-	0.050 U	-
alpha-BHC	ug/L	0.050 U	-	0.014 U	-	-	-	-	-	-	-	-	-	0.050 U	-
alpha-Chlordane	ug/L	0.050 U	-	0.012 U	-	-	-	-	-	-	-	-	-	0.050 U	-
beta-BHC	ug/L	0.050 U	-	0.018 U	-	-	-	-	-	-	-	-	-	0.050 U	-
delta-BHC	ug/L	0.050 U	-	0.030 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Dieldrin	ug/L	0.050 U	-	0.013 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Endosulfan I	ug/L	0.050 U	-	0.016 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Endosulfan II	ug/L	0.050 U	-	0.015 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Endosulfan sulfate	ug/L	0.050 U	-	0.015 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Endrin	ug/L	0.050 U	-	0.013 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Endrin aldehyde	ug/L	0.050 U	-	0.018 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Endrin ketone	ug/L	0.050 U	-	0.016 U	-	-	-	-	-	-	-	-	-	0.050 U	-
gamma-BHC (lindane)	ug/L	0.050 U	-	0.013 U	-	-	-	-	-	-	-	-	-	0.050 U	-
gamma-Chlordane	ug/L	0.050 U	-	0.013 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Heptachlor	ug/L	0.050 U	-	0.014 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Heptachlor epoxide	ug/L	0.050 U	-	0.015 U	-	-	-	-	-	-	-	-	-	0.050 U	-
Methoxychlor	ug/L	0.10 U	-	0.013 U	-	-	-	-	-	-	-	-	-	0.10 UJ	-
Toxaphene	ug/L	2.0 U	-	0.20 U	-	-	-	-	-	-	-	-	-	2.0 U	-
Gases															
Ethane	ug/L	0.31 J	-	-	-	1	-	-	-	-	-	-	-	-	-
Ethene	ug/L	0.50 U	-	-	-	U	-	-	-	-	-	-	-	-	-
Methane	ug/L	140	-	-	-	1300 D/300 E	-	-	-	-	-	-	-	-	-
Herbicides															
2,4,5-T	ug/L	-	-	0.24 U	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	1.0 U	-	0.20 U	-	-	-	-	-	-	-	-	-	1.0 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	4.0 U	-	1.1 U	-	-	-	-	-	-	-	-	-	4.0 U	-
Petroleum Products															
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry															
Alkalinity, total (as CaCO3)	ug/L	367000	-	-	-	270000	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	1700	-	-	-	-	-	-	-	-	-
Chloride	ug/L	172000	-	120000	-	96300	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	10 U	-	5.0 UJ	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	2000	-	-	-	-	-	-	-	-	-	-	-	-	-

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Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**
Sample ID:		**GW-38443-072209-GL-006**	**GW-38443-051515-AS-023**	**GW-38443-100317-DA-003**	**GW-38443-100617-DA-013**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**	**GW-38443-090408-GL-001**	**GW-38443-051215-GL-006**
Sample Date:		**7/22/2009**	**5/15/2015**	**10/3/2017**	**10/6/2017**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/4/2008**	**5/12/2015**	
Sample Depth:		**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	
Parameters	**Units**															
Hardness	ug/L	413000	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrate (as N)	ug/L	100 U	-	14 U	-	U	-	-	-	-	-	-	-	-	-	
Nitrite (as N)	ug/L	100 U	-	14 U	-	-	-	-	-	-	-	-	-	-	-	
Sulfate	ug/L	50000	-	58000	-	94500	-	-	-	-	-	-	-	-	-	
Sulfide (acid soluble)	ug/L	3000 U	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total organic carbon (TOC)	ug/L	-	-	-	-	4000	-	-	-	-	-	-	-	-	-	

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-212	MW-215A	MW-215A	MW-215A	MW-217	MW-217	MW-217	MW-219	MW-219	MW-219	MW-219
Sample ID:		GW-38443-101718-AS-222	GW-38443-072409-GL-012	GW-38443-010510-DR-009	GW-38443-051315-AS-014	GW-38443-072809-GL-020	GW-38443-011210-NZ-030	GW-38443-101718-JC-217	GW-38443-011210-NZ-028	GW-38443-011210-NZ-029	GW-38443-041410-GL-011	GW-38443-051315-GL-013
Sample Date:		10/17/2018	7/24/2009	1/5/2010	5/13/2015	7/28/2009	1/12/2010	10/17/2018	1/12/2010	1/12/2010	4/14/2010	5/13/2015
Sample Depth:		46-56 ft BGS	19-29 ft BGS	19-29 ft BGS	19-29 ft BGS	45-50 ft BGS	45-50 ft BGS	45-50 ft BGS	22-32 ft BGS	22-32 ft BGS Duplicate	22-32 ft BGS	22-32 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	0.24 U	4.0 U	1.7 U	1.0 U	0.22 J	0.26 J	0.24 U	6.7 U	5.6 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.13 U	4.0 UJ	1.7 UJ	1.0 U	1.0 UJ	1.0 U	0.13 U	6.7 U	5.6 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	ug/L	0.090 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.090 U	6.7 U	5.6 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.17 U	4.0 U	1.7 U	1.0 U	0.86 J	1.3	0.17 U	6.7 U	5.6 U	1.0 UJ	1.0 U
1,1-Dichloroethene	ug/L	0.19 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.19 U	6.7 U	5.6 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.26 U	4.0 UJ	1.7 U	1.0 U	1.0 U	1.0 U	0.26 U	6.7 U	5.6 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	8.0 U	3.3 UJ	2.0 U	2.0 U	2.0 U	0.0086 U	13 U	11 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.0087 U	6.7 U	5.6 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	1.7 J	1.8 J	1.2	1.0 U
1,2-Dichloroethane	ug/L	0.21 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.21 U	6.7 U	5.6 U	1.0 UJ	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	6.7 U	5.6 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	6.7 U	5.6 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.16 U	4.0 U	0.53 J[b]	0.37 J	1.0 U	1.0 U	0.16 U	6.7 U	5.6 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.2 U	40 U	17 U	10 U	10 U	10 U	1.2 U	67 U	56 U	10 UJ	10 U
2-Hexanone	ug/L	0.54 U	40 U	17 U	10 U	10 U	10 U	0.54 U	67 U	56 U	10 UJ	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.42 U	40 U	0.77 J	10 U	10 U	10 U	0.42 U	67 U	56 U	10 UJ	10 U
Acetone	ug/L	5.4 U	40 U	17 U	10 U	10 U	10 U	5.4 U	67 U	56 U	10 UJ	10 U
Benzene	ug/L	0.13 U	12[ab]	13[ab]	2.8[b]	1.0 U	1.0 U	0.13 U	17[ab]	18[ab]	5.0 U	1.0 U
Bromodichloromethane	ug/L	0.17 U	4.0 U	1.7 UJ	1.0 U	1.0 U	1.0 U	0.17 U	6.7 U	5.6 U	1.0 U	1.0 U
Bromoform	ug/L	0.76 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.76 U	6.7 U	5.6 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	0.42 U	4.0 U	1.7 U	1.0 UJ	1.0 U	R	0.42 U	6.7 U	5.6 U	1.0 U	1.0 UJ
Carbon disulfide	ug/L	0.28 U	4.0 UJ	1.7 U	1.0 U	1.0 U	1.0 U	0.28 U	6.7 U	5.6 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	0.26 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.26 U	6.7 U	5.6 U	1.0 U	1.0 U
Chlorobenzene	ug/L	0.14 U	4.2	3.9	1.7	1.0 U	1.0 U	0.14 U	5.8 J	6.2	5.1	1.0 U
Chloroethane	ug/L	0.83 U	4.0 U	1.7 UJ	1.0 U	1.0 U	R	0.83 U	6.7 UJ	5.6 UJ	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.13 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.13 U	6.7 U	5.6 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	0.20 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 UJ	0.20 U	6.7 U	5.6 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.16 U	4.0 U	0.67 J	0.93 J	0.98 J	1.5	0.16 U	6.7 U	5.6 U	4.8[b]	1.0 U
cis-1,3-Dichloropropene	ug/L	0.61 U	4.0 UJ	1.7 UJ	1.0 U	1.0 UJ	1.0 U	0.61 U	6.7 U	5.6 U	1.0 U	1.0 U
Cyclohexane	ug/L	0.24 U	2.5 J	3.2	0.58 J	1.0 UJ	1.0 U	0.24 U	6.0 J	6.9	2.6	1.0 U
Dibromochloromethane	ug/L	0.39 U	4.0 U	1.7 UJ	1.0 U	1.0 U	1.0 U	0.39 U	6.7 U	5.6 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.35 U	4.0 UJ	1.7 UJ	1.0 U	1.0 UJ	1.0 U	0.35 U	6.7 U	5.6 U	1.0 UJ	1.0 U
Ethylbenzene	ug/L	0.11 U	23[b]	15[b]	0.48 J	1.0 U	1.0 U	0.11 U	3.6 J[b]	3.9 J[b]	1.0 U	1.0 U
Isopropyl benzene	ug/L	0.090 U	5.1	4.6	0.71 J	1.0 U	1.0 U	0.090 U	33	35	9.2	1.0 U
m&p-Xylenes	ug/L	0.080 U	-	-	-	-	-	0.080 U	-	-	-	-
Methyl acetate	ug/L	1.7 U	40 U	17 U	10 U	10 U	10 U	1.7 U	67 U	56 U	10 UJ	10 U
Methyl cyclohexane	ug/L	0.33 U	14 J	14	1.0 U	1.0 UJ	1.0 U	0.33 U	37	40	20	1.8
Methyl tert butyl ether (MTBE)	ug/L	0.070 U	20 U	0.32 J	1.0 U	5.0 U	0.23 J	0.070 U	33 U	28 U	5.0 U	1.0 U
Methylene chloride	ug/L	2.6 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	2.6 U	6.7 U	5.6 U	1.0 U	1.0 U
o-Xylene	ug/L	0.090 U	-	-	-	-	-	0.090 U	-	-	-	-
Styrene	ug/L	0.10 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.10 U	6.7 U	5.6 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	6.7 U	5.6 U	1.0 UJ	1.0 U
Toluene	ug/L	0.14 U	100	51	1.0 U	1.0 U	1.0 U	0.14 U	6.7 U	5.6 U	0.28 J	0.25 J
trans-1,2-Dichloroethene	ug/L	0.19 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.19 U	6.7 U	5.6 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	0.67 U	4.0 UJ	1.7 UJ	1.0 U	1.0 U	1.0 UJ	0.67 U	6.7 UJ	5.6 UJ	1.0 UJ	1.0 U
Trichloroethene	ug/L	0.10 U	4.0 U	1.7 U	1.0 U	1.8[b]	2.1[b]	0.10 U	6.7 U	5.6 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	0.45 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.45 U	6.7 U	5.6 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.41 U	6.7 U	5.6 U	1.0 U	1.0 U
Vinyl chloride	ug/L	0.20 U	4.0 U	0.40 J[b]	0.31 J[b]	1.0 U	1.0 U	0.20 U	6.7 U	5.6 U	5.8[ab]	1.0 U
Xylenes (total)	ug/L	0.15 U	75[b]	45[b]	2.0 U	2.0 U	0.43 J	0.15 U	64[b]	66[b]	1.4 J	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	0.52 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.54 U	1.0 U	1.0 U	1.0 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-212	MW-215A	MW-215A	MW-215A	MW-217	MW-217	MW-217	MW-219	MW-219	MW-219	MW-219
Sample ID:		GW-38443-101718-AS-222	GW-38443-072409-GL-012	GW-38443-010510-DR-009	GW-38443-051315-AS-014	GW-38443-072809-GL-020	GW-38443-011210-NZ-030	GW-38443-101718-JC-217	GW-38443-011210-NZ-028	GW-38443-011210-NZ-029	GW-38443-041410-GL-011	GW-38443-051315-GL-013
Sample Date:		10/17/2018	7/24/2009	1/5/2010	5/13/2015	7/28/2009	1/12/2010	10/17/2018	1/12/2010	1/12/2010	4/14/2010	5/13/2015
Sample Depth:		46-56 ft BGS	19-29 ft BGS	19-29 ft BGS	19-29 ft BGS	45-50 ft BGS	45-50 ft BGS	45-50 ft BGS	22-32 ft BGS	22-32 ft BGS Duplicate	22-32 ft BGS	22-32 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	1.9 U	5.0 U	5.0 U	-	5.0 U	5.0 U	1.9 U	5.0 U	5.0 U	5.0 U	-
2,4,6-Trichlorophenol	ug/L	1.7 U	5.0 U	5.0 U	-	5.0 U	5.0 U	1.8 U	5.0 U	5.0 U	5.0 U	-
2,4-Dichlorophenol	ug/L	0.25 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.26 U	2.0 U	2.0 U	2.0 U	-
2,4-Dimethylphenol	ug/L	0.49 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.51 U	2.0 U	2.0 U	2.0 U	-
2,4-Dinitrophenol	ug/L	5.9 U	5.0 U	5.0 U	-	5.0 U	5.0 U	6.1 U	5.0 U	5.0 U	5.0 U	-
2,4-Dinitrotoluene	ug/L	2.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	2.0 U	5.0 U	5.0 U	5.0 U	-
2,6-Dinitrotoluene	ug/L	2.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	2.1 U	5.0 U	5.0 U	5.0 U	-
2-Chloronaphthalene	ug/L	0.46 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.47 U	1.0 U	1.0 U	1.0 U	-
2-Chlorophenol	ug/L	0.26 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.27 U	1.0 U	1.0 U	1.0 U	-
2-Methylnaphthalene	ug/L	0.11 U	56[b]	12[b]	-	0.20 U	0.20 U	0.11 U	1.8 U	1.9 U	0.20 U	-
2-Methylphenol	ug/L	0.20 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.20 U	1.0 U	1.0 U	1.0 U	-
2-Nitroaniline	ug/L	0.49 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.50 U	2.0 U	2.0 U	2.0 U	-
2-Nitrophenol	ug/L	0.54 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.55 U	2.0 U	2.0 U	2.0 U	-
3&4-Methylphenol	ug/L	0.18 U	-	-	-	-	-	0.19 U	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	1.1 U	5.0 U	5.0 U	-	5.0 U	5.0 U	R	5.0 U	5.0 U	5.0 U	-
3-Nitroaniline	ug/L	0.54 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.55 U	2.0 U	2.0 U	2.0 U	-
4,6-Dinitro-2-methylphenol	ug/L	2.7 U	5.0 U	5.0 U	-	5.0 U	5.0 U	2.8 U	5.0 U	5.0 U	5.0 U	-
4-Bromophenyl phenyl ether	ug/L	0.48 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.49 U	2.0 U	2.0 U	2.0 U	-
4-Chloro-3-methylphenol	ug/L	0.28 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.29 U	2.0 U	2.0 U	2.0 U	-
4-Chloroaniline	ug/L	0.30 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.31 U	2.0 U	2.0 U	2.0 U	-
4-Chlorophenyl phenyl ether	ug/L	0.52 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.54 U	2.0 U	2.0 U	2.0 U	-
4-Methylphenol	ug/L	-	1.7 #	1.0 U	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	-
4-Nitroaniline	ug/L	0.87 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.90 U	2.0 U	2.0 U	2.0 U	-
4-Nitrophenol	ug/L	2.1 U	5.0 U	5.0 U	-	5.0 U	5.0 U	2.1 U	5.0 U	5.0 U	5.0 U	-
Acenaphthene	ug/L	0.16 U	10	7.6	-	0.20 U	0.20 U	0.17 U	0.20 U	0.20 U	0.20 U	-
Acenaphthylene	ug/L	0.12 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.12 U	0.20 U	0.20 U	0.20 U	-
Acetophenone	ug/L	0.35 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.36 U	1.0 U	1.0 U	1.0 U	-
Anthracene	ug/L	0.13 U	0.43	0.20 U	-	0.20 U	0.20 U	0.13 U	0.20 U	0.20 U	0.20 U	-
Atrazine	ug/L	0.91 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.93 U	1.0 U	1.0 U	1.0 U	-
Benzaldehyde	ug/L	0.72 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.74 U	1.0 U	1.0 U	1.0 U	-
Benzo(a)anthracene	ug/L	0.16 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.17 U	0.20 U	0.20 U	0.20 U	-
Benzo(a)pyrene	ug/L	0.16 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.17 U	0.20 U	0.20 U	0.20 U	-
Benzo(b)fluoranthene	ug/L	0.15 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.15 U	0.20 U	0.20 U	0.20 U	-
Benzo(g,h,i)perylene	ug/L	0.17 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.17 U	0.20 U	0.20 U	0.20 U	-
Benzo(k)fluoranthene	ug/L	0.13 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.14 U	0.20 U	0.20 U	0.20 U	-
Biphenyl (1,1-Biphenyl)	ug/L	0.47 U	1.2[b]	1.0 U	-	1.0 U	1.0 U	0.48 U	1.0 U	1.0 U	1.0 U	-
bis(2-Chloroethoxy)methane	ug/L	0.43 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U	-
bis(2-Chloroethyl)ether	ug/L	0.38 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.39 U	1.0 U	1.0 U	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.1 U	2.0 U	2.0 U	-	2.0 U	2.0 U	28 J[ab]	2.0 U	2.0 U	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	0.63 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.65 U	1.0 U	1.0 U	1.0 U	-
Caprolactam	ug/L	0.89 U	5.0 U	5.0 UJ	-	5.0 UJ	5.0 UJ	0.92 U	5.0 UJ	5.0 UJ	5.0 U	-
Carbazole	ug/L	0.47 U	1.6	0.70 J	-	1.0 U	1.0 U	0.48 U	1.0 U	1.0 U	1.0 U	-
Chrysene	ug/L	0.18 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.18 U	0.20 U	0.20 U	0.20 U	-
Dibenz(a,h)anthracene	ug/L	0.14 U	0.20 U	0.30[b]	-	0.20 U	0.20 U	0.15 U	0.20 U	0.20 U	0.20 U	-
Dibenzofuran	ug/L	0.53 U	3.2[b]	2.0[b]	-	1.0 U	1.0 U	0.55 U	1.0 U	1.0 U	1.0 U	-
Diethyl phthalate	ug/L	3.6 U	1.0 U	1.0 U	-	1.0 U	1.0 U	3.7 U	1.0 U	1.0 U	1.0 U	-
Dimethyl phthalate	ug/L	0.49 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	-
Di-n-butylphthalate (DBP)	ug/L	1.7 U	1.1 U	1.0 U	-	1.0 U	1.0 U	1.8 U	1.0 U	1.0 U	1.0 U	-
Di-n-octyl phthalate (DnOP)	ug/L	0.78 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.80 U	1.0 U	1.0 U	1.0 U	-
Fluoranthene	ug/L	0.15 U	0.39	0.20 U	-	0.20 U	0.20 U	0.16 U	0.20 U	0.20 U	0.20 U	-
Fluorene	ug/L	0.16 U	2.2	1.4	-	0.20 U	0.20 U	0.17 U	0.20 U	0.20 U	0.20 U	-
Hexachlorobenzene	ug/L	0.15 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.16 U	0.20 U	0.20 U	0.20 U	-
Hexachlorobutadiene	ug/L	0.52 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U	1.0 U	-
Hexachlorocyclopentadiene	ug/L	1.7 U	10 U	10 U	-	10 U	10 U	1.7 U	10 U	10 U	10 U	-
Hexachloroethane	ug/L	0.38 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.39 U	1.0 U	1.0 U	1.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.13 U	0.20 U	0.30[b]	-	0.20 U	0.20 U	0.13 U	0.20 U	0.20 U	0.20 U	-
Isophorone	ug/L	0.31 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U	1.0 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-212	MW-215A	MW-215A	MW-215A	MW-217	MW-217	MW-217	MW-219	MW-219	MW-219	MW-219
Sample ID:		GW-38443-101718-AS-222	GW-38443-072409-GL-012	GW-38443-010510-DR-009	GW-38443-051315-AS-014	GW-38443-072809-GL-020	GW-38443-011210-NZ-030	GW-38443-101718-JC-217	GW-38443-011210-NZ-028	GW-38443-011210-NZ-029	GW-38443-041410-GL-011	GW-38443-051315-GL-013
Sample Date:		10/17/2018	7/24/2009	1/5/2010	5/13/2015	7/28/2009	1/12/2010	10/17/2018	1/12/2010	1/12/2010	4/14/2010	5/13/2015
Sample Depth:		46-56 ft BGS	19-29 ft BGS	19-29 ft BGS	19-29 ft BGS	45-50 ft BGS	45-50 ft BGS	45-50 ft BGS	22-32 ft BGS	22-32 ft BGS Duplicate	22-32 ft BGS	22-32 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Naphthalene	ug/L	0.10 U	17[b]	6.3[b]	-	0.20 U	0.20 U	0.11 U	4.8 U	4.7 U	0.20 U	-
Nitrobenzene	ug/L	0.49 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	0.24 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	-
N-Nitrosodiphenylamine	ug/L	0.42 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U	1.0 U	-
Pentachlorophenol	ug/L	3.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	3.0 U	5.0 U	5.0 U	5.0 U	-
Phenanthrene	ug/L	0.16 U	2.7	0.49	-	0.20 U	0.20 U	0.16 U	0.20 U	0.20 U	0.20 U	-
Phenol	ug/L	0.12 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.13 U	1.0 U	1.0 U	1.0 U	-
Pyrene	ug/L	0.17 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.17 U	0.20 U	0.20 U	0.20 U	-
Metals												
Aluminum	ug/L	150	200 U	152 J	-	200 U	200 U	34 U	772	774	200 U	-
Aluminum (dissolved)	ug/L	34 U	200 U	-	-	200 U	-	34 U	-	-	-	-
Antimony	ug/L	0.57 U	2.0 U	0.22 J	-	2.0 U	2.0 U	0.57 U	0.48 J	0.46 J	2.0 U	-
Antimony (dissolved)	ug/L	0.57 U	2.0 U	-	-	2.0 U	-	0.57 U	-	-	-	-
Arsenic	ug/L	1.1 J[b]	3.7 J[b]	3.3 J[b]	-	2.2 J[b]	1.9 J[b]	0.87 J[b]	16.4[ab]	16.0[ab]	11.5[ab]	-
Arsenic (dissolved)	ug/L	1.0 J[b]	3.7 J[b]	-	-	2.1 J[b]	-	0.75 U	-	-	-	-
Barium	ug/L	370	2220[ab]	1050[b]	-	128 J	108 J	97	1050[b]	1030[b]	968[b]	-
Barium (dissolved)	ug/L	400[b]	2140[ab]	-	-	126 J	-	89	-	-	-	-
Beryllium	ug/L	0.31 U	5.0 U	5.0 U	-	5.0 U	5.0 U	0.31 J	5.0 U	5.0 U	5.0 U	-
Beryllium (dissolved)	ug/L	0.31 U	5.0 U	-	-	5.0 U	-	0.55 J	-	-	-	-
Cadmium	ug/L	0.21 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U	1.0 U	-
Cadmium (dissolved)	ug/L	0.21 U	1.0 U	-	-	1.0 U	-	0.21 U	-	-	-	-
Calcium	ug/L	22000	105000	99900	-	116000	108000	120000	134000	132000	152000	-
Calcium (dissolved)	ug/L	23000	106000	-	-	115000	-	110000	-	-	-	-
Chromium	ug/L	2.1	10.0 U	10.0 U	-	10.0 U	10.0 U	0.98 U	10.0 U	10.0 U	10.0 U	-
Chromium (dissolved)	ug/L	0.98 U	10.0 U	-	-	10.0 U	-	0.98 U	-	-	-	-
Cobalt	ug/L	0.33 J	50.0 U	50.0 U	-	2.2 J[b]	1.7 J[b]	1.1[b]	50.0 U	50.0 U	50.0 U	-
Cobalt (dissolved)	ug/L	0.25 J	50.0 U	-	-	1.8 J[b]	-	1.1[b]	-	-	-	-
Copper	ug/L	1.7 U	39.5	32.2	-	25.0 U	25.0 U	1.7 U	354[b]	330[b]	32.3	-
Copper (dissolved)	ug/L	1.7 U	25.0 U	-	-	25.0 U	-	1.7 U	-	-	-	-
Iron	ug/L	640	8810[b]	8060[b]	-	1000	320 U	200	20400[b]	20000[b]	14200[b]	-
Iron (dissolved)	ug/L	450	8500[b]	-	-	781	-	120	-	-	-	-
Lead	ug/L	0.45 U	10	17.6[ab]	-	1.0 U	1.0 U	0.45 U	6.1	5.4	0.64 J	-
Lead (dissolved)	ug/L	0.45 U	1.0 U	-	-	1.0 U	-	0.45 U	-	-	-	-
Magnesium	ug/L	5800	73600	88700	-	93200	96300	110000	41200	40500	48000	-
Magnesium (dissolved)	ug/L	5900	73100	-	-	93100	-	100000	-	-	-	-
Manganese	ug/L	36	164[b]	148[b]	-	1060[b]	675[b]	710[b]	358[b]	350[b]	349[b]	-
Manganese (dissolved)	ug/L	34	158[b]	-	-	1070[b]	-	670[b]	-	-	-	-
Manganese 2+	ug/L	-	250 U	461	-	1241	680 J	-	119 J	151 J	-	-
Mercury	ug/L	0.13 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.13 U	0.20 U	0.20 U	0.20 U	-
Mercury (dissolved)	ug/L	0.13 U	0.20 U	-	-	0.20 U	-	0.13 U	-	-	-	-
Nickel	ug/L	2.3	40.0 U	5.6 J	-	5.1 J	5.6 J	4.4	7.6 J	7.0 J	40.0 U	-
Nickel (dissolved)	ug/L	1.5 J	40.0 U	-	-	5.1 J	-	4.0	-	-	-	-
Potassium	ug/L	21000	23000	23200	-	17300	20000	22000	10100	9830	11700	-
Potassium (dissolved)	ug/L	22000	22800	-	-	17200 J	-	21000	-	-	-	-
Selenium	ug/L	0.89 U	5.0 U	5.0 U	-	5.0 U	5.0 U	1.3 J	5.0 U	5.0 U	5.0 U	-
Selenium (dissolved)	ug/L	0.89 U	5.0 U	-	-	5.0 U	-	1.5 J	-	-	-	-
Silver	ug/L	1.6	1.0 U	1.0 U	-	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	-
Silver (dissolved)	ug/L	0.053 U	1.0 U	-	-	1.0 U	-	0.053 U	-	-	-	-
Sodium	ug/L	69000	90200	93300	-	56500	58500	78000	34800	34100	41900	-
Sodium (dissolved)	ug/L	72000	90000	-	-	56100	-	75000	-	-	-	-
Thallium	ug/L	0.20 U	1.0 U	1.0 U	-	1.0 U	1.0 U	0.21 J[b]	1.0 U	1.0 U	1.0 U	-
Thallium (dissolved)	ug/L	0.20 U	1.0 U	-	-	1.0 U	-	0.25 J[b]	-	-	-	-

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Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-212	MW-215A	MW-215A	MW-215A	MW-217	MW-217	MW-217	MW-219	MW-219	MW-219	MW-219
Sample ID:		GW-38443-101718-AS-222	GW-38443-072409-GL-012	GW-38443-010510-DR-009	GW-38443-051315-AS-014	GW-38443-072809-GL-020	GW-38443-011210-NZ-030	GW-38443-101718-JC-217	GW-38443-011210-NZ-028	GW-38443-011210-NZ-029	GW-38443-041410-GL-011	GW-38443-051315-GL-013
Sample Date:		10/17/2018	7/24/2009	1/5/2010	5/13/2015	7/28/2009	1/12/2010	10/17/2018	1/12/2010	1/12/2010	4/14/2010	5/13/2015
Sample Depth:		46-56 ft BGS	19-29 ft BGS	19-29 ft BGS	19-29 ft BGS	45-50 ft BGS	45-50 ft BGS	45-50 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD Duplicate	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	0.82 U	50.0 U	50.0 U	-	50.0 U	50.0 U	0.82 U	2.5 J	2.6 J	50.0 U	-
Vanadium (dissolved)	ug/L	0.82 U	50.0 U	-	-	50.0 U	-	0.82 U	-	-	-	-
Zinc	ug/L	15 U	20.0 U	20.0 U	-	20.0 U	20.0 U	15 U	151	84.4 U	20.0 U	-
Zinc (dissolved)	ug/L	15 U	20.0 U	-	-	20.0 U	-	15 U	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	0.055 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.054 U	0.20 U	0.20 U	0.20 U	-
Aroclor-1221 (PCB-1221)	ug/L	0.056 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.055 U	0.20 U	0.20 U	0.20 U	-
Aroclor-1232 (PCB-1232)	ug/L	0.073 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.071 U	0.20 U	0.20 U	0.20 U	-
Aroclor-1242 (PCB-1242)	ug/L	0.075 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.073 U	0.20 U	0.063 J[b]	0.20 U	-
Aroclor-1248 (PCB-1248)	ug/L	0.049 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.048 U	0.20 U	0.20 U	0.20 U	-
Aroclor-1254 (PCB-1254)	ug/L	0.039 U	0.19 J[b]	0.30[b]	-	0.20 U	0.20 U	0.038 U	0.20 U	0.051 J[b]	0.20 U	-
Aroclor-1260 (PCB-1260)	ug/L	0.045 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.044 U	0.20 U	0.20 U	0.20 U	-
Pesticides												
4,4'-DDD	ug/L	0.10 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0051 U	0.050 U	0.050 U	0.050 UJ	-
4,4'-DDE	ug/L	0.0042 U	0.017 J	0.023 J	-	0.050 U	0.050 U	0.0041 U	0.050 U	0.050 U	0.050 U	-
4,4'-DDT	ug/L	0.094 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0046 U	0.050 U	0.050 U	0.050 UJ	-
Aldrin	ug/L	0.0024 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0023 U	0.050 U	0.050 U	0.050 U	-
alpha-BHC	ug/L	0.039 U	0.034 J[b]	0.050 U	-	0.050 U	0.050 U	0.0019 U	0.050 U	0.050 U	0.050 U	-
alpha-Chlordane	ug/L	0.0031 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0031 U	0.050 U	0.050 U	0.050 U	-
beta-BHC	ug/L	0.0045 U	0.050 U	0.049 J[b]	-	0.050 U	0.050 U	0.0044 U	0.050 U	0.050 U	0.016 J	-
delta-BHC	ug/L	0.084 U	0.013 J	0.050 U	-	0.050 U	0.050 U	0.0041 U	0.050 U	0.050 U	0.050 U	-
Dieldrin	ug/L	0.0023 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0022 U	0.050 U	0.050 U	0.050 U	-
Endosulfan I	ug/L	0.0036 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0036 U	0.050 U	0.050 U	0.050 U	-
Endosulfan II	ug/L	0.0023 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0022 U	0.050 U	0.050 U	0.050 U	-
Endosulfan sulfate	ug/L	0.073 U	0.050 U	0.050 U	-	0.050 UJ	0.050 U	0.0036 U	0.050 U	0.050 U	0.050 U	-
Endrin	ug/L	0.0025 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0024 U	0.050 U	0.050 U	0.050 U	-
Endrin aldehyde	ug/L	0.090 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0044 U	0.050 U	0.050 U	0.050 U	-
Endrin ketone	ug/L	0.0039 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0038 U	0.050 U	0.050 U	0.050 U	-
gamma-BHC (lindane)	ug/L	0.049 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0024 U	0.050 U	0.050 U	0.050 U	-
gamma-Chlordane	ug/L	0.0049 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0048 U	0.050 U	0.050 U	0.050 U	-
Heptachlor	ug/L	0.0032 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0032 U	0.050 U	0.050 U	0.050 U	-
Heptachlor epoxide	ug/L	0.0025 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.0025 U	0.050 U	0.050 U	0.050 U	-
Methoxychlor	ug/L	0.0046 U	0.10 U	0.10 U	-	0.10 U	0.10 U	0.0045 U	0.10 U	0.10 U	0.10 UJ	-
Toxaphene	ug/L	0.057 U	2.0 U	2.0 U	-	2.0 U	2.0 U	0.056 U	2.0 U	2.0 U	2.0 U	-
Gases												
Ethane	ug/L	-	1.9	1.8 J	-	0.50 U	0.50 UJ	-	110 J	120 J	120	-
Ethene	ug/L	-	0.50 U	1.0 U	-	0.50 U	0.50 UJ	-	2.5 UJ	2.5 UJ	3.0	-
Methane	ug/L	-	1300	1800	-	40	25 J	-	5100 J	5200 J	4800	-
Herbicides												
2,4,5-T	ug/L	0.57 U	-	-	-	-	-	0.57 U	-	-	-	-
2,4,5-TP (Silvex)	ug/L	0.43 U	1.0 U	-	-	1.0 U	-	0.43 U	1.0 U	1.0 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	2.2 U	4.0 U	-	-	4.0 U	-	2.2 U	4.0 U	4.0 U	-	-
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	598000	573000	-	526000	527000	-	498000	499000	580000	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	33000	111000	135000	-	88300	74700	110000	56800	57600	77400	-
Cyanide (total)	ug/L	6 U	12[b]	-	-	21[b]	-	6 U	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	17000	17000	-	8000	7000	-	7000	7000	7000	-

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Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-212**	**MW-215A**	**MW-215A**	**MW-215A**	**MW-217**	**MW-217**	**MW-217**	**MW-219**	**MW-219**	**MW-219**	**MW-219**
Sample ID:		**GW-38443-101718-AS-222**	**GW-38443-072409-GL-012**	**GW-38443-010510-DR-009**	**GW-38443-051315-AS-014**	**GW-38443-072809-GL-020**	**GW-38443-011210-NZ-030**	**GW-38443-101718-JC-217**	**GW-38443-011210-NZ-028**	**GW-38443-011210-NZ-029**	**GW-38443-041410-GL-011**	**GW-38443-051315-GL-013**
Sample Date:		**10/17/2018**	**7/24/2009**	**1/5/2010**	**5/13/2015**	**7/28/2009**	**1/12/2010**	**10/17/2018**	**1/12/2010**	**1/12/2010**	**4/14/2010**	**5/13/2015**
Sample Depth:		**46-56 ft BGS**	**19-29 ft BGS**	**19-29 ft BGS**	**19-29 ft BGS**	**45-50 ft BGS**	**45-50 ft BGS**	**45-50 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Hardness	ug/L	-	571000	615000	-	673000	667000	-	505000	496000	-	-
Nitrate (as N)	ug/L	14 U	100 UJ	100 U	-	200	100	14 U	100 UJ	100 UJ	100 U	-
Nitrite (as N)	ug/L	14 U	100 UJ	100 U	-	100 U	100 U	14 U	100 UJ	100 UJ	100 U	-
Sulfate	ug/L	37000	47200	74800	-	172000	165000	150000	1300 U	1000 U	10300	-
Sulfide (acid soluble)	ug/L	-	3000 U	3000 U	-	3000 U	-	-	-	-	3000 U	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-225	MW-225	MW-227	MW-227	MW-227	MW-227	MW-228	MW-229	MW-229	MW-229	MW-230
Sample ID:		GW-38443-041410-GL-016	GW-38443-100517-DA-012	GW-38443-041410-GL-013	GW-38443-041410-GL-014	GW-38443-100417-DA-004	GW-38443-100417-DA-005	GW-38443-041510-GL-018	GW-38443-041510-NZ-019	GW-38443-051415-AS-018	GW-38443-051415-AS-019	GW-38443-101718-JC-221
Sample Date:		4/14/2010	10/5/2017	4/14/2010	4/14/2010	10/4/2017	10/4/2017	4/15/2010	4/15/2010	5/14/2015	5/14/2015	10/17/2018
Sample Depth:		17-27 ft BGS	17-27 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	19-29 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	27-37 ft BGS
					Duplicate		Duplicate				Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.24 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	0.32 U	1.0 UJ	1.0 UJ	0.32 U	0.32 U	1.0 UJ	2.9 UJ	4.0 U	2.5 U	0.13 U
1,1,2-Trichloroethane	ug/L	1.0 U	0.34 U	1.0 U	1.0 U	0.34 U	0.34 U	1.0 U	2.9 U	4.0 U	2.5 U	0.090 U
1,1-Dichloroethane	ug/L	1.0 UJ	0.25 U	1.0 UJ	1.0 UJ	0.25 U	0.25 U	2.0 J	2.9 UJ	4.0 U	2.5 U	0.17 U
1,1-Dichloroethene	ug/L	1.0 U	0.27 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	2.9 U	4.0 U	2.5 U	0.19 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	0.27 UJ	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	2.9 U	4.0 U	2.5 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	0.0084 U	2.0 U	2.0 U	0.0096 NJ[b]	0.0084 U	2.0 U	5.7 U	8.0 U	5.0 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	0.0071 U	1.0 U	1.0 U	0.0071 U	0.0071 U	1.0 U	2.9 U	4.0 U	2.5 U	0.0087 U
1,2-Dichlorobenzene	ug/L	1.0 U	0.26 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	2.9 U	4.0 U	2.5 U	0.27 J
1,2-Dichloroethane	ug/L	1.0 UJ	0.30 U	1.0 UJ	1.0 UJ	0.30 U	0.30 U	1.0 UJ	2.9 UJ	4.0 U	2.5 U	0.21 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	0.30 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	2.9 U	4.0 U	2.5 U	0.15 U
1,3-Dichlorobenzene	ug/L	1.0 U	0.32 U	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U	2.9 U	4.0 U	2.5 U	0.15 U
1,4-Dichlorobenzene	ug/L	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.16 J
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 UJ	1.2 J	10 UJ	10 UJ	1.0 U	1.0 U	10 UJ	29 UJ	40 U	25 U	1.2 U
2-Hexanone	ug/L	10 UJ	1.2 U	10 UJ	10 UJ	1.2 U	1.2 U	10 UJ	29 UJ	40 U	25 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 UJ	0.71 U	10 UJ	10 UJ	0.71 U	0.71 U	10 UJ	29 UJ	40 U	25 U	0.42 U
Acetone	ug/L	10 UJ	9.7 J	10 UJ	10 UJ	3.0 J	1.8 U	10 UJ	29 UJ	40 U	25 UJ	5.4 U
Benzene	ug/L	1.0 U	0.28 U	1.0 U	1.0 U	0.28 U	0.28 U	1.0 U	2.9 U	4.0 U	2.5 U	4.4[b]
Bromodichloromethane	ug/L	1.0 U	0.30 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	2.9 U	4.0 U	2.5 U	0.17 U
Bromoform	ug/L	1.0 U	0.43 U	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	2.9 U	4.0 U	2.5 U	0.76 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	0.42 UJ	1.0 U	1.0 U	0.42 U	0.42 U	1.0 U	2.9 U	4.0 UJ	2.5 U	0.42 U
Carbon disulfide	ug/L	1.0 U	0.34 U	1.0 U	1.0 U	0.34 U	0.34 U	1.0 U	2.9 U	4.0 U	2.5 U	0.28 U
Carbon tetrachloride	ug/L	1.0 U	0.35 U	1.0 U	1.0 U	0.35 U	0.35 U	1.0 U	2.9 U	4.0 U	2.5 U	0.26 U
Chlorobenzene	ug/L	1.0 U	0.32 U	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U	2.9 U	4.0 U	2.5 U	2.2
Chloroethane	ug/L	1.0 U	0.41 U	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U	2.9 U	4.0 U	2.5 U	0.83 U
Chloroform (Trichloromethane)	ug/L	1.0 U	0.59 J[b]	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U	2.9 U	4.0 U	2.5 U	0.13 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	0.43 U	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	2.9 U	4.0 U	2.5 U	0.20 U
cis-1,2-Dichloroethene	ug/L	0.51 J	0.30 U	0.98 J	1.1	2.6	2.6	1.6	12[b]	9.8[b]	8.7[b]	2.0 U
cis-1,3-Dichloropropene	ug/L	1.0 U	0.26 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	2.9 U	4.0 U	2.5 U	0.61 U
Cyclohexane	ug/L	1.0 U	0.44 U	0.59 J	0.59 J	0.44 U	0.44 U	1.0 U	2.9 U	4.0 U	2.5 U	0.24 U
Dibromochloromethane	ug/L	1.0 U	0.25 U	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	2.9 U	4.0 U	2.5 U	0.39 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	0.50 U	1.0 UJ	1.0 UJ	0.50 U	0.50 U	1.0 UJ	2.9 UJ	4.0 U	2.5 U	0.35 U
Ethylbenzene	ug/L	1.0 U	0.26 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	2.9 U	4.0 U	2.5 U	0.11 U
Isopropyl benzene	ug/L	1.0 U	0.21 U	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	2.9 U	4.0 U	2.5 U	0.090 U
m&p-Xylenes	ug/L	-	0.24 U	-	-	0.24 U	0.24 U	-	-	-	-	0.15 J
Methyl acetate	ug/L	10 UJ	1.4 U	10 UJ	10 UJ	1.4 U	1.4 U	10 UJ	29 UJ	40 U	25 U	1.7 U
Methyl cyclohexane	ug/L	1.0 U	0.45 U	1.0 U	1.0 U	0.45 U	0.45 U	1.0 U	2.9 U	4.0 U	2.5 U	0.33 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	0.27 U	0.45 J	0.49 J	0.27 U	0.27 U	5.0 U	14 U	4.0 U	2.5 U	0.070 U
Methylene chloride	ug/L	1.0 U	0.53 U	1.0 U	1.0 U	0.53 U	0.53 U	1.0 U	2.9 U	4.0 U	2.5 U	2.6 U
o-Xylene	ug/L	-	0.28 U	-	-	0.28 U	0.28 U	-	-	-	-	0.25 J
Styrene	ug/L	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.10 U
Tetrachloroethene	ug/L	1.0 UJ	0.30 U	1.0 UJ	1.0 UJ	0.30 U	0.30 U	1.0 UJ	2.9 UJ	4.0 U	2.5 U	0.15 U
Toluene	ug/L	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.14 U
trans-1,2-Dichloroethene	ug/L	1.0 U	0.29 U	1.0 U	1.0 U	0.29 U	0.29 U	1.0 U	2.9 U	4.0 U	2.5 U	0.19 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	0.31 U	1.0 UJ	1.0 UJ	0.31 U	0.31 U	1.0 UJ	2.9 UJ	4.0 U	2.5 U	0.67 U
Trichloroethene	ug/L	1.0 U	0.33 U	1.0 U	1.0 U	0.33 U	0.33 U	1.0 U	70[ab]	85[ab]	73[ab]	0.10 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	0.50 U	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U	2.9 U	4.0 U	2.5 U	0.45 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	0.41 U	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U	2.9 U	4.0 U	2.5 U	0.41 U
Vinyl chloride	ug/L	1.0 U	0.45 U	0.55 J[b]	0.47 J[b]	0.45 U	0.45 U	6.3[ab]	2.9 U	4.0 U	2.5 U	0.20 U
Xylenes (total)	ug/L	2.0 U	0.24 U	2.0 U	2.0 U	0.24 U	0.24 U	2.0 U	5.7 U	8.0 U	5.0 U	0.40 J
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	0.38 U	-	-	0.43 U	0.40 U	-	-	-	-	0.55 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-225	MW-225	MW-227	MW-227	MW-227	MW-227	MW-228	MW-229	MW-229	MW-229	MW-230
Sample ID:		GW-38443-041410-GL-016	GW-38443-100517-DA-012	GW-38443-041410-GL-013	GW-38443-041410-GL-014	GW-38443-100417-DA-004	GW-38443-100417-DA-005	GW-38443-041510-GL-018	GW-38443-041510-NZ-019	GW-38443-051415-AS-018	GW-38443-051415-AS-019	GW-38443-101718-JC-221
Sample Date:		4/14/2010	10/5/2017	4/14/2010	4/14/2010	10/4/2017	10/4/2017	4/15/2010	4/15/2010	5/14/2015	5/14/2015	10/17/2018
Sample Depth:		17-27 ft BGS	17-27 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	19-29 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	27-37 ft BGS
					Duplicate		Duplicate				Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4,5-Trichlorophenol	ug/L	-	0.29 U	-	-	0.32 U	0.30 U	-	-	-	-	2.0 U
2,4,6-Trichlorophenol	ug/L	-	0.23 U	-	-	0.26 U	0.24 U	-	-	-	-	1.8 U
2,4-Dichlorophenol	ug/L	-	0.18 U	-	-	0.20 U	0.19 U	-	-	-	-	0.26 U
2,4-Dimethylphenol	ug/L	-	0.24 U	-	-	0.27 U	0.25 U	-	-	-	-	0.51 U
2,4-Dinitrophenol	ug/L	-	0.30 U	-	-	0.34 U	0.32 U	-	-	-	-	6.1 U
2,4-Dinitrotoluene	ug/L	-	0.24 U	-	-	0.27 U	0.25 U	-	-	-	-	2.0 U
2,6-Dinitrotoluene	ug/L	-	0.76 U	-	-	0.86 U	0.81 U	-	-	-	-	2.1 U
2-Chloronaphthalene	ug/L	-	0.095 U	-	-	0.11 U	0.10 U	-	-	-	-	0.48 U
2-Chlorophenol	ug/L	-	0.28 U	-	-	0.31 U	0.29 U	-	-	-	-	0.27 U
2-Methylnaphthalene	ug/L	-	0.086 U	-	-	0.097 U	0.091 U	-	-	-	-	0.11 U
2-Methylphenol	ug/L	-	0.16 U	-	-	0.18 U	0.17 U	-	-	-	-	0.21 U
2-Nitroaniline	ug/L	-	0.20 U	-	-	0.23 U	0.21 U	-	-	-	-	0.50 U
2-Nitrophenol	ug/L	-	0.27 U	-	-	0.30 U	0.28 U	-	-	-	-	0.56 U
3&4-Methylphenol	ug/L	-	0.76 U	-	-	0.86 U	0.81 U	-	-	-	-	0.19 U
3,3'-Dichlorobenzidine	ug/L	-	0.35 U	-	-	0.40 U	0.37 U	-	-	-	-	1.1 U
3-Nitroaniline	ug/L	-	0.27 U	-	-	0.30 U	0.28 U	-	-	-	-	0.56 U
4,6-Dinitro-2-methylphenol	ug/L	-	2.3 U	-	-	2.6 U	2.4 U	-	-	-	-	2.8 U
4-Bromophenyl phenyl ether	ug/L	-	0.21 U	-	-	0.24 U	0.22 U	-	-	-	-	0.49 U
4-Chloro-3-methylphenol	ug/L	-	0.20 U	-	-	0.23 U	0.21 U	-	-	-	-	0.29 U
4-Chloroaniline	ug/L	-	0.20 U	-	-	0.23 U	0.21 U	-	-	-	-	0.31 U
4-Chlorophenyl phenyl ether	ug/L	-	0.29 U	-	-	0.32 U	0.30 U	-	-	-	-	0.55 U
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	0.21 U	-	-	0.24 U	0.22 U	-	-	-	-	0.91 U
4-Nitrophenol	ug/L	-	0.28 U	-	-	0.31 U	0.29 U	-	-	-	-	2.2 U
Acenaphthene	ug/L	-	0.042 U	-	-	0.048 U	0.045 U	-	-	-	-	0.17 U
Acenaphthylene	ug/L	-	0.046 U	-	-	0.052 U	0.049 U	-	-	-	-	0.12 U
Acetophenone	ug/L	-	0.32 U	-	-	0.37 U	0.34 U	-	-	-	-	0.36 U
Anthracene	ug/L	-	0.084 U	-	-	0.095 U	0.089 U	-	-	-	-	0.13 U
Atrazine	ug/L	-	0.32 U	-	-	0.37 U	0.34 U	-	-	-	-	0.94 U
Benzaldehyde	ug/L	-	0.37 U	-	-	0.42 U	0.39 U	-	-	-	-	0.75 U
Benzo(a)anthracene	ug/L	-	0.028 U	-	-	0.032 U	0.030 U	-	-	-	-	0.17 U
Benzo(a)pyrene	ug/L	-	0.049 U	-	-	0.055 U	0.052 U	-	-	-	-	0.17 U
Benzo(b)fluoranthene	ug/L	-	0.038 U	-	-	0.042 U	0.040 U	-	-	-	-	0.15 U
Benzo(g,h,i)perylene	ug/L	-	0.044 U	-	-	0.050 U	0.047 U	-	-	-	-	0.18 U
Benzo(k)fluoranthene	ug/L	-	0.043 U	-	-	0.048 U	0.045 U	-	-	-	-	0.14 U
Biphenyl (1,1-Biphenyl)	ug/L	-	0.12 U	-	-	0.14 U	0.13 U	-	-	-	-	0.49 U
bis(2-Chloroethoxy)methane	ug/L	-	0.30 U	-	-	0.34 U	0.32 U	-	-	-	-	0.45 U
bis(2-Chloroethyl)ether	ug/L	-	0.095 U	-	-	0.11 U	0.10 U	-	-	-	-	0.40 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	1.6 U	-	-	1.8 U	1.7 U	-	-	-	-	2.2 U
Butyl benzylphthalate (BBP)	ug/L	-	0.25 U	-	-	0.28 U	0.26 U	-	-	-	-	0.66 U
Caprolactam	ug/L	-	0.49 J	-	-	0.22 U	0.20 U	-	-	-	-	0.92 U
Carbazole	ug/L	-	0.27 U	-	-	0.30 U	0.28 U	-	-	-	-	0.49 U
Chrysene	ug/L	-	0.048 U	-	-	0.054 U	0.051 U	-	-	-	-	0.18 U
Dibenz(a,h)anthracene	ug/L	-	0.042 U	-	-	0.048 U	0.045 U	-	-	-	-	0.15 U
Dibenzofuran	ug/L	-	0.019 U	-	-	0.022 U	0.020 U	-	-	-	-	0.56 U
Diethyl phthalate	ug/L	-	0.57 U	-	-	0.65 U	0.61 U	-	-	-	-	3.8 U
Dimethyl phthalate	ug/L	-	0.28 U	-	-	0.31 U	0.29 U	-	-	-	-	0.51 U
Di-n-butylphthalate (DBP)	ug/L	-	1.6 U	-	-	1.8 U	1.7 U	-	-	-	-	1.8 U
Di-n-octyl phthalate (DnOP)	ug/L	-	0.22 U	-	-	0.25 U	0.23 U	-	-	-	-	0.81 U
Fluoranthene	ug/L	-	0.042 U	-	-	0.048 U	0.045 U	-	-	-	-	0.16 U
Fluorene	ug/L	-	0.039 U	-	-	0.044 U	0.041 U	-	-	-	-	0.17 U
Hexachlorobenzene	ug/L	-	0.081 U	-	-	0.092 U	0.086 U	-	-	-	-	0.16 U
Hexachlorobutadiene	ug/L	-	0.26 U	-	-	0.29 U	0.27 U	-	-	-	-	0.54 U
Hexachlorocyclopentadiene	ug/L	-	0.23 U	-	-	0.26 UJ	0.24 UJ	-	-	-	-	1.7 U
Hexachloroethane	ug/L	-	0.18 U	-	-	0.20 U	0.19 U	-	-	-	-	0.39 U
Indeno(1,2,3-cd)pyrene	ug/L	-	0.041 U	-	-	0.047 U	0.044 U	-	-	-	-	0.13 U
Isophorone	ug/L	-	0.26 U	-	-	0.29 U	0.27 U	-	-	-	-	0.32 U

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Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-225	MW-225	MW-227	MW-227	MW-227	MW-227	MW-228	MW-229	MW-229	MW-229	MW-230
Sample ID:		GW-38443-041410-GL-016	GW-38443-100517-DA-012	GW-38443-041410-GL-013	GW-38443-041410-GL-014	GW-38443-100417-DA-004	GW-38443-100417-DA-005	GW-38443-041510-GL-018	GW-38443-041510-NZ-019	GW-38443-051415-AS-018	GW-38443-051415-AS-019	GW-38443-101718-JC-221
Sample Date:		4/14/2010	10/5/2017	4/14/2010	4/14/2010	10/4/2017	10/4/2017	4/15/2010	4/15/2010	5/14/2015	5/14/2015	10/17/2018
Sample Depth:		17-27 ft BGS	17-27 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	19-29 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	27-37 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD
Parameters	**Units**											
Naphthalene	ug/L	-	0.060 U	-	-	0.067 U	0.063 U	-	-	-	-	0.11 U
Nitrobenzene	ug/L	-	0.038 U	-	-	0.043 U	0.040 U	-	-	-	-	0.51 U
N-Nitrosodi-n-propylamine	ug/L	-	0.23 U	-	-	0.26 U	0.24 U	-	-	-	-	0.25 U
N-Nitrosodiphenylamine	ug/L	-	0.30 U	-	-	0.33 U	0.31 U	-	-	-	-	0.44 U
Pentachlorophenol	ug/L	-	0.26 U	-	-	0.29 U	0.27 U	-	-	-	-	3.1 U
Phenanthrene	ug/L	-	0.059 U	-	-	0.067 U	0.063 U	-	-	-	-	0.17 U
Phenol	ug/L	-	0.57 U	-	-	0.65 U	0.61 U	-	-	-	-	0.13 U
Pyrene	ug/L	-	0.040 U	-	-	0.045 U	0.042 U	-	-	-	-	0.17 U
Metals												
Aluminum	ug/L	-	34 U	-	-	34 U	34 U	-	-	-	-	2100[b]
Aluminum (dissolved)	ug/L	-	34 U	-	-	34 U	34 U	-	-	-	-	78
Antimony	ug/L	-	0.57 U	-	-	0.57 U	0.57 U	-	-	-	-	0.57 U
Antimony (dissolved)	ug/L	-	0.57 U	-	-	0.57 U	0.57 U	-	-	-	-	0.57 U
Arsenic	ug/L	-	1.4 J[b]	-	-	13[ab]	16[ab]	-	-	-	-	4.2 J[b]
Arsenic (dissolved)	ug/L	-	1.4 J[b]	-	-	13[ab]	16[ab]	-	-	-	-	2.1 J[b]
Barium	ug/L	-	190	-	-	240	240	-	-	-	-	2000[b]
Barium (dissolved)	ug/L	-	190	-	-	240	240	-	-	-	-	1900[b]
Beryllium	ug/L	-	0.31 U	-	-	0.56 J	1.6	-	-	-	-	0.31 U
Beryllium (dissolved)	ug/L	-	0.31 U	-	-	0.32 J	0.31 U	-	-	-	-	0.31 U
Cadmium	ug/L	-	0.21 U	-	-	0.34 J	0.46 J	-	-	-	-	0.21 U
Cadmium (dissolved)	ug/L	-	0.21 U	-	-	0.21 U	0.21 U	-	-	-	-	0.21 U
Calcium	ug/L	-	110000	-	-	140000	140000	-	-	-	-	170000
Calcium (dissolved)	ug/L	-	110000	-	-	140000	140000	-	-	-	-	150000
Chromium	ug/L	-	0.98 U	-	-	0.98 U	0.98 U	-	-	-	-	4.3
Chromium (dissolved)	ug/L	-	0.98 U	-	-	0.98 U	0.98 U	-	-	-	-	0.98 U
Cobalt	ug/L	-	0.19 U	-	-	0.80 J[b]	1.1[b]	-	-	-	-	8.4[b]
Cobalt (dissolved)	ug/L	-	0.19 U	-	-	0.64 J[b]	0.59 J	-	-	-	-	7.0[b]
Copper	ug/L	-	1.9 J	-	-	1.7 U	1.7 U	-	-	-	-	17
Copper (dissolved)	ug/L	-	2.0	-	-	1.7 U	1.7 U	-	-	-	-	1.8 J
Iron	ug/L	-	47 U	-	-	8600[b]	8100[b]	-	-	-	-	3700[b]
Iron (dissolved)	ug/L	-	47 U	-	-	8400[b]	8200[b]	-	-	-	-	820
Lead	ug/L	-	0.45 U	-	-	0.58 J	0.84 J	-	-	-	-	3.4
Lead (dissolved)	ug/L	-	0.45 U	-	-	0.45 U	0.45 U	-	-	-	-	0.45 U
Magnesium	ug/L	-	20000	-	-	53000	55000	-	-	-	-	53000
Magnesium (dissolved)	ug/L	-	20000	-	-	53000	55000	-	-	-	-	48000
Manganese	ug/L	-	11	-	-	170[b]	180[b]	-	-	-	-	2600[b]
Manganese (dissolved)	ug/L	-	11	-	-	170[b]	170[b]	-	-	-	-	2400[b]
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	0.13 U	-	-	0.13 U	0.13 U	-	-	-	-	0.13 U
Mercury (dissolved)	ug/L	-	0.13 U	-	-	0.13 U	0.13 U	-	-	-	-	0.13 U
Nickel	ug/L	-	1.5 U	-	-	1.5 U	1.5 U	-	-	-	-	26
Nickel (dissolved)	ug/L	-	1.5 U	-	-	1.5 U	1.5 U	-	-	-	-	22
Potassium	ug/L	-	6000	-	-	12000	12000	-	-	-	-	12000
Potassium (dissolved)	ug/L	-	6100	-	-	11000	12000	-	-	-	-	11000
Selenium	ug/L	-	5.7	-	-	0.89 U	0.89 U	-	-	-	-	0.89 U
Selenium (dissolved)	ug/L	-	5.8	-	-	0.89 U	0.89 U	-	-	-	-	0.89 U
Silver	ug/L	-	0.053 U	-	-	0.053 U	0.053 U	-	-	-	-	0.053 U
Silver (dissolved)	ug/L	-	0.053 U	-	-	0.053 U	0.053 U	-	-	-	-	0.053 U
Sodium	ug/L	-	49000	-	-	78000	80000	-	-	-	-	68000
Sodium (dissolved)	ug/L	-	51000	-	-	78000	80000	-	-	-	-	65000
Thallium	ug/L	-	0.20 U	-	-	0.20 U	0.63 J[b]	-	-	-	-	0.70 J[b]
Thallium (dissolved)	ug/L	-	0.20 U	-	-	0.20 U	0.20 U	-	-	-	-	0.57 J[b]

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-225	MW-225	MW-227	MW-227	MW-227	MW-227	MW-228	MW-229	MW-229	MW-229	MW-230
Sample ID:		GW-38443-041410-GL-016	GW-38443-100517-DA-012	GW-38443-041410-GL-013	GW-38443-041410-GL-014	GW-38443-100417-DA-004	GW-38443-100417-DA-005	GW-38443-041510-GL-018	GW-38443-041510-NZ-019	GW-38443-051415-AS-018	GW-38443-051415-AS-019	GW-38443-101718-JC-221
Sample Date:		4/14/2010	10/5/2017	4/14/2010	4/14/2010	10/4/2017	10/4/2017	4/15/2010	4/15/2010	5/14/2015	5/14/2015	10/17/2018
Sample Depth:		17-27 ft BGS	17-27 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	19-29 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	27-37 ft BGS
					Duplicate		Duplicate				Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Vanadium	ug/L	-	0.82 U	-	-	0.82 U	0.82 U	-	-	-	-	5.3
Vanadium (dissolved)	ug/L	-	0.82 U	-	-	0.82 U	0.82 U	-	-	-	-	0.82 U
Zinc	ug/L	-	15 U	-	-	15 U	15 U	-	-	-	-	26
Zinc (dissolved)	ug/L	-	15 U	-	-	15 U	15 U	-	-	-	-	15 U
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	0.051 U	-	-	0.050 U	0.051 U	-	-	-	-	0.055 U
Aroclor-1221 (PCB-1221)	ug/L	-	0.092 U	-	-	0.090 U	0.091 U	-	-	-	-	0.056 U
Aroclor-1232 (PCB-1232)	ug/L	-	0.071 U	-	-	0.070 U	0.071 U	-	-	-	-	0.073 U
Aroclor-1242 (PCB-1242)	ug/L	-	0.061 U	-	-	0.060 U	0.061 U	-	-	-	-	0.075 U
Aroclor-1248 (PCB-1248)	ug/L	-	0.051 U	-	-	0.050 U	0.051 U	-	-	-	-	0.050 U
Aroclor-1254 (PCB-1254)	ug/L	-	0.031 U	-	-	0.030 U	0.030 U	-	-	-	-	0.040 U
Aroclor-1260 (PCB-1260)	ug/L	-	0.041 U	-	-	0.040 U	0.040 U	-	-	-	-	0.046 U
Pesticides												
4,4'-DDD	ug/L	-	0.017 U	-	-	0.019 U	0.020 U	-	-	-	-	0.0052 U
4,4'-DDE	ug/L	-	0.012 U	-	-	0.013 U	0.013 U	-	-	-	-	0.0043 U
4,4'-DDT	ug/L	-	0.017 U	-	-	0.018 U	0.018 U	-	-	-	-	0.0048 U
Aldrin	ug/L	-	0.013 U	-	-	0.014 U	0.014 U	-	-	-	-	0.0024 U
alpha-BHC	ug/L	-	0.014 U	-	-	0.015 U	0.015 U	-	-	-	-	0.0020 U
alpha-Chlordane	ug/L	-	0.012 U	-	-	0.013 U	0.013 U	-	-	-	-	0.0032 U
beta-BHC	ug/L	-	0.017 U	-	-	0.019 U	0.020 U	-	-	-	-	0.0046 U
delta-BHC	ug/L	-	0.028 U	-	-	0.031 U	0.032 U	-	-	-	-	0.0043 U
Dieldrin	ug/L	-	0.013 U	-	-	0.014 U	0.014 U	-	-	-	-	0.0023 U
Endosulfan I	ug/L	-	0.016 U	-	-	0.017 U	0.017 U	-	-	-	-	0.0037 U
Endosulfan II	ug/L	-	0.015 U	-	-	0.016 U	0.016 U	-	-	-	-	0.0023 U
Endosulfan sulfate	ug/L	-	0.015 U	-	-	0.016 U	0.016 U	-	-	-	-	0.0037 U
Endrin	ug/L	-	0.013 U	-	-	0.014 U	0.014 U	-	-	-	-	0.0025 U
Endrin aldehyde	ug/L	-	0.017 U	-	-	0.019 U	0.020 U	-	-	-	-	0.0046 U
Endrin ketone	ug/L	-	0.016 U	-	-	0.017 U	0.017 U	-	-	-	-	0.0040 U
gamma-BHC (lindane)	ug/L	-	0.013 U	-	-	0.014 U	0.014 U	-	-	-	-	0.0025 U
gamma-Chlordane	ug/L	-	0.013 U	-	-	0.014 U	0.014 U	-	-	-	-	0.0050 U
Heptachlor	ug/L	-	0.014 U	-	-	0.015 U	0.015 U	-	-	-	-	0.0033 U
Heptachlor epoxide	ug/L	-	0.015 U	-	-	0.016 U	0.016 U	-	-	-	-	0.0026 U
Methoxychlor	ug/L	-	0.013 U	-	-	0.014 U	0.014 U	-	-	-	-	0.0047 U
Toxaphene	ug/L	-	0.19 U	-	-	0.21 U	0.21 U	-	-	-	-	0.058 U
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	0.24 U	-	-	0.24 U	0.24 U	-	-	-	-	0.57 U
2,4,5-TP (Silvex)	ug/L	-	0.20 U	-	-	0.20 U	0.20 U	-	-	-	-	0.43 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	1.1 U	-	-	1.1 U	1.1 U	-	-	-	-	2.2 U
Petroleum Products												
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	63000	-	-	97000	97000	-	-	-	-	120000
Cyanide (total)	ug/L	-	5.0 U	-	-	5.0 U	5.0 U	-	-	-	-	6 U
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

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OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-225	MW-225	MW-227	MW-227	MW-227	MW-227	MW-228	MW-229	MW-229	MW-229	MW-230
Sample ID:		GW-38443-041410-GL-016	GW-38443-100517-DA-012	GW-38443-041410-GL-013	GW-38443-041410-GL-014	GW-38443-100417-DA-004	GW-38443-100417-DA-005	GW-38443-041510-GL-018	GW-38443-041510-NZ-019	GW-38443-051415-AS-018	GW-38443-051415-AS-019	GW-38443-101718-JC-221
Sample Date:		4/14/2010	10/5/2017	4/14/2010	4/14/2010	10/4/2017	10/4/2017	4/15/2010	4/15/2010	5/14/2015	5/14/2015	10/17/2018
Sample Depth:		17-27 ft BGS	17-27 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	19-29 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	27-37 ft BGS
					Duplicate		Duplicate				Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	1400	-	-	14 U	14 U	-	-	-	-	14 U
Nitrite (as N)	ug/L	-	14 U	-	-	14 U	14 U	-	-	-	-	14 U
Sulfate	ug/L	-	36000	-	-	70000	70000	-	-	-	-	15000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-233	MW-235	P-211	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-2	VAS-2
Sample ID:		GW-38443-101818-AS-225	GW-38443-101818-AS-224	GW-38443-100308-GL-019	GW-38443-110508-BW-101	GW-38443-110508-BW-102	GW-38443-110508-BW-103	GW-38443-110508-BW-104	GW-38443-110608-BW-105	GW-38443-010809-KMV-108	GW-38443-010909-KMV-109
Sample Date:		10/18/2018	10/18/2018	10/3/2008	11/5/2008	11/5/2008	11/5/2008	11/5/2008	11/6/2008	1/8/2009	1/9/2009
Sample Depth:		22-32 ft BGS	29-34 ft BGS	14-24 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	57-62 ft BGS	45-50 ft BGS	60-65 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	0.24 U	16 U	1.0 U	1.7	0.78 J	1.0 U	0.25 J	1.0 U	0.49 J	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	0.13 U	8.7 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	0.090 U	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.17 U	11 U	1.0 UJ	0.62 J	0.80 J	0.42 J	0.33 J	0.52 J	1.2	1.0 U
1,1-Dichloroethene	ug/L	0.19 U	13 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	0.26 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	0.15 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	0.21 U	14 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.15 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	0.15 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	0.16 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.2 U	77 U	0.66 J	1.1 J	0.61 J	10 U	10 U	10 U	0.96 J	10 U
2-Hexanone	ug/L	0.54 U	36 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.42 U	28 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Acetone	ug/L	5.4 U	360 U	10 UJ	10 U	10 U	10 U	10 U	10 U	3.6 J	10 U
Benzene	ug/L	0.13 U	8.7 U	**0.58 J[b]**	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	**0.54 J[b]**	1.0 U
Bromodichloromethane	ug/L	0.17 U	11 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	0.76 U	51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	0.42 U	28 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	0.28 U	19 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	0.26 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	0.14 U	9.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	0.83 U	55 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.13 U	8.7 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	0.20 U	13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.36 J	**1100[ab]**	0.26 J	3.6	**5.9[b]**	1.5	0.58 J	1.6	2.2	0.51 J
cis-1,3-Dichloropropene	ug/L	0.61 U	41 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Cyclohexane	ug/L	0.24 U	16 U	1.0 U	0.36 J	0.22 J	0.18 J	0.28 J	1.0 U	0.41 J	0.15 J
Dibromochloromethane	ug/L	0.39 U	26 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.35 U	23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	0.11 U	7.3 U	0.24 J	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U	0.24 J	1.0 U
Isopropyl benzene	ug/L	0.090 U	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	0.080 U	5.3 U	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	1.7 U	110 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	0.33 U	22 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	0.070 U	4.7 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.19 J	5.0 U
Methylene chloride	ug/L	2.6 U	170 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	0.090 U	6.0 U	-	-	-	-	-	-	-	-
Styrene	ug/L	0.10 U	6.7 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	0.31 J	10 U	1.0 U	0.36 J	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.14 U	9.3 U	1.6	0.52 J	0.38 J	0.39 J	0.82 J	0.25 J	1.0	0.54 J
trans-1,2-Dichloroethene	ug/L	0.19 U	13 U	1.0 U	0.19 J	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	0.67 U	45 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Trichloroethene	ug/L	**1.9[b]**	6.7 U	1.0 U	**2.1[b]**	**1.3[b]**	**0.54 J[b]**	**1.4[b]**	**1.4[b]**	**6.0[ab]**	**0.83 J[b]**
Trichlorofluoromethane (CFC-11)	ug/L	0.45 U	30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	27 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ
Vinyl chloride	ug/L	0.20 U	**620[ab]**	1.0 U	1.0 U	**1.3[b]**	**0.62 J[b]**	**0.41 J[b]**	**1.0[b]**	1.0 U	1.0 UJ
Xylenes (total)	ug/L	0.15 U	10 U	1.5 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.59 J	2.0 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	0.52 U	0.52 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U

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Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-233	MW-235	P-211	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-2	VAS-2
Sample ID:		GW-38443-101818-AS-225	GW-38443-101818-AS-224	GW-38443-100308-GL-019	GW-38443-110508-BW-101	GW-38443-110508-BW-102	GW-38443-110508-BW-103	GW-38443-110508-BW-104	GW-38443-110608-BW-105	GW-38443-010809-KMV-108	GW-38443-010909-KMV-109
Sample Date:		10/18/2018	10/18/2018	10/3/2008	11/5/2008	11/5/2008	11/5/2008	11/5/2008	11/6/2008	1/8/2009	1/9/2009
Sample Depth:		22-32 ft BGS	29-34 ft BGS	14-24 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	57-62 ft BGS	45-50 ft BGS	60-65 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	1.9 U	1.9 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	1.7 U	1.7 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	0.25 U	0.25 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
2,4-Dimethylphenol	ug/L	0.49 U	0.49 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
2,4-Dinitrophenol	ug/L	5.9 U	5.9 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	2.0 U	2.0 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	2.0 U	2.0 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	0.46 U	0.46 U	1.7 U	1.0 UJ	-	-	-	-	1.0 U	1.0 U
2-Chlorophenol	ug/L	0.26 U	0.26 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
2-Methylnaphthalene	ug/L	0.11 U	0.11 U	0.78	0.20 U	-	-	-	-	0.20 U	0.20 U
2-Methylphenol	ug/L	0.20 U	0.20 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
2-Nitroaniline	ug/L	0.49 U	0.49 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
2-Nitrophenol	ug/L	0.54 U	0.54 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
3&4-Methylphenol	ug/L	0.18 U	0.18 U	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	1.1 U	1.1 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
3-Nitroaniline	ug/L	0.54 U	0.54 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	2.7 U	2.7 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	0.48 U	0.48 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Chloro-3-methylphenol	ug/L	0.28 U	0.28 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Chloroaniline	ug/L	0.30 U	0.30 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Chlorophenyl phenyl ether	ug/L	0.52 U	0.52 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Methylphenol	ug/L	-	-	1.5 J	1.0 U	-	-	-	-	1.0 U	1.0 U
4-Nitroaniline	ug/L	0.87 U	0.87 U	3.3 U	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Nitrophenol	ug/L	2.1 U	2.1 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U
Acenaphthene	ug/L	0.16 U	0.16 U	1.2	0.20 U	-	-	-	-	0.44	0.20 U
Acenaphthylene	ug/L	0.12 U	0.12 U	0.33 U	0.20 U	-	-	-	-	0.20 U	0.20 U
Acetophenone	ug/L	0.35 U	0.35 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Anthracene	ug/L	0.13 U	0.13 U	1.3	0.20 U	-	-	-	-	0.52	0.20 U
Atrazine	ug/L	0.91 U	0.91 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Benzaldehyde	ug/L	0.72 U	0.72 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Benzo(a)anthracene	ug/L	0.16 U	0.16 U	**1.3[b]**	0.20 U	-	-	-	-	**0.68[b]**	**0.21[b]**
Benzo(a)pyrene	ug/L	0.16 U	0.16 U	**0.67[ab]**	0.20 U	-	-	-	-	**1.0[ab]**	**0.73[ab]**
Benzo(b)fluoranthene	ug/L	0.15 U	0.15 U	**0.92[b]**	0.20 U	-	-	-	-	**1.2[b]**	**0.81[b]**
Benzo(g,h,i)perylene	ug/L	0.17 U	0.17 U	0.43	0.20 U	-	-	-	-	0.90	0.20 U
Benzo(k)fluoranthene	ug/L	0.13 U	0.13 U	0.45	0.20 U	-	-	-	-	0.29	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	0.47 U	0.47 U	1.7 U	1.0 UJ	-	-	-	-	1.0 U	1.0 U
bis(2-Chloroethoxy)methane	ug/L	0.43 U	0.43 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
bis(2-Chloroethyl)ether	ug/L	0.38 U	0.38 U	1.7 UJ	1.0 U	-	-	-	-	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.1 U	2.1 U	3.3 U	0.85 J	-	-	-	-	1.5 J	1.8 J
Butyl benzylphthalate (BBP)	ug/L	0.63 U	0.63 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Caprolactam	ug/L	0.89 U	0.89 U	8.3 UJ	5.0 UJ	-	-	-	-	5.0 U	5.0 UJ
Carbazole	ug/L	0.47 U	0.47 U	3.3	1.0 U	-	-	-	-	1.0 U	1.0 U
Chrysene	ug/L	0.18 U	0.18 U	1.7	0.20 U	-	-	-	-	0.61	0.20
Dibenz(a,h)anthracene	ug/L	0.14 U	0.14 U	0.33 U	0.20 U	-	-	-	-	0.20 U	0.20 U
Dibenzofuran	ug/L	0.53 U	0.53 U	0.67 J	1.0 U	-	-	-	-	0.24 J	1.0 U
Diethyl phthalate	ug/L	3.6 U	3.6 U	1.7 U	1.0 U	-	-	-	-	1.2	1.0 U
Dimethyl phthalate	ug/L	0.49 U	0.49 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Di-n-butylphthalate (DBP)	ug/L	1.7 U	1.7 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	0.78 U	0.78 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Fluoranthene	ug/L	0.15 U	0.15 U	5.2	0.20 U	-	-	-	-	2.1	0.53
Fluorene	ug/L	0.16 U	0.16 U	1.1	0.20 U	-	-	-	-	0.29	0.20 U
Hexachlorobenzene	ug/L	0.15 U	0.15 U	0.33 U	0.20 U	-	-	-	-	0.20 U	0.20 U
Hexachlorobutadiene	ug/L	0.52 U	0.52 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	1.7 U	1.7 U	17 UJ	10 U	-	-	-	-	10 U	10 U
Hexachloroethane	ug/L	0.38 U	0.38 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.13 U	0.13 U	**0.40[b]**	0.20 U	-	-	-	-	**0.88[b]**	0.20 U
Isophorone	ug/L	0.31 U	0.31 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U

Table 1

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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-233	MW-235	P-211	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-2	VAS-2
Sample ID:		GW-38443-101818-AS-225	GW-38443-101818-AS-224	GW-38443-100308-GL-019	GW-38443-110508-BW-101	GW-38443-110508-BW-102	GW-38443-110508-BW-103	GW-38443-110508-BW-104	GW-38443-110608-BW-105	GW-38443-010809-KMV-108	GW-38443-010909-KMV-109	
Sample Date:		10/18/2018	10/18/2018	10/3/2008	11/5/2008	11/5/2008	11/5/2008	11/5/2008	11/6/2008	1/8/2009	1/9/2009	
Sample Depth:		22-32 ft BGS	29-34 ft BGS	14-24 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	57-62 ft BGS	45-50 ft BGS	60-65 ft BGS	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	
Parameters	**Units**											
Naphthalene	ug/L	0.10 U	0.10 U	2.6[b]	0.20 U	-	-	-	-	0.20 U	0.20 U	
Nitrobenzene	ug/L	0.49 U	0.49 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U	
N-Nitrosodi-n-propylamine	ug/L	0.24 U	0.24 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U	
N-Nitrosodiphenylamine	ug/L	0.42 U	0.42 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U	
Pentachlorophenol	ug/L	3.0 U	3.0 U	8.3 U	5.0 U	-	-	-	-	5.0 U	5.0 U	
Phenanthrene	ug/L	0.16 U	0.16 U	5.9	0.20 U	-	-	-	-	1.7	0.48	
Phenol	ug/L	0.12 U	0.12 U	1.7 U	1.0 U	-	-	-	-	1.0 U	1.0 U	
Pyrene	ug/L	0.17 U	0.17 U	3.9	0.20 U	-	-	-	-	1.5	0.41	
Metals												
Aluminum	ug/L	34 U	46 J	8130[b]	-	-	-	-	-	-	-	
Aluminum (dissolved)	ug/L	34 U	34 U	-	-	-	-	-	-	-	-	
Antimony	ug/L	3.0[b]	0.57 U	6.7[ab]	-	-	-	-	-	-	-	
Antimony (dissolved)	ug/L	3.1[b]	0.57 U	-	-	-	-	-	-	-	-	
Arsenic	ug/L	0.75 U	3.2 J[b]	47.6[ab]	76.1[ab]	121[ab]	213[ab]	128[ab]	3.7 J[b]	182[ab]	183[ab]	
Arsenic (dissolved)	ug/L	0.75 U	3.0 J[b]	-	-	-	-	-	-	-	-	
Barium	ug/L	200	190	163 J	-	-	-	-	-	-	-	
Barium (dissolved)	ug/L	200	180	-	-	-	-	-	-	-	-	
Beryllium	ug/L	0.31 U	0.63 J	5.0 U	-	-	-	-	-	-	-	
Beryllium (dissolved)	ug/L	0.31 U	0.86 J	-	-	-	-	-	-	-	-	
Cadmium	ug/L	0.21 U	0.21 U	0.28 J	-	-	-	-	-	-	-	
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	-	-	-	-	-	-	-	-	
Calcium	ug/L	97000	130000	20500	-	-	-	-	-	-	-	
Calcium (dissolved)	ug/L	98000	130000	-	-	-	-	-	-	-	-	
Chromium	ug/L	0.98 U	1.8 J	11.3	-	-	-	-	-	-	-	
Chromium (dissolved)	ug/L	0.98 U	0.98 U	-	-	-	-	-	-	-	-	
Cobalt	ug/L	0.30 J	1.0[b]	6.5 J[b]	-	-	-	-	-	-	-	
Cobalt (dissolved)	ug/L	0.29 J	0.92 J[b]	-	-	-	-	-	-	-	-	
Copper	ug/L	1.8 J	1.7 U	26.9	-	-	-	-	-	-	-	
Copper (dissolved)	ug/L	4.5 J	1.7 U	-	-	-	-	-	-	-	-	
Iron	ug/L	56 J	6900[b]	9330[b]	-	-	-	-	-	-	-	
Iron (dissolved)	ug/L	47 U	6700[b]	-	-	-	-	-	-	-	-	
Lead	ug/L	0.45 U	0.45 U	26.5[ab]	27.6[ab]	13.0	36.5[ab]	35.7[ab]	2.4	515[ab]	432[ab]	
Lead (dissolved)	ug/L	0.45 U	0.45 U	-	-	-	-	-	-	-	-	
Magnesium	ug/L	37000	55000	4330 J	-	-	-	-	-	-	-	
Magnesium (dissolved)	ug/L	37000	54000	-	-	-	-	-	-	-	-	
Manganese	ug/L	2.5 J	100[b]	166[b]	-	-	-	-	-	-	-	
Manganese (dissolved)	ug/L	2.1 U	100[b]	-	-	-	-	-	-	-	-	
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	
Mercury	ug/L	0.13 U	0.13 U	0.20 U	-	-	-	-	-	-	-	
Mercury (dissolved)	ug/L	0.13 U	0.13 U	-	-	-	-	-	-	-	-	
Nickel	ug/L	1.5 U	2.1	17.1 J	-	-	-	-	-	-	-	
Nickel (dissolved)	ug/L	1.5 U	1.5 U	-	-	-	-	-	-	-	-	
Potassium	ug/L	8300	15000	10900	-	-	-	-	-	-	-	
Potassium (dissolved)	ug/L	8300	15000	-	-	-	-	-	-	-	-	
Selenium	ug/L	1.8 J	0.89 U	5.0 U	-	-	-	-	-	-	-	
Selenium (dissolved)	ug/L	1.9 J	0.89 U	-	-	-	-	-	-	-	-	
Silver	ug/L	0.053 U	0.053 U	1.0 U	-	-	-	-	-	-	-	
Silver (dissolved)	ug/L	0.053 U	0.053 U	-	-	-	-	-	-	-	-	
Sodium	ug/L	28000	78000	64400	-	-	-	-	-	-	-	
Sodium (dissolved)	ug/L	28000	76000	-	-	-	-	-	-	-	-	
Thallium	ug/L	0.20 U	0.20 U	1.0 U	-	-	-	-	-	-	-	
Thallium (dissolved)	ug/L	0.20 U	0.20 U	-	-	-	-	-	-	-	-	

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Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	0.82 U	0.82 U	24.2 J[b]	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	0.82 U	0.82 U	-	-	-	-	-	-	-	-
Zinc	ug/L	15 U	15 U	86.6	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	15 U	15 U	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	0.057 U	0.054 U	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	0.058 U	0.055 U	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	0.076 U	0.072 U	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	0.078 U	0.074 U	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	0.051 U	0.049 U	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	0.041 U	0.039 U	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	0.047 U	0.045 U	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	0.0054 U	0.0051 U	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	0.0044 U	0.0042 U	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	0.0049 U	0.0047 U	-	-	-	-	-	-	-	-
Aldrin	ug/L	0.0024 U	0.0023 U	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	0.0020 U	0.0019 U	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	0.0033 U	0.0031 U	-	-	-	-	-	-	-	-
beta-BHC	ug/L	0.0047 U	0.0045 U	-	-	-	-	-	-	-	-
delta-BHC	ug/L	0.0044 U	0.0042 U	-	-	-	-	-	-	-	-
Dieldrin	ug/L	0.0023 U	0.0022 U	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	0.0038 U	0.0036 U	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	0.0023 U	0.0022 U	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	0.0038 U	0.0036 U	-	-	-	-	-	-	-	-
Endrin	ug/L	0.0026 U	0.0024 U	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	0.0047 U	0.0045 U	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	0.0041 U	0.0039 U	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	0.0026 U	0.0024 U	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	0.0051 U	0.0049 U	-	-	-	-	-	-	-	-
Heptachlor	ug/L	0.0034 U	0.0032 U	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	0.0027 U	0.0025 U	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	0.0048 U	0.0046 U	-	-	-	-	-	-	-	-
Toxaphene	ug/L	0.059 U	0.056 U	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	0.57 U	0.57 U	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	0.43 U	0.43 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	2.2 U	2.2 U	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	36000	100000	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	6 U	28[b]	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-233**	**MW-235**	**P-211**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-2**	**VAS-2**
Sample ID:		**GW-38443-101818-AS-225**	**GW-38443-101818-AS-224**	**GW-38443-100308-GL-019**	**GW-38443-110508-BW-101**	**GW-38443-110508-BW-102**	**GW-38443-110508-BW-103**	**GW-38443-110508-BW-104**	**GW-38443-110608-BW-105**	**GW-38443-010809-KMV-108**	**GW-38443-010909-KMV-109**
Sample Date:		**10/18/2018**	**10/18/2018**	**10/3/2008**	**11/5/2008**	**11/5/2008**	**11/5/2008**	**11/5/2008**	**11/6/2008**	**1/8/2009**	**1/9/2009**
Sample Depth:		**22-32 ft BGS**	**29-34 ft BGS**	**14-24 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**57-62 ft BGS**	**45-50 ft BGS**	**60-65 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	1300	14 U	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	14 U	14 U	-	-	-	-	-	-	-	-
Sulfate	ug/L	46000	76000	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-4	VAS-5	VAS-5
Sample ID:		GW-38443-111208-DD-114	GW-38443-111208-DD-115	GW-38443-111208-DD-116	GW-38443-111208-DD-117	GW-38443-111208-DD-118	GW-38443-111208-DD-119	GW-38443-111308-DD-120	GW-38443-110608-KMV-013	GW-38443-121508-KMV-088	GW-38443-121608-KMV-089
Sample Date:		11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/13/2008	11/6/2008	12/15/2008	12/16/2008
Sample Depth:		22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	25-30 ft BGS	5-10 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	17 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	17 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.63 J	1.0 U	17 U	0.36 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	33 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 J	17 U	0.21 J
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 J	17 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	170 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	170 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	170 U	10 U
Acetone	ug/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	7.4 J	21 J	10 U
Benzene	ug/L	0.44 J	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	17 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	17 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	17 U	0.68 J
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.83 J	17 U	0.26 J
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.8	5.3 J[b]	5.6[b]
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	1.0 U
Cyclohexane	ug/L	0.34 J	1.0 UJ	1.0 UJ	1.0 UJ	0.19 J	0.14 J	0.29 J	0.25 J	17 U	0.31 J
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	17 U	1.0 U
Ethylbenzene	ug/L	0.34 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.20 J	89[b]	0.45 J
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	36	0.18 J
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	170 U	10 U
Methyl cyclohexane	ug/L	0.65 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.96 J	17 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	0.21 J	0.30 J	0.33 J	0.34 J	5.0 U	5.0 U	5.0 U	5.0 U	83 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	17 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	17 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
Toluene	ug/L	1.2	0.20 J	1.0 U	1.0 U	0.58 J	0.41 J	0.50 J	1.1	9.7 J	0.45 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2[b]	0.31 J[b]	17 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	17 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J[b]	17 U	0.23 J[b]
Xylenes (total)	ug/L	0.72 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	0.57 J	14 J	0.62 J
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	1.0 UJ	-	-	-	-	-	20 U	4.0 U	1.0 UJ

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-4	VAS-5	VAS-5
Sample ID:		GW-38443-111208-DD-114	GW-38443-111208-DD-115	GW-38443-111208-DD-116	GW-38443-111208-DD-117	GW-38443-111208-DD-118	GW-38443-111208-DD-119	GW-38443-111308-DD-120	GW-38443-110608-KMV-013	GW-38443-121508-KMV-088	GW-38443-121608-KMV-089
Sample Date:		11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/13/2008	11/6/2008	12/15/2008	12/16/2008
Sample Depth:		22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	25-30 ft BGS	5-10 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
2,4-Dichlorophenol	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
2,4-Dinitrophenol	ug/L	5.0 UJ	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
2-Chloronaphthalene	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 UJ	4.0 U	1.0 U
2-Chlorophenol	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
2-Methylnaphthalene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	1.7	0.20 U
2-Methylphenol	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
2-Nitroaniline	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 UJ
2-Nitrophenol	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
3-Nitroaniline	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
4-Chloro-3-methylphenol	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
4-Chloroaniline	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
4-Chlorophenyl phenyl ether	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
4-Methylphenol	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
4-Nitroaniline	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
4-Nitrophenol	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
Acenaphthene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Acenaphthylene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Acetophenone	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Anthracene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Atrazine	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Benzaldehyde	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Benzo(a)anthracene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Benzo(a)pyrene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Benzo(b)fluoranthene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Benzo(g,h,i)perylene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Benzo(k)fluoranthene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 UJ	4.0 U	1.0 U
bis(2-Chloroethoxy)methane	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
bis(2-Chloroethyl)ether	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	2.0 U	-	-	-	-	-	40 U	8.0 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Caprolactam	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 UJ	20 UJ	5.0 UJ
Carbazole	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Chrysene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Dibenz(a,h)anthracene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Dibenzofuran	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Diethyl phthalate	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Dimethyl phthalate	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Di-n-butylphthalate (DBP)	ug/L	0.76 J	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Fluoranthene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Fluorene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Hexachlorobenzene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Hexachlorobutadiene	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	10 U	10 UJ	-	-	-	-	-	200 U	40 U	10 U
Hexachloroethane	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Isophorone	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-4	VAS-5	VAS-5
Sample ID:		GW-38443-111208-DD-114	GW-38443-111208-DD-115	GW-38443-111208-DD-116	GW-38443-111208-DD-117	GW-38443-111208-DD-118	GW-38443-111208-DD-119	GW-38443-111308-DD-120	GW-38443-110608-KMV-013	GW-38443-121508-KMV-088	GW-38443-121608-KMV-089
Sample Date:		11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/13/2008	11/6/2008	12/15/2008	12/16/2008
Sample Depth:		22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	25-30 ft BGS	5-10 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	15[b]	0.20 U
Nitrobenzene	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 UJ
N-Nitrosodi-n-propylamine	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Pentachlorophenol	ug/L	5.0 U	5.0 U	-	-	-	-	-	100 U	20 U	5.0 U
Phenanthrene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Phenol	ug/L	1.0 U	1.0 U	-	-	-	-	-	20 U	4.0 U	1.0 U
Pyrene	ug/L	0.20 U	0.20 U	-	-	-	-	-	4.0 U	0.80 U	0.20 U
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	119 J[ab]	5.9 J[b]	2.5 J[b]	2.8 J[b]	76.4[ab]	54.3[ab]	12.0[ab]	249[ab]	40.4[ab]	75.0[ab]
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	203[ab]	5.3	2.1	2.2	34.8[ab]	24.8[ab]	13.0	811[ab]	1940[ab]	88.8[ab]
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-4	VAS-5	VAS-5
Sample ID:		GW-38443-111208-DD-114	GW-38443-111208-DD-115	GW-38443-111208-DD-116	GW-38443-111208-DD-117	GW-38443-111208-DD-118	GW-38443-111208-DD-119	GW-38443-111308-DD-120	GW-38443-110608-KMV-013	GW-38443-121508-KMV-088	GW-38443-121608-KMV-089
Sample Date:		11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/13/2008	11/6/2008	12/15/2008	12/16/2008
Sample Depth:		22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	25-30 ft BGS	5-10 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

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OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-4	VAS-5	VAS-5
Sample ID:		GW-38443-111208-DD-114	GW-38443-111208-DD-115	GW-38443-111208-DD-116	GW-38443-111208-DD-117	GW-38443-111208-DD-118	GW-38443-111208-DD-119	GW-38443-111308-DD-120	GW-38443-110608-KMV-013	GW-38443-121508-KMV-088	GW-38443-121608-KMV-089
Sample Date:		11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/13/2008	11/6/2008	12/15/2008	12/16/2008
Sample Depth:		22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	25-30 ft BGS	5-10 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

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Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-5	VAS-5	VAS-5	VAS-5	VAS-5	VAS-6	VAS-6	VAS-6	VAS-7	VAS-7
Sample ID:		GW-38443-121608-KMV-090	GW-38443-121608-KMV-091	GW-38443-121608-KMV-092	GW-38443-121608-KMV-093	GW-38443-121608-KMV-094	GW-38443-010709-KMV-105	GW-38443-010709-KMV-106	GW-38443-010709-KMV-107	GW-38443-121808-KMV-102	GW-38443-121908-KMV-103
Sample Date:		12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	1/7/2009	1/7/2009	1/7/2009	12/18/2008	12/19/2008
Sample Depth:		40-45 ft BGS	50-55 ft BGS	50-55 ft BGS Duplicate	55-60 ft BGS	60-65 ft BGS	50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	40-45 ft BGS	50-55 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.6	4.2	1.6	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1-Dichloroethane	ug/L	0.57 J	0.50 J	0.49 J	0.47 J	0.51 J	1.6	1.7	1.7	2.5 J	4.3[b]
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	2.1 J	1.1 J	0.70 J	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	12	4.6 J	1.1 J	1.8 J	10 U
Benzene	ug/L	0.72 J[b]	1.0 U	1.0 U	1.0 U	0.48 J[b]	1.5[b]	0.89 J[b]	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 J[b]	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 J[b]	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.66 J	1.0 U	1.0 U	0.26 J	0.64 J	7.7[b]	4.7[b]	3.4	9.4[b]	11[b]
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Cyclohexane	ug/L	0.58 J	0.26 J	0.39 J	0.41 J	0.40 J	0.48 J	0.55 J	0.28 J	0.27 J	0.25 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	ug/L	0.34 J	1.0 U	1.0 U	0.22 J	1.0 U	20[b]	7.4[b]	2.4[b]	1.0 UJ	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	0.89 J	0.28 J	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	0.53 J	1.0 U	1.0 U	1.0 U	1.0 U	1.2 J	1.0 J	1.0 UJ	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Toluene	ug/L	1.2	0.63 J	0.77 J	0.85 J	0.77 J	12	4.7	1.9	0.54 J	0.44 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.47 J	0.48 J	0.46 J	0.33 J	0.31 J
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	0.42 J[b]	2.1[b]	2.1[b]	2.2[b]	2.4[b]	10[ab]	8.9[ab]	5.7[ab]	1.2[b]	1.2[b]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	0.28 J[b]	0.28 J[b]	0.55 J[b]	0.98 J[b]	2.2[ab]	0.70 J[b]	0.36 J[b]	2.0[b]	0.82 J[b]
Xylenes (total)	ug/L	0.63 J	2.0 U	2.0 U	2.0 U	2.0 U	70[b]	28[b]	7.1	2.0 UJ	2.0 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-5	VAS-5	VAS-5	VAS-5	VAS-5	VAS-6	VAS-6	VAS-6	VAS-7	VAS-7
Sample ID:		GW-38443-121608-KMV-090	GW-38443-121608-KMV-091	GW-38443-121608-KMV-092	GW-38443-121608-KMV-093	GW-38443-121608-KMV-094	GW-38443-010709-KMV-105	GW-38443-010709-KMV-106	GW-38443-010709-KMV-107	GW-38443-121808-KMV-102	GW-38443-121908-KMV-103
Sample Date:		12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	1/7/2009	1/7/2009	1/7/2009	12/18/2008	12/19/2008
Sample Depth:		40-45 ft BGS	50-55 ft BGS	50-55 ft BGS Duplicate	55-60 ft BGS	60-65 ft BGS	50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	40-45 ft BGS	50-55 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
2,4-Dimethylphenol	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
2,4-Dinitrophenol	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
2-Chlorophenol	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
2-Methylnaphthalene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
2-Methylphenol	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
2-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
2-Nitrophenol	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
4-Chloroaniline	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
4-Methylphenol	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
4-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	-	2.0 U	2.0 U	2.0 U
4-Nitrophenol	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
Acenaphthene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Acenaphthylene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Acetophenone	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Anthracene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Atrazine	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Benzaldehyde	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Benzo(a)anthracene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Benzo(a)pyrene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	2.2	-	1.9 J	2.0 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	1.1	-	1.0 U	1.0 U	1.0 U
Caprolactam	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
Carbazole	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Chrysene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Dibenzofuran	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Diethyl phthalate	ug/L	-	-	-	-	-	1.3	-	1.0 U	1.0 U	1.0 U
Dimethyl phthalate	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Fluoranthene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Fluorene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Hexachlorobenzene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Hexachlorobutadiene	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	10 U	-	10 U	10 U	10 U
Hexachloroethane	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Isophorone	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-5	VAS-5	VAS-5	VAS-5	VAS-5	VAS-6	VAS-6	VAS-6	VAS-7	VAS-7
Sample ID:		GW-38443-121608-KMV-090	GW-38443-121608-KMV-091	GW-38443-121608-KMV-092	GW-38443-121608-KMV-093	GW-38443-121608-KMV-094	GW-38443-010709-KMV-105	GW-38443-010709-KMV-106	GW-38443-010709-KMV-107	GW-38443-121808-KMV-102	GW-38443-121908-KMV-103
Sample Date:		12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	1/7/2009	1/7/2009	1/7/2009	12/18/2008	12/19/2008
Sample Depth:		40-45 ft BGS	50-55 ft BGS	50-55 ft BGS Duplicate	55-60 ft BGS	60-65 ft BGS	50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	40-45 ft BGS	50-55 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	-	-	-	-	-	0.22[b]	-	0.20 U	0.20 U	0.20 U
Nitrobenzene	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Pentachlorophenol	ug/L	-	-	-	-	-	5.0 U	-	5.0 U	5.0 U	5.0 U
Phenanthrene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.36
Phenol	ug/L	-	-	-	-	-	1.0 U	-	1.0 U	1.0 U	1.0 U
Pyrene	ug/L	-	-	-	-	-	0.20 U	-	0.20 U	0.20 U	0.20 U
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	550[ab]	107 J[ab]	62.2 J[ab]	90.8[ab]	117[ab]	77.5[ab]	85.4[ab]	25.2[ab]	56.7[ab]	62.5[ab]
Arsenic (dissolved)	ug/L	-	-	-	0.68 J[b]	-	-	0.95 J[b]	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	124[ab]	75.8[ab]	52.4[ab]	75.6[ab]	73.9[ab]	138[ab]	104[ab]	37.0[ab]	124[ab]	187[ab]
Lead (dissolved)	ug/L	-	-	-	1.0 U	-	-	1.0 U	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-5	VAS-5	VAS-5	VAS-5	VAS-5	VAS-6	VAS-6	VAS-6	VAS-7	VAS-7
Sample ID:		GW-38443-121608-KMV-090	GW-38443-121608-KMV-091	GW-38443-121608-KMV-092	GW-38443-121608-KMV-093	GW-38443-121608-KMV-094	GW-38443-010709-KMV-105	GW-38443-010709-KMV-106	GW-38443-010709-KMV-107	GW-38443-121808-KMV-102	GW-38443-121908-KMV-103
Sample Date:		12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	1/7/2009	1/7/2009	1/7/2009	12/18/2008	12/19/2008
Sample Depth:		40-45 ft BGS	50-55 ft BGS	50-55 ft BGS Duplicate	55-60 ft BGS	60-65 ft BGS	50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	40-45 ft BGS	50-55 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-5**	**VAS-5**	**VAS-5**	**VAS-5**	**VAS-5**	**VAS-6**	**VAS-6**	**VAS-6**	**VAS-7**	**VAS-7**
Sample ID:		**GW-38443-121608-KMV-090**	**GW-38443-121608-KMV-091**	**GW-38443-121608-KMV-092**	**GW-38443-121608-KMV-093**	**GW-38443-121608-KMV-094**	**GW-38443-010709-KMV-105**	**GW-38443-010709-KMV-106**	**GW-38443-010709-KMV-107**	**GW-38443-121808-KMV-102**	**GW-38443-121908-KMV-103**
Sample Date:		**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**12/18/2008**	**12/19/2008**
Sample Depth:		**40-45 ft BGS**	**50-55 ft BGS**	**50-55 ft BGS Duplicate**	**55-60 ft BGS**	**60-65 ft BGS**	**50-55 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**40-45 ft BGS**	**50-55 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-7	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-9	VAS-9	VAS-9
Sample ID:		GW-38443-121908-KMV-104	GW-38443-010809-DD-218	GW-38443-010809-DD-219	GW-38443-011009-KMV-218	GW-38443-011009-KMV-219	GW-38443-011009-KMV-220	GW-38443-011009-KMV-221	GW-38443-111808-DD-131	GW-38443-111808-DD-132	GW-38443-111808-DD-133
Sample Date:		12/19/2008	1/8/2009	1/8/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	11/18/2008	11/18/2008	11/18/2008
Sample Depth:		55-60 ft BGS	25-30 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,1-Dichloroethane	ug/L	4.2[b]	1.0 U	1.5 J	1.3 J	1.1 J	1.0 J	1.0 J	0.37 J	120 U	20 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	4.0 U	5.0 U	4.0 U	4.0 U	4.0 U	2.0 U	250 U	40 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	20 U	25 U	20 U	20 U	20 U	10 U	1200 U	200 U
2-Hexanone	ug/L	10 U	10 U	20 U	25 U	20 U	20 U	20 U	10 U	1200 U	200 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	20 U	25 UJ	20 U	20 U	20 U	10 U	1200 U	200 U
Acetone	ug/L	10 U	10 U	20 U	25 U	20 U	20 U	20 U	10 U	1200 U	200 U
Benzene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	0.86 J[b]	2.0 U	0.91 J[b]	120 U	20 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 UJ	120 UJ	20 UJ
Bromoform	ug/L	1.0 U	1.0 U	2.0 U	2.5 UJ	2.0 UJ	2.0 UJ	2.0 UJ	1.0 U	120 U	20 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Carbon disulfide	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Chlorobenzene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	3.6	120 U	20 U
Chloroethane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
cis-1,2-Dichloroethene	ug/L	9.9[b]	1.5	74[ab]	64[b]	59[b]	64[b]	65[b]	0.77 J	3900 J[ab]	320 J[ab]
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 U	2.0 U	2.5 UJ	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Cyclohexane	ug/L	0.31 J	0.49 J	0.37 J	2.5 UJ	2.0 U	0.26 J	2.0 U	0.66 J	120 U	20 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 UJ	2.0 UJ	2.0 UJ	1.0 U	120 U	20 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 UJ	2.0 UJ	2.5 UJ	2.0 UJ	2.0 UJ	2.0 UJ	1.0 UJ	120 UJ	20 UJ
Ethylbenzene	ug/L	1.0 U	0.25 J	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	0.35 J	120 U	20 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	20 U	25 U	20 U	20 U	20 U	10 U	1200 U	200 U
Methyl cyclohexane	ug/L	1.0 U	0.55 J	2.0 UJ	2.5 UJ	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	10 U	12 U	10 U	10 U	10 U	0.86 J	620 U	100 U
Methylene chloride	ug/L	1.0 U	1.0 UJ	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	7.5 J[a]
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 UJ	120 UJ	20 UJ
Toluene	ug/L	0.68 J	2.0	1.5 J	0.92 J	0.47 J	0.82 J	0.62 J	22	36 J	5.7 J
trans-1,2-Dichloroethene	ug/L	0.30 J	1.0 U	0.83 J	0.70 J	0.60 J	0.40 J	0.46 J	1.0 U	120 U	20 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Trichloroethene	ug/L	1.3[b]	3.2[b]	51[ab]	51[ab]	42[ab]	7.4[ab]	3.8[b]	0.33 J[b]	5100[ab]	790[ab]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	2.0 U	2.5 UJ	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U
Vinyl chloride	ug/L	1.0[b]	1.0 U	3.4[ab]	2.6 J[ab]	2.7[ab]	3.1[ab]	3.0[ab]	0.97 J[b]	760[ab]	8.6 J[ab]
Xylenes (total)	ug/L	2.0 U	0.52 J	4.0 U	5.0 U	4.0 U	4.0 U	4.0 U	1.8 J	250 U	40 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-7	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-9	VAS-9	VAS-9
Sample ID:		GW-38443-121908-KMV-104	GW-38443-010809-DD-218	GW-38443-010809-DD-219	GW-38443-011009-KMV-218	GW-38443-011009-KMV-219	GW-38443-011009-KMV-220	GW-38443-011009-KMV-221	GW-38443-111808-DD-131	GW-38443-111808-DD-132	GW-38443-111808-DD-133
Sample Date:		12/19/2008	1/8/2009	1/8/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	11/18/2008	11/18/2008	11/18/2008
Sample Depth:		55-60 ft BGS	25-30 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
2,4-Dichlorophenol	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
2,4-Dinitrophenol	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
2-Chloronaphthalene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
2-Chlorophenol	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
2-Methylnaphthalene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.42	0.20 U	-
2-Methylphenol	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
2-Nitroaniline	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
2-Nitrophenol	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
3-Nitroaniline	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
4-Bromophenyl phenyl ether	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
4-Chloro-3-methylphenol	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
4-Chloroaniline	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
4-Chlorophenyl phenyl ether	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
4-Methylphenol	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
4-Nitroaniline	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
4-Nitrophenol	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
Acenaphthene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Acenaphthylene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Acetophenone	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Anthracene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Atrazine	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Benzaldehyde	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Benzo(a)anthracene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Benzo(a)pyrene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Benzo(b)fluoranthene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Benzo(g,h,i)perylene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Benzo(k)fluoranthene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
bis(2-Chloroethoxy)methane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
bis(2-Chloroethyl)ether	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	2.0 U	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Caprolactam	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
Carbazole	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Chrysene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Dibenz(a,h)anthracene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Dibenzofuran	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Diethyl phthalate	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Dimethyl phthalate	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Di-n-butylphthalate (DBP)	ug/L	1.0 U	0.76 J	0.91 J	-	-	-	-	1.0 U	1.0 U	-
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Fluoranthene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Fluorene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Hexachlorobenzene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Hexachlorobutadiene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Hexachlorocyclopentadiene	ug/L	10 U	10 U	10 U	-	-	-	-	10 UJ	10 UJ	-
Hexachloroethane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Isophorone	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-7	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-9	VAS-9	VAS-9
Sample ID:		GW-38443-121908-KMV-104	GW-38443-010809-DD-218	GW-38443-010809-DD-219	GW-38443-011009-KMV-218	GW-38443-011009-KMV-219	GW-38443-011009-KMV-220	GW-38443-011009-KMV-221	GW-38443-111808-DD-131	GW-38443-111808-DD-132	GW-38443-111808-DD-133
Sample Date:		12/19/2008	1/8/2009	1/8/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	11/18/2008	11/18/2008	11/18/2008
Sample Depth:		55-60 ft BGS	25-30 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.21[b]	0.19 J[b]	-
Nitrobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
N-Nitrosodiphenylamine	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Pentachlorophenol	ug/L	5.0 U	5.0 U	5.0 U	-	-	-	-	5.0 U	5.0 U	-
Phenanthrene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Phenol	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	1.0 U	1.0 U	-
Pyrene	ug/L	0.20 U	0.20 U	0.20 U	-	-	-	-	0.20 U	0.20 U	-
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	22.2[ab]	458[ab]	132[ab]	91.7[ab]	-	50.9[ab]	37.6[ab]	19.2[ab]	19.7[ab]	31.9[ab]
Arsenic (dissolved)	ug/L	2.5 J[b]	-	4.5 J[b]	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	55.7[ab]	372[ab]	176[ab]	118[ab]	-	117[ab]	66.5[ab]	354[ab]	87.4[ab]	236[ab]
Lead (dissolved)	ug/L	2.5	-	1.0 U	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-7	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-9	VAS-9	VAS-9
Sample ID:		GW-38443-121908-KMV-104	GW-38443-010809-DD-218	GW-38443-010809-DD-219	GW-38443-011009-KMV-218	GW-38443-011009-KMV-219	GW-38443-011009-KMV-220	GW-38443-011009-KMV-221	GW-38443-111808-DD-131	GW-38443-111808-DD-132	GW-38443-111808-DD-133
Sample Date:		12/19/2008	1/8/2009	1/8/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	11/18/2008	11/18/2008	11/18/2008
Sample Depth:		55-60 ft BGS	25-30 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-7**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-9**	**VAS-9**	**VAS-9**
Sample ID:		**GW-38443-121908-KMV-104**	**GW-38443-010809-DD-218**	**GW-38443-010809-DD-219**	**GW-38443-011009-KMV-218**	**GW-38443-011009-KMV-219**	**GW-38443-011009-KMV-220**	**GW-38443-011009-KMV-221**	**GW-38443-111808-DD-131**	**GW-38443-111808-DD-132**	**GW-38443-111808-DD-133**
Sample Date:		**12/19/2008**	**1/8/2009**	**1/8/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**11/18/2008**	**11/18/2008**	**11/18/2008**
Sample Depth:		**55-60 ft BGS**	**25-30 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**47-52 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-9	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-12	VAS-12	VAS-12	VAS-12
Sample ID:		GW-38443-111808-DD-134	GW-38443-120808-DD-175	GW-38443-120808-DD-176	GW-38443-120808-DD-177	GW-38443-120808-DD-178	GW-38443-120808-DD-179	GW-38443-111008-KMV-014	GW-38443-111008-KMV-015	GW-38443-111008-KMV-016	GW-38443-111008-KMV-017
Sample Date:		11/18/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	11/10/2008	11/10/2008	11/10/2008	11/10/2008
Sample Depth:		52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	12 U	5.0 U	0.40 J	0.54 J	0.96 J	1.1	0.24 J	0.23 J	0.39 J	0.37 J
1,1,2,2-Tetrachloroethane	ug/L	12 U	5.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	ug/L	12 U	5.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	12 U	5.0 U	2.9[b]	2.9[b]	4.8[b]	4.7[b]	1.0 U	1.0 U	0.35 J	0.33 J
1,1-Dichloroethene	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	25 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	12 U	5.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	120 U	50 U	10 U	10 U	10 U	10 U	19	18	0.72 J	10 U
2-Hexanone	ug/L	120 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	120 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	120 U	50 U	10 U	10 U	10 U	10 U	5.9 J	7.2 J	10 U	10 U
Benzene	ug/L	12 U	2.4 J[b]	0.56 J[b]	1.0 U	1.0 U	1.0 U	0.41 J	0.39 J	1.0 U	1.0 U
Bromodichloromethane	ug/L	12 UJ	5.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	12 U	130[ab]	5.8	3.0	1.1	0.76 J	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	12 U	6.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
cis-1,2-Dichloroethene	ug/L	260 J[ab]	5.0 U	5.2[b]	3.9[b]	2.8	2.8	1.0 U	0.21 J	0.46 J	0.47 J
cis-1,3-Dichloropropene	ug/L	12 U	5.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	ug/L	12 U	0.92 J	0.49 J	0.33 J	0.30 J	0.41 J	1.0 UJ	1.0 UJ	0.13 J	0.12 J
Dibromochloromethane	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	12 UJ	5.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	12 U	5.0 UJ	0.28 J	0.24 J	1.0 U	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	120 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	12 U	5.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	62 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Methylene chloride	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	12 UJ	5.0 UJ	4.6[b]	3.7	3.2	2.5	1.0 U	1.0 U	1.0 U	0.31 J
Toluene	ug/L	4.9 J	2.4 J	2.3	1.9	1.4	1.5	0.54 J	0.53 J	0.40 J	0.36 J
trans-1,2-Dichloroethene	ug/L	12 U	5.0 U	0.19 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	12 U	5.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	610[ab]	5.0 U	2.5[b]	2.3[b]	2.8[b]	2.7[b]	2.1[b]	2.1[b]	4.0[b]	4.4[b]
Trichlorofluoromethane (CFC-11)	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	12 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	7.2 J[ab]	5.0 UJ	3.7[ab]	4.1[ab]	5.0[ab]	4.3[ab]	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	25 U	10 UJ	0.60 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-9	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-12	VAS-12	VAS-12	VAS-12
Sample ID:		GW-38443-111808-DD-134	GW-38443-120808-DD-175	GW-38443-120808-DD-176	GW-38443-120808-DD-177	GW-38443-120808-DD-178	GW-38443-120808-DD-179	GW-38443-111008-KMV-014	GW-38443-111008-KMV-015	GW-38443-111008-KMV-016	GW-38443-111008-KMV-017
Sample Date:		11/18/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	11/10/2008	11/10/2008	11/10/2008	11/10/2008
Sample Depth:		52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	-	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
2,4,6-Trichlorophenol	ug/L	-	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
2,4-Dichlorophenol	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
2,4-Dimethylphenol	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
2,4-Dinitrophenol	ug/L	-	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
2,4-Dinitrotoluene	ug/L	-	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
2,6-Dinitrotoluene	ug/L	-	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
2-Chloronaphthalene	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Chlorophenol	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Methylnaphthalene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
2-Methylphenol	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Nitroaniline	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
2-Nitrophenol	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	R	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
3-Nitroaniline	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
4,6-Dinitro-2-methylphenol	ug/L	-	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
4-Bromophenyl phenyl ether	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Chloro-3-methylphenol	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Chloroaniline	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Chlorophenyl phenyl ether	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Methylphenol	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
4-Nitroaniline	ug/L	-	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Nitrophenol	ug/L	-	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
Acenaphthene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Acenaphthylene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Acetophenone	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Anthracene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Atrazine	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Benzaldehyde	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Benzo(a)anthracene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(a)pyrene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(b)fluoranthene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(g,h,i)perylene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(k)fluoranthene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Biphenyl (1,1-Biphenyl)	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
bis(2-Chloroethoxy)methane	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
bis(2-Chloroethyl)ether	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	2.0 U	2.0 U	-	-	-	6.8 U	2.0 U	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Caprolactam	ug/L	-	R	5.0 UJ	-	-	-	5.0 U	5.0 U	5.0 U	-
Carbazole	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Chrysene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Dibenz(a,h)anthracene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Dibenzofuran	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Diethyl phthalate	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Dimethyl phthalate	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Di-n-butylphthalate (DBP)	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Di-n-octyl phthalate (DnOP)	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Fluoranthene	ug/L	-	0.20 U	0.19 J	-	-	-	0.20 U	0.20 U	0.20 U	-
Fluorene	ug/L	-	0.20 U	0.42	-	-	-	0.20 U	0.20 U	0.20 U	-
Hexachlorobenzene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Hexachlorobutadiene	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Hexachlorocyclopentadiene	ug/L	-	10 U	10 U	-	-	-	10 U	10 U	10 U	-
Hexachloroethane	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Isophorone	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-

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Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-9	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-12	VAS-12	VAS-12	VAS-12
Sample ID:		GW-38443-111808-DD-134	GW-38443-120808-DD-175	GW-38443-120808-DD-176	GW-38443-120808-DD-177	GW-38443-120808-DD-178	GW-38443-120808-DD-179	GW-38443-111008-KMV-014	GW-38443-111008-KMV-015	GW-38443-111008-KMV-016	GW-38443-111008-KMV-017
Sample Date:		11/18/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	11/10/2008	11/10/2008	11/10/2008	11/10/2008
Sample Depth:		52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Nitrobenzene	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
N-Nitrosodiphenylamine	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Pentachlorophenol	ug/L	-	R	5.0 U	-	-	-	5.0 U	5.0 U	5.0 U	-
Phenanthrene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Phenol	ug/L	-	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	1.0 U	-
Pyrene	ug/L	-	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	0.20 U	-
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	22.4[ab]	29.8[ab]	3200[ab]	750[ab]	1740[ab]	1120[ab]	1.6 J[b]	1.8 J[b]	9.0 J[b]	3.5 J[b]
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	158[ab]	91.1[ab]	288[ab]	91.2[ab]	152[ab]	95.8[ab]	0.73 J	0.76 J	6.8	2.5
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-

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Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-9**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**
Sample ID:		**GW-38443-111808-DD-134**	**GW-38443-120808-DD-175**	**GW-38443-120808-DD-176**	**GW-38443-120808-DD-177**	**GW-38443-120808-DD-178**	**GW-38443-120808-DD-179**	**GW-38443-111008-KMV-014**	**GW-38443-111008-KMV-015**	**GW-38443-111008-KMV-016**	**GW-38443-111008-KMV-017**
Sample Date:		**11/18/2008**	**12/8/2008**	**12/8/2008**	**12/8/2008**	**12/8/2008**	**12/8/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**
Sample Depth:		**52-57 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**20-25 ft BGS**	**20-25 ft BGS Duplicate**	**25-30 ft BGS**	**30-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-9**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**
Sample ID:		**GW-38443-111808-DD-134**	**GW-38443-120808-DD-175**	**GW-38443-120808-DD-176**	**GW-38443-120808-DD-177**	**GW-38443-120808-DD-178**	**GW-38443-120808-DD-179**	**GW-38443-111008-KMV-014**	**GW-38443-111008-KMV-015**	**GW-38443-111008-KMV-016**	**GW-38443-111008-KMV-017**
Sample Date:		**11/18/2008**	**12/8/2008**	**12/8/2008**	**12/8/2008**	**12/8/2008**	**12/8/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**
Sample Depth:		**52-57 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**20-25 ft BGS**	**20-25 ft BGS Duplicate**	**25-30 ft BGS**	**30-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-12	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111008-KMV-018	GW-38443-111008-KMV-019	GW-38443-111108-KMV-020	GW-38443-111108-KMV-021	GW-38443-111608-KMV-032	GW-38443-111608-KMV-033	GW-38443-111608-KMV-034	GW-38443-111608-KMV-035	GW-38443-111608-KMV-036	GW-38443-111608-KMV-037
Sample Date:		11/10/2008	11/10/2008	11/11/2008	11/11/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-55 ft BGS	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	40-45 ft BGS Duplicate	45-50 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	0.43 J	0.49 J	1.1	1.1	0.26 J	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.34 J	0.36 J	0.55 J	0.64 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	0.57 J	10 U	10 U	10 U	0.61 J	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	0.46 J	0.25 J	0.22 J	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	0.44 J
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.76 J[b]	0.67 J[b]	0.28 J[b]	0.22 J	0.22 J	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.72 J	0.66 J	1.0 U	1.0 U	1.1	0.96 J	2.1	1.8	2.0	9.9[b]
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	ug/L	0.31 J	0.18 J	0.14 J	1.0 UJ	1.0 UJ	1.0 UJ	0.30 J	0.14 J	1.0 UJ	0.35 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	0.33 J	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.22 J	1.0 UJ	1.0 UJ	0.23 J
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	0.54 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Methylene chloride	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	0.29 J	0.29 J	0.33 J	0.39 J	0.46 J	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.1	0.53 J	0.48 J	0.29 J	0.22 J	0.17 J	0.76 J	0.37 J	0.40 J	0.97 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	0.20 J	0.21 J	0.20 J	0.20 J	0.53 J
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	5.7[ab]	6.0[ab]	5.6[ab]	5.7[ab]	0.91 J[b]	0.85 J[b]	1.2[b]	0.87 J[b]	0.85 J[b]	2.6[b]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	0.58 J	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ	0.50 J	2.0 UJ	2.0 UJ	0.48 J
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-12	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111008-KMV-018	GW-38443-111008-KMV-019	GW-38443-111108-KMV-020	GW-38443-111108-KMV-021	GW-38443-111608-KMV-032	GW-38443-111608-KMV-033	GW-38443-111608-KMV-034	GW-38443-111608-KMV-035	GW-38443-111608-KMV-036	GW-38443-111608-KMV-037
Sample Date:		11/10/2008	11/10/2008	11/11/2008	11/11/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-55 ft BGS	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	40-45 ft BGS Duplicate	45-50 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	5.0 UJ	5.0 UJ	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Acetophenone	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Anthracene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Atrazine	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	2.0 U	2.0 U	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Caprolactam	ug/L	-	-	-	-	5.0 UJ	5.0 UJ	-	-	-	-
Carbazole	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Chrysene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Fluorene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	10 U	10 U	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Isophorone	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-12	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111008-KMV-018	GW-38443-111008-KMV-019	GW-38443-111108-KMV-020	GW-38443-111108-KMV-021	GW-38443-111608-KMV-032	GW-38443-111608-KMV-033	GW-38443-111608-KMV-034	GW-38443-111608-KMV-035	GW-38443-111608-KMV-036	GW-38443-111608-KMV-037
Sample Date:		11/10/2008	11/10/2008	11/11/2008	11/11/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-55 ft BGS	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	40-45 ft BGS Duplicate	45-50 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	5.0 U	5.0 U	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Phenol	ug/L	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Pyrene	ug/L	-	-	-	-	0.20 U	0.20 U	-	-	-	-
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	92.2 J[ab]	23.9 J[ab]	59.1 J[ab]	37.0 J[ab]	18.1[ab]	5.8[b]	145[ab]	89.0[ab]	97.0[ab]	98.4[ab]
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	24.8[ab]	8.1	10.8	6.5	26.8[ab]	18.6[ab]	252[ab]	154[ab]	169[ab]	143[ab]
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-12	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111008-KMV-018	GW-38443-111008-KMV-019	GW-38443-111108-KMV-020	GW-38443-111108-KMV-021	GW-38443-111608-KMV-032	GW-38443-111608-KMV-033	GW-38443-111608-KMV-034	GW-38443-111608-KMV-035	GW-38443-111608-KMV-036	GW-38443-111608-KMV-037
Sample Date:		11/10/2008	11/10/2008	11/11/2008	11/11/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-55 ft BGS	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	40-45 ft BGS	45-50 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-14**	**VAS-14**	**VAS-14**	**VAS-14**	**VAS-14**	**VAS-14**
Sample ID:		**GW-38443-111008-KMV-018**	**GW-38443-111008-KMV-019**	**GW-38443-111108-KMV-020**	**GW-38443-111108-KMV-021**	**GW-38443-111608-KMV-032**	**GW-38443-111608-KMV-033**	**GW-38443-111608-KMV-034**	**GW-38443-111608-KMV-035**	**GW-38443-111608-KMV-036**	**GW-38443-111608-KMV-037**
Sample Date:		**11/10/2008**	**11/10/2008**	**11/11/2008**	**11/11/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-55 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**40-45 ft BGS Duplicate**	**45-50 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-14	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-17	VAS-17
Sample ID:		GW-38443-111608-KMV-038	GW-38443-120908-KMV-073	GW-38443-120908-KMV-074	GW-38443-120908-KMV-075	GW-38443-120908-KMV-076	GW-38443-120908-KMV-077	GW-38443-120908-KMV-078	GW-38443-120908-KMV-079	GW-38443-112008-KMV-047	GW-38443-112008-KMV-048
Sample Date:		11/16/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	11/20/2008	11/20/2008
Sample Depth:		50-55 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-55 ft BGS	55-60 ft BGS	30-35 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.55 J	0.60 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.75 J[b]	0.65 J[b]
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.9	6.0
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.64 J	0.52 J
Chloroform (Trichloromethane)	ug/L	1.0 U	0.78 J[b]	0.75 J[b]	0.30 J[b]	0.24 J[b]	0.23 J[b]	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	5.1[b]	2.2	2.0	5.4[b]	7.9[b]	7.8[b]	30[b]	33[b]	0.26 J	0.23 J
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Cyclohexane	ug/L	1.0 UJ	0.14 J	1.0 U	0.34 J	0.46 J	0.45 J	0.39 J	0.42 J	0.34 J	0.21 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.20 J	0.20 J	1.0 UJ	1.0 UJ	0.20 J	0.20 J
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	0.25 J	0.17 J	0.54 J	0.71 J	0.64 J	0.38 J	0.44 J	0.82 J	0.61 J
trans-1,2-Dichloroethene	ug/L	0.43 J	0.25 J	0.25 J	0.38 J	0.42 J	0.38 J	0.43 J	0.49 J	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Trichloroethene	ug/L	3.0[b]	14[ab]	13[ab]	18[ab]	16[ab]	16[ab]	2.9[b]	2.4[b]	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Vinyl chloride	ug/L	0.27 J[b]	1.0 U	1.0 U	1.0 U	1.5[b]	1.4[b]	29[ab]	24[ab]	0.71 J[b]	0.85 J[b]
Xylenes (total)	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 U	2.0 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-14	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-17	VAS-17
Sample ID:		GW-38443-111608-KMV-038	GW-38443-120908-KMV-073	GW-38443-120908-KMV-074	GW-38443-120908-KMV-075	GW-38443-120908-KMV-076	GW-38443-120908-KMV-077	GW-38443-120908-KMV-078	GW-38443-120908-KMV-079	GW-38443-112008-KMV-047	GW-38443-112008-KMV-048
Sample Date:		11/16/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	11/20/2008	11/20/2008
Sample Depth:		50-55 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-55 ft BGS	55-60 ft BGS	30-35 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
2,4-Dimethylphenol	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
2,4-Dinitrophenol	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
2-Chlorophenol	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
2-Methylnaphthalene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
2-Methylphenol	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
2-Nitroaniline	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
2-Nitrophenol	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
3-Nitroaniline	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Chloro-3-methylphenol	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Chloroaniline	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Methylphenol	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
4-Nitroaniline	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
4-Nitrophenol	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
Acenaphthene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Acenaphthylene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Acetophenone	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Anthracene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Atrazine	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Benzaldehyde	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Benzo(a)anthracene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Benzo(a)pyrene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	**0.56[ab]**
Benzo(b)fluoranthene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Benzo(g,h,i)perylene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Benzo(k)fluoranthene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	2.0 U	-	2.0 U	-	-	-	-	2.0 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Caprolactam	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U
Carbazole	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Chrysene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Dibenz(a,h)anthracene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Dibenzofuran	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Diethyl phthalate	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Dimethyl phthalate	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Fluoranthene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.35
Fluorene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Hexachlorobenzene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Hexachlorobutadiene	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	-	10 U	-	10 U	-	-	-	-	10 U	10 U
Hexachloroethane	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U
Isophorone	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-14	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-17	VAS-17
Sample ID:		GW-38443-111608-KMV-038	GW-38443-120908-KMV-073	GW-38443-120908-KMV-074	GW-38443-120908-KMV-075	GW-38443-120908-KMV-076	GW-38443-120908-KMV-077	GW-38443-120908-KMV-078	GW-38443-120908-KMV-079	GW-38443-112008-KMV-047	GW-38443-112008-KMV-048	
Sample Date:		11/16/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	11/20/2008	11/20/2008	
Sample Depth:		50-55 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-55 ft BGS	55-60 ft BGS	30-35 ft BGS	35-40 ft BGS	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	
Parameters	**Units**											
Naphthalene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U	
Nitrobenzene	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U	
N-Nitrosodi-n-propylamine	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U	
N-Nitrosodiphenylamine	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U	
Pentachlorophenol	ug/L	-	5.0 U	-	5.0 U	-	-	-	-	5.0 U	5.0 U	
Phenanthrene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.20 U	
Phenol	ug/L	-	1.0 U	-	1.0 U	-	-	-	-	1.0 U	1.0 U	
Pyrene	ug/L	-	0.20 U	-	0.20 U	-	-	-	-	0.20 U	0.27	
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Arsenic	ug/L	10.9[ab]	10.5[ab]	5.9[b]	97.7[ab]	59.8[ab]	48.4[ab]	62.9[ab]	34.0[ab]	85.2[ab]	30.9[ab]	
Arsenic (dissolved)	ug/L	-	0.66 J[b]	-	-	-	-	-	-	-	-	
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Lead	ug/L	14.1	6.3	4.2	92.7[ab]	44.3[ab]	37.7[ab]	142[ab]	62.2[ab]	57.9[ab]	26.4[ab]	
Lead (dissolved)	ug/L	-	0.20 J	-	-	-	-	-	-	-	-	
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-14	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-17	VAS-17
Sample ID:		GW-38443-111608-KMV-038	GW-38443-120908-KMV-073	GW-38443-120908-KMV-074	GW-38443-120908-KMV-075	GW-38443-120908-KMV-076	GW-38443-120908-KMV-077	GW-38443-120908-KMV-078	GW-38443-120908-KMV-079	GW-38443-112008-KMV-047	GW-38443-112008-KMV-048
Sample Date:		11/16/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	11/20/2008	11/20/2008
Sample Depth:		50-55 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS	50-55 ft BGS	55-60 ft BGS	30-35 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-14**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-17**	**VAS-17**
Sample ID:		**GW-38443-111608-KMV-038**	**GW-38443-120908-KMV-073**	**GW-38443-120908-KMV-074**	**GW-38443-120908-KMV-075**	**GW-38443-120908-KMV-076**	**GW-38443-120908-KMV-077**	**GW-38443-120908-KMV-078**	**GW-38443-120908-KMV-079**	**GW-38443-112008-KMV-047**	**GW-38443-112008-KMV-048**
Sample Date:		**11/16/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**11/20/2008**	**11/20/2008**
Sample Depth:		**50-55 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**45-50 ft BGS Duplicate**	**50-55 ft BGS**	**55-60 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-17**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-21**	**VAS-22**	**VAS-22**	**VAS-22**	**VAS-22**	**VAS-22**
Sample ID:		**GW-38443-120108-KMV-049**	**GW-38443-121508-DD-189**	**GW-38443-121508-DD-190**	**GW-38443-121508-DD-191**	**GW-38443-102808-KMV-001**	**GW-38443-121808-DD-205**	**GW-38443-121808-DD-206**	**GW-38443-121808-DD-207**	**GW-38443-121808-DD-208**	**GW-38443-121808-DD-209**
Sample Date:		**12/1/2008**	**12/15/2008**	**12/15/2008**	**12/15/2008**	**10/28/2008**	**12/18/2008**	**12/18/2008**	**12/18/2008**	**12/18/2008**	**12/18/2008**
Sample Depth:		**45-50 ft BGS**	**17-22 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**25-30 ft BGS**	**27-32 ft BGS**	**27-32 ft BGS Duplicate**	**32-37 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	ug/L	1.0 U	0.43 J	1.0 U	1.0 U	1.0 U	1.0	0.94 J	1.1	0.37 J	0.50 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	0.20 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	3.1	0.60 J	0.53 J	0.58 J	1.0 U	0.87 J
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	ug/L	0.23 J	0.14 J	0.20 J	0.18 J	0.12 J	0.14 J	0.18 J	0.21 J	1.0 U	0.20 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	ug/L	0.50 J	2.3	1.6	1.2	0.33 J	3.8	3.2	6.2	2.2	1.0
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	**15[ab]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	**0.22 J[b]**	**0.27 J[b]**	**0.91 J[b]**	**0.68 J[b]**	1.0 U	**0.66 J[b]**	**0.58 J[b]**	**0.75 J[b]**	**0.35 J[b]**	**0.64 J[b]**
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-17	VAS-19	VAS-19	VAS-19	VAS-21	VAS-22	VAS-22	VAS-22	VAS-22	VAS-22
Sample ID:		GW-38443-120108-KMV-049	GW-38443-121508-DD-189	GW-38443-121508-DD-190	GW-38443-121508-DD-191	GW-38443-102808-KMV-001	GW-38443-121808-DD-205	GW-38443-121808-DD-206	GW-38443-121808-DD-207	GW-38443-121808-DD-208	GW-38443-121808-DD-209
Sample Date:		12/1/2008	12/15/2008	12/15/2008	12/15/2008	10/28/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008
Sample Depth:		45-50 ft BGS	17-22 ft BGS	27-32 ft BGS	32-37 ft BGS	25-30 ft BGS	27-32 ft BGS	27-32 ft BGS Duplicate	32-37 ft BGS	42-47 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
2,4,6-Trichlorophenol	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
2,4-Dichlorophenol	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
2,4-Dimethylphenol	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
2,4-Dinitrophenol	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
2,4-Dinitrotoluene	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
2,6-Dinitrotoluene	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
2-Chloronaphthalene	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
2-Chlorophenol	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
2-Methylnaphthalene	ug/L	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
2-Methylphenol	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
2-Nitroaniline	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
2-Nitrophenol	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
3-Nitroaniline	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
4-Bromophenyl phenyl ether	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
4-Chloro-3-methylphenol	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
4-Chloroaniline	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
4-Chlorophenyl phenyl ether	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
4-Methylphenol	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
4-Nitroaniline	ug/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-
4-Nitrophenol	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
Acenaphthene	ug/L	-	0.20 U	0.21	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Acenaphthylene	ug/L	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Acetophenone	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Anthracene	ug/L	-	0.20 U	0.21	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Atrazine	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Benzaldehyde	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Benzo(a)anthracene	ug/L	-	0.20 U	**0.57[b]**	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Benzo(a)pyrene	ug/L	-	0.20 U	**1.1[ab]**	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Benzo(b)fluoranthene	ug/L	-	0.20 U	**1.1[b]**	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Benzo(g,h,i)perylene	ug/L	-	0.20 U	0.29	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Benzo(k)fluoranthene	ug/L	-	0.20 U	0.33	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
bis(2-Chloroethoxy)methane	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
bis(2-Chloroethyl)ether	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	2.0 U	2.0 U	-	0.91 J	2.0 U	2.0 U	2.0 U	-	-
Butyl benzylphthalate (BBP)	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Caprolactam	ug/L	-	5.0 UJ	5.0 UJ	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
Carbazole	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Chrysene	ug/L	-	0.20 U	0.55	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Dibenz(a,h)anthracene	ug/L	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Dibenzofuran	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Diethyl phthalate	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Dimethyl phthalate	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Di-n-butylphthalate (DBP)	ug/L	-	1.0 U	1.0 U	-	3.5	1.0 U	1.0 U	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Fluoranthene	ug/L	-	0.20 U	1.1	-	0.45	0.20 U	0.20 U	0.20 U	-	-
Fluorene	ug/L	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Hexachlorobenzene	ug/L	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Hexachlorobutadiene	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Hexachlorocyclopentadiene	ug/L	-	10 U	10 U	-	10 U	10 U	10 U	10 U	-	-
Hexachloroethane	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	0.20 U	0.24	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Isophorone	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-17	VAS-19	VAS-19	VAS-19	VAS-21	VAS-22	VAS-22	VAS-22	VAS-22	VAS-22
Sample ID:		GW-38443-120108-KMV-049	GW-38443-121508-DD-189	GW-38443-121508-DD-190	GW-38443-121508-DD-191	GW-38443-102808-KMV-001	GW-38443-121808-DD-205	GW-38443-121808-DD-206	GW-38443-121808-DD-207	GW-38443-121808-DD-208	GW-38443-121808-DD-209
Sample Date:		12/1/2008	12/15/2008	12/15/2008	12/15/2008	10/28/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008
Sample Depth:		45-50 ft BGS	17-22 ft BGS	27-32 ft BGS	32-37 ft BGS	25-30 ft BGS	27-32 ft BGS	27-32 ft BGS Duplicate	32-37 ft BGS	42-47 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Nitrobenzene	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
N-Nitrosodi-n-propylamine	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
N-Nitrosodiphenylamine	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Pentachlorophenol	ug/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-
Phenanthrene	ug/L	-	0.20 U	0.74	-	0.39	0.20 U	0.20 U	0.20 U	-	-
Phenol	ug/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-
Pyrene	ug/L	-	0.20 U	0.91	-	0.35	0.20 U	0.20 U	0.20 U	-	-
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	35.4[ab]	66.2[ab]	49.0[ab]	15.8[ab]	22.3[ab]	127[ab]	132[ab]	71.4[ab]	174[ab]	147[ab]
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	6.3[b]	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	43.9[ab]	180[ab]	226[ab]	66.6[ab]	41.3[ab]	309[ab]	325[ab]	183[ab]	451[ab]	342[ab]
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	1.0 U	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-17	VAS-19	VAS-19	VAS-19	VAS-21	VAS-22	VAS-22	VAS-22	VAS-22	VAS-22
Sample ID:		GW-38443-120108-KMV-049	GW-38443-121508-DD-189	GW-38443-121508-DD-190	GW-38443-121508-DD-191	GW-38443-102808-KMV-001	GW-38443-121808-DD-205	GW-38443-121808-DD-206	GW-38443-121808-DD-207	GW-38443-121808-DD-208	GW-38443-121808-DD-209
Sample Date:		12/1/2008	12/15/2008	12/15/2008	12/15/2008	10/28/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008
Sample Depth:		45-50 ft BGS	17-22 ft BGS	27-32 ft BGS	32-37 ft BGS	25-30 ft BGS	27-32 ft BGS	27-32 ft BGS Duplicate	32-37 ft BGS	42-47 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

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OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-17	VAS-19	VAS-19	VAS-19	VAS-21	VAS-22	VAS-22	VAS-22	VAS-22	VAS-22
Sample ID:		GW-38443-120108-KMV-049	GW-38443-121508-DD-189	GW-38443-121508-DD-190	GW-38443-121508-DD-191	GW-38443-102808-KMV-001	GW-38443-121808-DD-205	GW-38443-121808-DD-206	GW-38443-121808-DD-207	GW-38443-121808-DD-208	GW-38443-121808-DD-209
Sample Date:		12/1/2008	12/15/2008	12/15/2008	12/15/2008	10/28/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008
Sample Depth:		45-50 ft BGS	17-22 ft BGS	27-32 ft BGS	32-37 ft BGS	25-30 ft BGS	27-32 ft BGS	27-32 ft BGS Duplicate	32-37 ft BGS	42-47 ft BGS	47-52 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

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Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011918-KVM-043**	**GW-38443-011918-KVM-044**	**GW-38443-012218-KVM-045**	**GW-38443-012218-KVM-046**	**GW-38443-010818-KMV-023**	**GW-38443-010818-KMV-024**	**GW-38443-010818-KMV-025**	**GW-38443-010818-KMV-026**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**
Sample Date:		**1/19/2018**	**1/19/2018**	**1/22/2018**	**1/22/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/10/2018**	**1/10/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U	1.2 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	11 U	1.6 U	0.32 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4 U	11 U	1.7 U	0.34 U	0.34 U
1,1-Dichloroethane	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	8.3 U	1.3 U	0.25 U	0.30 J
1,1-Dichloroethene	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 U	1.4 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 UJ	1.4 UJ	0.27 U	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.6 U	8.7 U	1.3 U	0.78 J	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	11 U	1.6 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U	1.2 U	0.45 J	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	34 UJ	5.1 UJ	1.0 U	1.0 UJ
2-Hexanone	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	41 U	6.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	7.1 U	24 U	3.6 U	0.71 U	0.71 U
Acetone	ug/L	1.8 U	5.2 J	1.8 U	1.8 U	1.8 U	18 U	100 U	8.8 U	1.8 U	1.8 U
Benzene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	**0.63 J[b]**	2.8 U	9.3 U	1.4 U	0.28 U	0.30 J
Bromodichloromethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
Bromoform	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	4.3 U	14 U	2.2 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 U	4.2 U	14 U	2.1 U	0.42 U	0.42 U
Carbon disulfide	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4 U	11 U	1.7 U	0.34 U	0.34 U
Carbon tetrachloride	ug/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	3.5 U	12 UJ	1.8 UJ	0.35 U	0.35 U
Chlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	1.3 J	3.2 U	11 U	1.6 U	2.4	0.76 J
Chloroethane	ug/L	0.41 U	0.41 U	0.41 UJ	0.41 UJ	0.41 U	4.1 U	14 U	2.1 U	0.41 UJ	0.41 U
Chloroform (Trichloromethane)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	3.1 U	10 U	1.6 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 UJ	0.43 UJ	0.43 U	0.43 U	0.43 U	4.3 U	14 U	2.2 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.30 U	0.54 J	0.53 J	0.65 J	**21 J[b]**	**58 J[b]**	**83[ab]**	**84[ab]**	3.2	**8.6[b]**
cis-1,3-Dichloropropene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.6 U	8.7 U	1.3 U	0.26 U	0.26 U
Cyclohexane	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.4 U	15 U	2.2 U	0.44 U	0.44 U
Dibromochloromethane	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	8.3 U	1.3 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	17 UJ	2.5 UJ	0.50 U	0.50 UJ
Ethylbenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.35 J	2.6 U	8.7 U	1.3 U	0.26 U	0.26 U
Isopropyl benzene	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.1 U	7.0 U	1.1 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.98 J	2.4 U	8.0 U	1.2 U	0.24 U	0.24 U
Methyl acetate	ug/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	14 U	48 U	7.2 U	1.4 U	1.4 U
Methyl cyclohexane	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.71 J	4.5 U	15 U	2.3 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 U	1.4 U	0.27 U	0.27 U
Methylene chloride	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	**15 J[ab]**	18 U	2.7 U	0.53 U	0.53 U
o-Xylene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.38 J	2.8 U	9.3 U	1.4 U	0.28 U	0.28 U
Styrene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U	1.2 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
Toluene	ug/L	0.43 J	1.4	0.23 U	0.23 U	0.65 J	2.3 U	7.7 U	1.2 U	0.23 U	0.23 J
trans-1,2-Dichloroethene	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	2.9 U	9.7 U	4.3 J	0.29 U	0.29 U
trans-1,3-Dichloropropene	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	3.1 U	10 U	1.6 U	0.31 U	0.31 U
Trichloroethene	ug/L	0.33 U	**8.3[ab]**	**3.0[b]**	**2.8[b]**	0.33 U	3.3 U	11 U	1.7 U	0.33 U	**0.48 J[b]**
Trichlorofluoromethane (CFC-11)	ug/L	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 U	5.0 U	17 UJ	2.5 UJ	0.50 U	0.50 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	4.1 U	14 U	2.1 U	0.41 U	0.41 U
Vinyl chloride	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	**4.0 J[ab]**	**75 J[ab]**	**400[ab]**	**11[ab]**	**1.6[b]**	**14[ab]**
Xylenes (total)	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	1.4 J	2.4 U	8.0 U	1.2 U	0.24 U	0.24 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	0.38 U	-	-	0.39 U	0.38 U	-	-	0.39 U	0.40 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-31	VAS-31	VAS-31	VAS-31	VAS-32	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33
Sample ID:		GW-38443-011918-KVM-043	GW-38443-011918-KVM-044	GW-38443-012218-KVM-045	GW-38443-012218-KVM-046	GW-38443-010818-KMV-023	GW-38443-010818-KMV-024	GW-38443-010818-KMV-025	GW-38443-010818-KMV-026	GW-38443-011018-KVM-031	GW-38443-011018-KVM-032
Sample Date:		1/19/2018	1/19/2018	1/22/2018	1/22/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/10/2018	1/10/2018
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	25-30 ft BGS	30-35 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	0.29 U	-	-	0.29 U	0.29 U	-	-	0.29 U	0.30 U	-
2,4,6-Trichlorophenol	ug/L	0.23 U	-	-	0.24 U	0.23 U	-	-	0.24 U	0.24 U	-
2,4-Dichlorophenol	ug/L	0.18 U	-	-	0.19 U	0.18 U	-	-	0.19 U	0.19 U	-
2,4-Dimethylphenol	ug/L	0.24 U	-	-	0.25 U	0.24 U	-	-	0.25 U	0.25 U	-
2,4-Dinitrophenol	ug/L	0.30 U	-	-	0.31 U	0.31 U	-	-	0.31 U	0.32 U	-
2,4-Dinitrotoluene	ug/L	0.24 U	-	-	0.25 U	0.24 U	-	-	0.25 U	0.25 U	-
2,6-Dinitrotoluene	ug/L	0.76 U	-	-	0.78 U	0.77 U	-	-	0.78 U	0.80 U	-
2-Chloronaphthalene	ug/L	0.095 U	-	-	0.098 U	0.096 U	-	-	0.098 U	0.10 U	-
2-Chlorophenol	ug/L	0.28 U	-	-	0.28 U	0.28 U	-	-	0.28 U	0.29 U	-
2-Methylnaphthalene	ug/L	0.086 U	-	-	0.089 U	0.13 J	-	-	1.2	0.13 J	-
2-Methylphenol	ug/L	0.16 U	-	-	0.17 U	0.16 U	-	-	0.17 U	0.17 U	-
2-Nitroaniline	ug/L	0.20 U	-	-	0.21 U	0.20 U	-	-	0.21 U	0.21 U	-
2-Nitrophenol	ug/L	0.27 U	-	-	0.27 U	0.27 U	-	-	0.27 U	0.28 U	-
3&4-Methylphenol	ug/L	0.76 U	-	-	0.78 U	0.77 U	-	-	0.78 U	0.80 U	-
3,3'-Dichlorobenzidine	ug/L	0.35 U	-	-	0.36 U	0.36 U	-	-	0.36 U	0.37 U	-
3-Nitroaniline	ug/L	0.27 U	-	-	0.27 U	0.27 U	-	-	0.27 U	0.28 U	-
4,6-Dinitro-2-methylphenol	ug/L	2.3 U	-	-	2.4 U	2.3 U	-	-	2.4 U	2.4 U	-
4-Bromophenyl phenyl ether	ug/L	0.21 U	-	-	0.22 U	0.21 U	-	-	0.22 U	0.22 U	-
4-Chloro-3-methylphenol	ug/L	0.20 U	-	-	0.21 U	0.20 U	-	-	0.21 U	0.21 U	-
4-Chloroaniline	ug/L	0.20 U	-	-	0.21 U	0.20 U	-	-	0.21 U	0.21 U	-
4-Chlorophenyl phenyl ether	ug/L	0.29 U	-	-	0.29 U	0.29 U	-	-	0.29 U	0.30 U	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	0.21 U	-	-	0.22 U	0.21 U	-	-	0.22 U	0.22 U	-
4-Nitrophenol	ug/L	0.28 U	-	-	0.28 U	0.28 U	-	-	0.28 U	0.29 U	-
Acenaphthene	ug/L	0.042 U	-	-	0.043 U	0.043 U	-	-	0.043 U	0.044 U	-
Acenaphthylene	ug/L	0.046 U	-	-	0.047 U	0.046 U	-	-	0.047 U	0.048 U	-
Acetophenone	ug/L	0.32 U	-	-	0.33 U	0.33 U	-	-	0.33 U	0.34 U	-
Anthracene	ug/L	0.084 U	-	-	0.086 U	0.085 U	-	-	0.086 U	0.088 U	-
Atrazine	ug/L	0.32 U	-	-	0.33 U	0.33 U	-	-	0.33 U	0.34 U	-
Benzaldehyde	ug/L	0.37 U	-	-	0.38 U	0.37 U	-	-	0.38 U	0.39 U	-
Benzo(a)anthracene	ug/L	0.028 U	-	-	0.029 U	0.028 U	-	-	0.029 U	0.030 U	-
Benzo(a)pyrene	ug/L	0.049 U	-	-	0.050 U	0.049 U	-	-	0.050 U	0.051 U	-
Benzo(b)fluoranthene	ug/L	0.038 U	-	-	0.039 U	0.038 U	-	-	0.039 U	0.039 UJ	-
Benzo(g,h,i)perylene	ug/L	0.044 U	-	-	0.045 U	0.045 U	-	-	0.045 U	0.046 U	-
Benzo(k)fluoranthene	ug/L	0.043 U	-	-	0.044 U	0.043 U	-	-	0.044 U	0.045 UJ	-
Biphenyl (1,1-Biphenyl)	ug/L	0.88 U	-	-	**0.41 J[b]**	0.13 U	-	-	0.13 U	0.13 U	-
bis(2-Chloroethoxy)methane	ug/L	0.30 U	-	-	0.31 U	0.31 U	-	-	0.31 U	0.32 U	-
bis(2-Chloroethyl)ether	ug/L	0.095 U	-	-	0.098 U	0.096 U	-	-	0.098 U	0.10 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	1.6 U	-	-	1.7 U	1.6 U	-	-	3.0 J	1.7 U	-
Butyl benzylphthalate (BBP)	ug/L	0.25 U	-	-	0.25 U	0.25 U	-	-	0.25 U	0.26 U	-
Caprolactam	ug/L	0.19 U	-	-	0.20 U	0.19 U	-	-	0.20 U	0.20 U	-
Carbazole	ug/L	0.27 U	-	-	0.27 U	0.27 U	-	-	0.27 U	0.28 U	-
Chrysene	ug/L	0.048 U	-	-	0.049 U	0.048 U	-	-	0.049 U	0.050 U	-
Dibenz(a,h)anthracene	ug/L	0.042 U	-	-	0.044 U	0.043 U	-	-	0.044 U	0.045 U	-
Dibenzofuran	ug/L	0.019 U	-	-	0.020 U	0.019 U	-	-	0.020 U	0.020 U	-
Diethyl phthalate	ug/L	0.57 U	-	-	0.59 U	0.58 U	-	-	0.59 U	0.60 U	-
Dimethyl phthalate	ug/L	0.28 U	-	-	0.28 U	0.28 U	-	-	0.28 U	0.29 U	-
Di-n-butylphthalate (DBP)	ug/L	1.6 U	-	-	1.7 U	1.6 U	-	-	1.7 U	1.7 U	-
Di-n-octyl phthalate (DnOP)	ug/L	0.22 U	-	-	0.23 U	0.22 U	-	-	0.23 U	0.23 UJ	-
Fluoranthene	ug/L	0.042 U	-	-	0.044 U	0.043 U	-	-	0.044 U	0.045 U	-
Fluorene	ug/L	0.039 U	-	-	0.040 U	0.039 U	-	-	0.040 U	0.041 U	-
Hexachlorobenzene	ug/L	0.081 U	-	-	0.084 U	0.082 U	-	-	0.084 U	0.085 U	-
Hexachlorobutadiene	ug/L	0.26 U	-	-	0.26 U	0.26 U	-	-	0.26 U	0.27 U	-
Hexachlorocyclopentadiene	ug/L	0.23 U	-	-	0.24 U	0.23 U	-	-	0.24 U	0.24 U	-
Hexachloroethane	ug/L	0.18 U	-	-	0.19 U	0.18 U	-	-	0.19 U	0.19 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.041 U	-	-	0.042 U	0.042 U	-	-	0.042 U	0.043 U	-
Isophorone	ug/L	0.26 U	-	-	0.26 U	0.26 U	-	-	0.26 U	0.27 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011918-KVM-043**	**GW-38443-011918-KVM-044**	**GW-38443-012218-KVM-045**	**GW-38443-012218-KVM-046**	**GW-38443-010818-KMV-023**	**GW-38443-010818-KMV-024**	**GW-38443-010818-KMV-025**	**GW-38443-010818-KMV-026**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**
Sample Date:		**1/19/2018**	**1/19/2018**	**1/22/2018**	**1/22/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/10/2018**	**1/10/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Naphthalene	ug/L	0.060 U	-	-	0.061 U	0.060 U	-	-	0.061 U	0.063 U	-
Nitrobenzene	ug/L	0.038 U	-	-	0.039 U	0.038 U	-	-	0.039 U	0.040 U	-
N-Nitrosodi-n-propylamine	ug/L	0.23 U	-	-	0.24 U	0.23 U	-	-	0.24 U	0.24 U	-
N-Nitrosodiphenylamine	ug/L	0.30 U	-	-	0.30 U	0.30 U	-	-	0.30 U	0.31 U	-
Pentachlorophenol	ug/L	0.26 U	-	-	0.26 U	0.26 U	-	-	0.26 U	0.27 U	-
Phenanthrene	ug/L	0.059 U	-	-	0.061 U	0.060 U	-	-	0.14 J	0.062 U	-
Phenol	ug/L	0.57 U	-	-	0.59 U	0.58 U	-	-	0.59 U	0.60 U	-
Pyrene	ug/L	0.040 U	-	-	0.041 U	0.040 U	-	-	0.041 U	0.042 U	-
Metals											
Aluminum	ug/L	1500	**16000[b]**	250	61	**14000[b]**	250	**17000[b]**	**62000[b]**	420	**46000 J[b]**
Aluminum (dissolved)	ug/L	34 U	**8000[b]**	34 U	34 U	1100	34 U	450	**8700[b]**	34 U	1400 J
Antimony	ug/L	0.66 J	**1.1 J[b]**	**1.5 J[b]**	0.57 U	**2.4[b]**	0.57 U	**1.4 J[b]**	**3.8[b]**	0.57 U	**10 J[ab]**
Antimony (dissolved)	ug/L	0.57 U	0.73 J	**1.0 J[b]**	0.57 U	0.57 U	0.57 U	0.57 U	**0.88 J[b]**	**3.3[b]**	0.57 U
Arsenic	ug/L	**2.7 J[b]**	**44[ab]**	**1.3 J[b]**	0.75 U	**56[ab]**	**1.2 J[b]**	**94[ab]**	**330[ab]**	**120[ab]**	**820 J[ab]**
Arsenic (dissolved)	ug/L	0.75 U	**19[ab]**	0.75 U	0.75 U	**25[ab]**	0.75 U	**2.8 J[b]**	**43[ab]**	**110[ab]**	**26 J[ab]**
Barium	ug/L	270	**570[b]**	99	130	**1700[b]**	310	**1100[b]**	**3000[ab]**	**1100[b]**	**3600 J[ab]**
Barium (dissolved)	ug/L	220	300	110	120	**860[b]**	310	**410[b]**	**670[b]**	**1100[b]**	340
Beryllium	ug/L	0.31 U	0.92 J	0.35 J	0.31 U	1.6	0.31 U	1.2	**4.1[ab]**	0.31 U	**4.3 J[ab]**
Beryllium (dissolved)	ug/L	0.31 U	0.45 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.60 J	0.31 U	0.31 U
Cadmium	ug/L	0.21 U	0.51 J	0.29 J	0.21 U	**2.5[b]**	0.21 U	**1.3[b]**	**4.1[b]**	0.21 U	**2.3 J[b]**
Cadmium (dissolved)	ug/L	0.21 U	0.26 J	0.21 J	0.21 U	0.22 J	0.21 U	0.21 U	0.49 J	0.21 U	0.21 U
Calcium	ug/L	190000	250000	110000	120000	420000	120000	410000	1400000	160000	1200000 J
Calcium (dissolved)	ug/L	140000	190000	120000	120000	140000	110000	120000	260000	160000	160000
Chromium	ug/L	4.0	26	0.98 U	0.98 U	86	10	74	**190[a]**	2.3	**240 J[a]**
Chromium (dissolved)	ug/L	0.98 U	15	0.98 U	0.98 U	6.0	0.98 U	2.5	22	0.98 U	13
Cobalt	ug/L	**1.6[b]**	**14[b]**	0.56 J	0.47 J	**21[b]**	**1.1[b]**	**17[b]**	**71[b]**	**1.9[b]**	**72 J[b]**
Cobalt (dissolved)	ug/L	0.35 J	**7.0[b]**	0.34 J	0.37 J	**5.3[b]**	**0.89 J[b]**	**1.5[b]**	**10[b]**	**1.4[b]**	**3.6 J[b]**
Copper	ug/L	12	50	5.5	1.7 U	68	2.4	68	**260[b]**	3.9	**330 J[b]**
Copper (dissolved)	ug/L	2.9	26	3.0	1.7 U	12	1.7 U	4.9	37	1.9 J	13 J
Iron	ug/L	**3400[b]**	**39000[b]**	710	870	**41000[b]**	870	**49000[b]**	**250000[b]**	**12000[b]**	**390000 J[b]**
Iron (dissolved)	ug/L	47 U	**19000[b]**	65 J	310	**9000[b]**	82 J	**1700[b]**	**28000[b]**	**8300[b]**	**14000 J[b]**
Lead	ug/L	**72[ab]**	**28[ab]**	0.68 J	0.45 U	**78[ab]**	0.83 J	**42[ab]**	**170[ab]**	3.1	**310 J[ab]**
Lead (dissolved)	ug/L	0.45 U	14	0.45 U	0.45 U	6.0	0.45 U	1.2	**20[ab]**	0.45 U	8.9 J
Magnesium	ug/L	57000	88000	31000	36000	170000	49000	160000	450000	49000	410000 J
Magnesium (dissolved)	ug/L	36000	62000	33000	36000	53000	48000	47000	100000	50000	57000
Manganese	ug/L	**270[b]**	**1700[b]**	**400[b]**	**420[b]**	**2000[b]**	**710[b]**	**1800[b]**	**5700[b]**	**350[b]**	**5600 J[b]**
Manganese (dissolved)	ug/L	37	**1200[b]**	**410[b]**	**410[b]**	**580[b]**	**680[b]**	**580[b]**	**940[b]**	**310[b]**	**370[b]**
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.30[b]**	0.13 U	**0.24[b]**
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	4.8	36	1.6 J	1.7 J	**80[b]**	7.9	**67[b]**	**220[b]**	3.2	**260 J[b]**
Nickel (dissolved)	ug/L	1.5 U	19	1.5 U	1.5 U	11	2.6	4.3	28	1.5 U	11 J
Potassium	ug/L	4600	11000	4500	4000	14000	13000	15000	24000	11000	20000
Potassium (dissolved)	ug/L	4000	9100	4800	3900	11000	13000	11000	11000	11000	9400
Selenium	ug/L	2.7 J	3.0 J	1.0 J	0.89 U	2.5 J	0.89 U	1.9 J	7.5	0.89 U	**11[b]**
Selenium (dissolved)	ug/L	2.5 J	2.5 J	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	1.1 J	1.2 J	0.89 U
Silver	ug/L	0.053 U	0.079 J	0.053 U	0.053 U	0.18 J	0.053 U	0.16 J	0.62 J	0.053 U	0.77 J
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.066 J	0.053 U	0.053 U
Sodium	ug/L	36000	43000	40000	59000	69000	89000	68000	87000	50000	88000
Sodium (dissolved)	ug/L	34000	46000	44000	59000	71000	89000	70000	85000	52000	87000
Thallium	ug/L	**0.48 J[b]**	**1.4[b]**	**0.20 J[b]**	0.20 U	**1.2[b]**	0.20 U	**0.99 J[b]**	**3.4[ab]**	0.20 U	**1.7[b]**
Thallium (dissolved)	ug/L	**0.30 J[b]**	**0.68 J[b]**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.42 J[b]**	0.20 U	0.20 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-31	VAS-31	VAS-31	VAS-31	VAS-32	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33
Sample ID:		GW-38443-011918-KVM-043	GW-38443-011918-KVM-044	GW-38443-012218-KVM-045	GW-38443-012218-KVM-046	GW-38443-010818-KMV-023	GW-38443-010818-KMV-024	GW-38443-010818-KMV-025	GW-38443-010818-KMV-026	GW-38443-011018-KVM-031	GW-38443-011018-KVM-032
Sample Date:		1/19/2018	1/19/2018	1/22/2018	1/22/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/10/2018	1/10/2018
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	25-30 ft BGS	30-35 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	4.1 J	36[b]	0.82 U	0.82 U	41[b]	0.82 U	41[b]	160[b]	1.5 J	150 J[b]
Vanadium (dissolved)	ug/L	0.82 U	18[b]	0.82 U	0.82 U	3.4 J	0.82 U	0.92 J	20[b]	0.82 U	4.9 J
Zinc	ug/L	410	1100[b]	290	330	1100[b]	660 J[b]	950[b]	2300[b]	870[b]	5500 J[b]
Zinc (dissolved)	ug/L	290	1300[b]	300	250	390	1000 J[b]	480	520	720[b]	730[b]
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	0.051 U	-	-	0.048 U	0.051 U	-	-	0.050 U	0.050 UJ	-
Aroclor-1221 (PCB-1221)	ug/L	0.092 U	-	-	0.086 U	0.092 U	-	-	0.090 U	0.090 UJ	-
Aroclor-1232 (PCB-1232)	ug/L	0.071 U	-	-	0.067 U	0.071 U	-	-	0.070 U	0.070 UJ	-
Aroclor-1242 (PCB-1242)	ug/L	0.061 U	-	-	0.057 U	0.061 U	-	-	0.060 U	0.060 UJ	-
Aroclor-1248 (PCB-1248)	ug/L	0.051 U	-	-	0.048 U	0.051 U	-	-	0.050 U	0.050 UJ	-
Aroclor-1254 (PCB-1254)	ug/L	0.031 U	-	-	0.029 U	0.031 U	-	-	0.030 U	0.030 UJ	-
Aroclor-1260 (PCB-1260)	ug/L	0.041 U	-	-	0.038 U	0.041 U	-	-	0.040 U	0.040 UJ	-
Pesticides											
4,4'-DDD	ug/L	0.018 U	-	-	0.018 U	0.018 U	-	-	0.018 U	0.018 U	-
4,4'-DDE	ug/L	0.012 U	-	-	0.012 U	0.012 U	-	-	0.012 U	0.012 U	-
4,4'-DDT	ug/L	0.017 U	-	-	0.017 U	0.017 U	-	-	0.017 U	0.017 U	-
Aldrin	ug/L	0.013 U	-	-	0.013 U	0.013 U	-	-	0.013 U	0.013 U	-
alpha-BHC	ug/L	0.014 U	-	-	0.014 U	0.014 U	-	-	0.014 U	0.014 U	-
alpha-Chlordane	ug/L	0.012 U	-	-	0.012 U	0.012 U	-	-	0.012 U	0.012 U	-
beta-BHC	ug/L	0.018 U	-	-	0.018 U	0.018 U	-	-	0.018 U	0.018 U	-
delta-BHC	ug/L	0.029 U	-	-	0.029 U	0.029 U	-	-	0.030 U	0.029 U	-
Dieldrin	ug/L	0.013 U	-	-	0.013 U	0.013 U	-	-	0.013 U	0.013 U	-
Endosulfan I	ug/L	0.016 U	-	-	0.016 U	0.016 U	-	-	0.032 J	0.016 U	-
Endosulfan II	ug/L	0.015 U	-	-	0.015 U	0.015 U	-	-	0.015 U	0.015 U	-
Endosulfan sulfate	ug/L	0.015 U	-	-	0.015 U	0.015 U	-	-	0.015 U	0.015 U	-
Endrin	ug/L	0.013 U	-	-	0.013 U	0.013 U	-	-	0.013 U	0.013 U	-
Endrin aldehyde	ug/L	0.018 U	-	-	0.018 U	0.018 U	-	-	0.018 U	0.018 U	-
Endrin ketone	ug/L	0.016 U	-	-	0.016 U	0.016 U	-	-	0.016 U	0.016 U	-
gamma-BHC (lindane)	ug/L	0.013 U	-	-	0.013 U	0.013 U	-	-	0.013 U	0.013 U	-
gamma-Chlordane	ug/L	0.013 U	-	-	0.013 U	0.013 U	-	-	0.013 U	0.013 U	-
Heptachlor	ug/L	0.014 U	-	-	0.014 U	0.014 U	-	-	0.014 U	0.014 U	-
Heptachlor epoxide	ug/L	0.015 U	-	-	0.015 U	0.015 U	-	-	0.015 U	0.015 U	-
Methoxychlor	ug/L	0.013 U	-	-	0.013 U	0.013 U	-	-	0.013 U	0.013 U	-
Toxaphene	ug/L	0.20 U	-	-	0.19 U	0.20 U	-	-	0.20 U	0.19 U	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	59000	69000	67000	110000	110000	120000	95000	130000	72000	180000
Cyanide (total)	ug/L	6 U	-	-	6 U	7.4 J[b]	-	-	7.8 J[b]	150[b]	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-011918-KVM-043**	**GW-38443-011918-KVM-044**	**GW-38443-012218-KVM-045**	**GW-38443-012218-KVM-046**	**GW-38443-010818-KMV-023**	**GW-38443-010818-KMV-024**	**GW-38443-010818-KMV-025**	**GW-38443-010818-KMV-026**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**
Sample Date:		**1/19/2018**	**1/19/2018**	**1/22/2018**	**1/22/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/10/2018**	**1/10/2018**
Sample Depth:		**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	**4600**[b]	3000	3000	1400	70 U	70 U	70 U	70 U	14 U	14 U
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	ug/L	43000	49000	50000	58000	38000	34000	31000	35000	7100	49000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081	GW-38443-022018-JC-082
Sample Date:		1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018	2/16/2018	2/16/2018	2/19/2018	2/19/2018	2/20/2018
Sample Depth:		30-35 ft BGS Duplicate	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.23 U	0.58 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.46 U	0.32 U	0.32 U	0.80 U	0.32 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.49 U	0.34 U	0.34 U	0.85 U	0.34 U	0.34 U
1,1-Dichloroethane	ug/L	0.30 J	0.25 U	0.25 U	0.28 J	0.36 U	0.25 U	0.25 U	0.63 U	0.25 U	0.28 J
1,1-Dichloroethene	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.39 U	0.27 U	0.27 U	0.68 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.39 UJ	0.27 U	0.27 U	0.68 U	0.27 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.26 U	0.26 U	0.65 U	0.26 U	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.46 U	0.32 U	0.32 U	0.80 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.23 U	0.58 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.5 UJ	1.0 U	1.0 U	2.6 U	1.0 U	1.0 U
2-Hexanone	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.8 U	1.2 U	1.2 U	3.1 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	0.71 U	0.71 U	0.71 U	1.0 U	0.71 U	0.71 U	1.8 U	0.71 U	0.71 U
Acetone	ug/L	1.8 U	1.8 U	1.8 U	1.8 U	2.5 U	1.8 UJ	1.8 U	4.4 UJ	1.8 UJ	1.8 U
Benzene	ug/L	0.32 J	0.28 U	0.28 U	0.28 U	0.40 U	0.28 U	0.28 U	**0.71 J[b]**	0.28 U	0.28 U
Bromodichloromethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U
Bromoform	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U	0.43 U	0.43 U	1.1 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	0.42 U	0.42 U	0.42 U	0.42 U	0.60 U	0.42 U	0.42 U	1.1 U	0.42 U	0.42 UJ
Carbon disulfide	ug/L	0.34 U	0.38 J	0.34 U	0.34 U	0.49 U	0.34 U	0.34 U	0.85 U	0.34 U	1.2
Carbon tetrachloride	ug/L	0.35 U	0.35 U	0.35 U	0.35 U	0.50 U	0.35 U	0.35 U	0.88 U	0.35 U	0.35 U
Chlorobenzene	ug/L	0.77 J	0.32 U	0.32 U	0.32 U	0.46 U	0.32 U	0.32 U	0.80 U	0.32 U	0.32 U
Chloroethane	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.59 U	0.41 UJ	0.41 UJ	1.0 UJ	0.41 UJ	0.41 U
Chloroform (Trichloromethane)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.44 U	**0.70 J[b]**	**0.60 J[b]**	0.78 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U	0.43 U	0.43 U	1.1 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	**8.8[b]**	**8.6[b]**	**11[b]**	**12[b]**	**45[b]**	1.0	**5.0[b]**	**27[b]**	**4.8[b]**	**15[b]**
cis-1,3-Dichloropropene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.26 U	0.26 U	0.65 U	0.26 U	0.26 U
Cyclohexane	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.63 U	0.44 U	0.44 U	1.1 U	0.44 U	0.44 U
Dibromochloromethane	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.36 U	0.25 U	0.25 U	0.63 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.72 UJ	0.50 U	0.50 U	1.3 U	0.50 U	0.50 U
Ethylbenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.26 U	0.26 U	0.65 U	0.26 U	0.26 U
Isopropyl benzene	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.21 U	0.21 U	0.53 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.24 U	0.24 U	0.60 U	0.24 U	0.24 U
Methyl acetate	ug/L	1.4 U	1.4 U	1.4 U	1.4 U	2.0 U	1.4 UJ	1.4 U	3.6 U	1.4 U	1.4 U
Methyl cyclohexane	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.64 U	0.45 U	0.45 U	1.1 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.39 U	0.27 U	0.27 U	0.68 U	0.27 U	0.27 U
Methylene chloride	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.76 U	0.53 U	0.53 U	2.3 U	0.53 U	0.53 U
o-Xylene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.40 U	0.28 U	0.28 U	0.70 U	0.28 U	0.28 U
Styrene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.23 U	0.58 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U
Toluene	ug/L	0.25 J	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.85 J	3.9	0.42 J	0.23 U
trans-1,2-Dichloroethene	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	0.41 U	0.29 U	0.29 J	0.73 U	0.36 J	0.74 J
trans-1,3-Dichloropropene	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.44 U	0.31 U	0.31 U	0.78 U	0.31 U	0.31 U
Trichloroethene	ug/L	**0.46 J[b]**	0.33 U	**0.38 J[b]**	0.33 U	0.47 U	**7.0[ab]**	**18[ab]**	**57[ab]**	**21[ab]**	**7.1[ab]**
Trichlorofluoromethane (CFC-11)	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.72 UJ	0.50 UJ	0.50 UJ	1.3 UJ	0.50 UJ	0.50 U
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.59 U	0.41 U	0.41 U	1.0 U	0.41 U	0.41 U
Vinyl chloride	ug/L	**15[ab]**	**9.5[ab]**	**4.5[ab]**	**6.3[ab]**	**6.8[ab]**	0.45 U	0.45 U	1.1 U	0.45 U	0.45 U
Xylenes (total)	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.24 U	0.24 U	0.60 U	0.24 U	0.24 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	0.40 U	-	0.38 U	-	-	0.38 U	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081	GW-38443-022018-JC-082
Sample Date:		1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018	2/16/2018	2/16/2018	2/19/2018	2/19/2018	2/20/2018
Sample Depth:		30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	-	-	-	0.30 U	-	0.29 U	-	-	0.29 U	-
2,4,6-Trichlorophenol	ug/L	-	-	-	0.24 U	-	0.23 U	-	-	0.23 U	-
2,4-Dichlorophenol	ug/L	-	-	-	0.19 U	-	0.18 U	-	-	0.18 U	-
2,4-Dimethylphenol	ug/L	-	-	-	0.25 U	-	0.24 U	-	-	0.24 U	-
2,4-Dinitrophenol	ug/L	-	-	-	0.32 U	-	0.30 U	-	-	0.30 U	-
2,4-Dinitrotoluene	ug/L	-	-	-	0.25 U	-	0.24 U	-	-	0.24 U	-
2,6-Dinitrotoluene	ug/L	-	-	-	0.80 U	-	0.76 U	-	-	0.76 U	-
2-Chloronaphthalene	ug/L	-	-	-	0.10 U	-	0.095 U	-	-	0.095 U	-
2-Chlorophenol	ug/L	-	-	-	0.29 U	-	0.28 U	-	-	0.28 U	-
2-Methylnaphthalene	ug/L	-	-	-	0.15 J	-	0.086 U	-	-	0.086 U	-
2-Methylphenol	ug/L	-	-	-	0.17 U	-	0.16 U	-	-	0.16 U	-
2-Nitroaniline	ug/L	-	-	-	0.21 U	-	0.20 U	-	-	0.20 U	-
2-Nitrophenol	ug/L	-	-	-	0.28 U	-	0.27 U	-	-	0.27 U	-
3&4-Methylphenol	ug/L	-	-	-	0.80 U	-	0.76 U	-	-	0.76 U	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	0.37 U	-	0.35 U	-	-	0.35 U	-
3-Nitroaniline	ug/L	-	-	-	0.28 U	-	0.27 U	-	-	0.27 U	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	2.4 U	-	2.3 U	-	-	2.3 U	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	0.22 U	-	0.21 U	-	-	0.21 U	-
4-Chloro-3-methylphenol	ug/L	-	-	-	0.21 U	-	0.20 U	-	-	0.20 U	-
4-Chloroaniline	ug/L	-	-	-	0.21 U	-	0.20 U	-	-	0.20 U	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	0.30 U	-	0.29 U	-	-	0.29 U	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	0.22 U	-	0.21 U	-	-	0.21 U	-
4-Nitrophenol	ug/L	-	-	-	0.29 U	-	0.28 U	-	-	0.28 U	-
Acenaphthene	ug/L	-	-	-	0.044 U	-	0.042 U	-	-	0.042 U	-
Acenaphthylene	ug/L	-	-	-	0.048 U	-	0.046 U	-	-	0.046 U	-
Acetophenone	ug/L	-	-	-	0.34 U	-	0.32 U	-	-	0.32 U	-
Anthracene	ug/L	-	-	-	0.088 U	-	0.084 U	-	-	0.084 U	-
Atrazine	ug/L	-	-	-	0.34 U	-	0.32 U	-	-	0.32 U	-
Benzaldehyde	ug/L	-	-	-	0.39 U	-	0.37 U	-	-	0.37 U	-
Benzo(a)anthracene	ug/L	-	-	-	0.030 U	-	0.028 U	-	-	0.028 U	-
Benzo(a)pyrene	ug/L	-	-	-	0.051 U	-	0.049 U	-	-	0.049 U	-
Benzo(b)fluoranthene	ug/L	-	-	-	0.039 U	-	0.038 U	-	-	0.038 U	-
Benzo(g,h,i)perylene	ug/L	-	-	-	0.046 U	-	0.044 U	-	-	0.044 U	-
Benzo(k)fluoranthene	ug/L	-	-	-	0.045 U	-	0.043 U	-	-	0.043 U	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	0.13 U	-	0.12 U	-	-	0.12 U	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	0.32 U	-	0.30 U	-	-	0.30 U	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	0.10 U	-	0.095 U	-	-	0.095 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	1.7 U	-	1.6 U	-	-	1.6 U	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	0.26 U	-	0.25 U	-	-	0.25 U	-
Caprolactam	ug/L	-	-	-	0.20 U	-	0.19 U	-	-	0.34 J	-
Carbazole	ug/L	-	-	-	0.28 U	-	0.27 U	-	-	0.27 U	-
Chrysene	ug/L	-	-	-	0.050 U	-	0.048 U	-	-	0.048 U	-
Dibenz(a,h)anthracene	ug/L	-	-	-	0.045 U	-	0.042 U	-	-	0.042 U	-
Dibenzofuran	ug/L	-	-	-	0.020 U	-	0.019 U	-	-	0.019 U	-
Diethyl phthalate	ug/L	-	-	-	0.60 U	-	0.57 U	-	-	0.57 U	-
Dimethyl phthalate	ug/L	-	-	-	0.29 U	-	0.28 U	-	-	0.28 U	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	1.7 U	-	1.6 U	-	-	1.6 U	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	0.23 U	-	0.22 U	-	-	0.22 U	-
Fluoranthene	ug/L	-	-	-	0.045 U	-	0.042 U	-	-	0.042 U	-
Fluorene	ug/L	-	-	-	0.041 U	-	0.039 U	-	-	0.039 U	-
Hexachlorobenzene	ug/L	-	-	-	0.085 U	-	0.081 U	-	-	0.081 U	-
Hexachlorobutadiene	ug/L	-	-	-	0.27 U	-	0.26 U	-	-	0.26 U	-
Hexachlorocyclopentadiene	ug/L	-	-	-	0.24 U	-	0.23 U	-	-	0.23 U	-
Hexachloroethane	ug/L	-	-	-	0.19 U	-	0.18 U	-	-	0.18 U	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	0.043 U	-	0.041 U	-	-	0.041 U	-
Isophorone	ug/L	-	-	-	0.27 U	-	0.26 U	-	-	0.26 U	-

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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081	GW-38443-022018-JC-082
Sample Date:		1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018	2/16/2018	2/16/2018	2/19/2018	2/19/2018	2/20/2018
Sample Depth:		30-35 ft BGS Duplicate	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	-	-	-	0.063 U	-	0.060 U	-	-	0.060 U	-
Nitrobenzene	ug/L	-	-	-	0.040 U	-	0.038 U	-	-	0.038 U	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	0.24 U	-	0.23 U	-	-	0.23 U	-
N-Nitrosodiphenylamine	ug/L	-	-	-	0.31 U	-	0.30 U	-	-	0.30 U	-
Pentachlorophenol	ug/L	-	-	-	0.27 U	-	0.26 U	-	-	0.26 U	-
Phenanthrene	ug/L	-	-	-	0.062 U	-	0.059 U	-	-	0.059 U	-
Phenol	ug/L	-	-	-	0.60 U	-	0.57 U	-	-	0.57 U	-
Pyrene	ug/L	-	-	-	0.042 U	-	0.040 U	-	-	0.040 U	-
Metals											
Aluminum	ug/L	15000 J[b]	41 J	40 J	54	34 U	39 J	270	5400[b]	120	34 U
Aluminum (dissolved)	ug/L	340 J	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Antimony	ug/L	4.1 J[b]	0.57 U	0.57 U	0.57 U	0.57 U	2.3[b]	0.57 U	0.77 J	0.57 U	3.1[b]
Antimony (dissolved)	ug/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	2.1[b]
Arsenic	ug/L	270 J[ab]	2.8 J[b]	3.2 J[b]	3.1 J[b]	3.5 J[b]	0.75 U	2.7 J[b]	33[ab]	0.75 U	0.75 U
Arsenic (dissolved)	ug/L	6.7 J[b]	2.3 J[b]	3.0 J[b]	3.0 J[b]	3.3 J[b]	0.75 U	0.75 U	0.75 U	0.75 U	1.0 J[b]
Barium	ug/L	1200 J[b]	150	110	110	110	120	120	250	110	100
Barium (dissolved)	ug/L	270	150	110	110	110	120	120	150	100	100
Beryllium	ug/L	1.4 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 J	0.31 U	0.37 J
Beryllium (dissolved)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	ug/L	0.95 J[b]	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 J	0.21 U	0.23 J
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	ug/L	500000 J	140000	130000	130000	130000	130000	130000	280000	130000	120000
Calcium (dissolved)	ug/L	140000	140000	130000	130000	130000	120000	130000	120000	120000	120000
Chromium	ug/L	190[a]	1.4 J	4.5	2.7	0.98 U	0.98 U	1.4 J	18	1.3 J	0.98 U
Chromium (dissolved)	ug/L	3.9 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	ug/L	26 J[b]	1.0[b]	0.58 J	0.39 J	0.19 U	3.3[b]	5.2[b]	6.2[b]	1.1[b]	0.74 J[b]
Cobalt (dissolved)	ug/L	1.9 J[b]	0.97 J[b]	0.50 J	0.19 U	0.19 U	3.1[b]	4.9[b]	1.8[b]	0.93 J[b]	0.61 J[b]
Copper	ug/L	110 J[b]	1.7 U	4.4	5.8	3.1	2.0 J	13	90[b]	3.3	1.7 U
Copper (dissolved)	ug/L	2.9 J	1.8 J	1.7 U	2.9	1.7 U	20 J	10	1.8 J	1.9 J	1.7 U
Iron	ug/L	130000 J[b]	3200[b]	1400	3200[b]	2400[b]	430	1200	22000[b]	590	2000[b]
Iron (dissolved)	ug/L	5700 J[b]	2700[b]	1200	2500[b]	2300[b]	210	76 J	330	130	1700[b]
Lead	ug/L	100 J[ab]	0.76 J	0.50 J	0.82 J	0.45 U	0.45 U	0.91 J	21[ab]	0.63 J	0.58 J
Lead (dissolved)	ug/L	1.9 J	0.45 U	0.45 U	0.45 U	0.45 U	1.1	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	ug/L	140000 J	46000	44000	45000	45000	43000	49000	130000	46000	46000
Magnesium (dissolved)	ug/L	48000	45000	46000	44000	45000	43000	48000	62000	45000	46000
Manganese	ug/L	2400 J[b]	350[b]	470[b]	650[b]	450[b]	830[b]	780[b]	980[b]	820[b]	790[b]
Manganese (dissolved)	ug/L	260[b]	340[b]	490[b]	650[b]	440[b]	820[b]	770[b]	450[b]	760[b]	790[b]
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	140 J[b]	1.6 J	4.4	2.4	1.5 U	1.5 U	2.7	17	2.5	2.2
Nickel (dissolved)	ug/L	3.4 J	1.5 U	2.3	1.5 U	1.5 U	1.5 U	2.2	3.8	2.0	2.0
Potassium	ug/L	13000	8400	7700	7400	6700	9600	11000	15000	8900	7700
Potassium (dissolved)	ug/L	9000	8200	8300	7400	6700	9500	10000	14000	8500	7700
Selenium	ug/L	3.9 J	0.89 U	0.89 U	0.89 U	0.89 U	25[b]	22[b]	4.9 J	13[b]	1.0 J
Selenium (dissolved)	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	24[b]	22[b]	3.7 J	13[b]	0.89 U
Silver	ug/L	0.25 J	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.072 J	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	88000	90000	85000	81000	63000	130000	130000	100000	120000	99000
Sodium (dissolved)	ug/L	85000	87000	91000	81000	61000	130000	130000	110000	110000	100000
Thallium	ug/L	0.57 J[b]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 J[b]	0.20 U	0.21 J[b]
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

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Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081	GW-38443-022018-JC-082
Sample Date:		1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018	2/16/2018	2/16/2018	2/19/2018	2/19/2018	2/20/2018
Sample Depth:		30-35 ft BGS Duplicate	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Vanadium	ug/L	52 J[b]	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	14[b]	0.82 U	0.82 U
Vanadium (dissolved)	ug/L	1.5 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	ug/L	2700 J[b]	360	610[b]	760[b]	650[b]	160	1300[b]	4700[b]	720[b]	590
Zinc (dissolved)	ug/L	650[b]	340	560	730[b]	580	110	1400[b]	4400[b]	690[b]	580
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	0.050 UJ	-	0.049 U	-	-	0.048 U	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	0.090 UJ	-	0.087 UJ	-	-	0.086 UJ	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	0.070 UJ	-	0.068 U	-	-	0.067 U	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	0.060 UJ	-	0.058 U	-	-	0.057 U	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	0.050 UJ	-	0.049 U	-	-	0.048 U	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	0.030 UJ	-	0.029 UJ	-	-	0.029 UJ	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	0.040 UJ	-	0.039 U	-	-	0.038 U	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	0.019 U	-	0.017 U	-	-	0.017 U	-
4,4'-DDE	ug/L	-	-	-	0.013 U	-	0.011 U	-	-	0.011 U	-
4,4'-DDT	ug/L	-	-	-	0.018 U	-	0.016 U	-	-	0.016 U	-
Aldrin	ug/L	-	-	-	0.014 U	-	0.012 U	-	-	0.012 U	-
alpha-BHC	ug/L	-	-	-	0.015 U	-	0.013 U	-	-	0.013 U	-
alpha-Chlordane	ug/L	-	-	-	0.013 U	-	0.011 U	-	-	0.011 U	-
beta-BHC	ug/L	-	-	-	0.019 U	-	0.017 U	-	-	0.017 U	-
delta-BHC	ug/L	-	-	-	0.031 U	-	0.028 U	-	-	0.028 U	-
Dieldrin	ug/L	-	-	-	0.014 U	-	0.012 U	-	-	0.012 U	-
Endosulfan I	ug/L	-	-	-	0.017 U	-	0.015 U	-	-	0.015 U	-
Endosulfan II	ug/L	-	-	-	0.016 U	-	0.014 U	-	-	0.014 U	-
Endosulfan sulfate	ug/L	-	-	-	0.016 U	-	0.014 U	-	-	0.014 U	-
Endrin	ug/L	-	-	-	0.014 U	-	0.012 U	-	-	0.012 U	-
Endrin aldehyde	ug/L	-	-	-	0.019 U	-	0.017 U	-	-	0.017 U	-
Endrin ketone	ug/L	-	-	-	0.017 U	-	0.015 U	-	-	0.015 U	-
gamma-BHC (lindane)	ug/L	-	-	-	0.014 U	-	0.012 U	-	-	0.012 U	-
gamma-Chlordane	ug/L	-	-	-	0.014 U	-	0.012 U	-	-	0.012 U	-
Heptachlor	ug/L	-	-	-	0.015 U	-	0.013 U	-	-	0.013 U	-
Heptachlor epoxide	ug/L	-	-	-	0.016 U	-	0.014 U	-	-	0.014 U	-
Methoxychlor	ug/L	-	-	-	0.014 U	-	0.012 U	-	-	0.012 U	-
Toxaphene	ug/L	-	-	-	0.21 U	-	0.19 U	-	-	0.19 U	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	180000	180000	180000	180000	160000	200000	210000	180000	180000	170000
Cyanide (total)	ug/L	-	-	-	6 U	-	580[ab]	-	-	6 U	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-34**	**VAS-34**	**VAS-34**	**VAS-34**	**VAS-34**
Sample ID:		**GW-38443-011018-KVM-033**	**GW-38443-011018-KVM-034**	**GW-38443-011018-KVM-035**	**GW-38443-011118-KVM-036**	**GW-38443-011118-KVM-037**	**GW-38443-021618-JC-078**	**GW-38443-021618-JC-079**	**GW-38443-021918-JC-080**	**GW-38443-021918-JC-081**	**GW-38443-022018-JC-082**
Sample Date:		**1/10/2018**	**1/10/2018**	**1/10/2018**	**1/11/2018**	**1/11/2018**	**2/16/2018**	**2/16/2018**	**2/19/2018**	**2/19/2018**	**2/20/2018**
Sample Depth:		**30-35 ft BGS Duplicate**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	14 U	20 J	29 J	14 U	14 U	2200	2100	480	760	46 J
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	35 J	88 J	14 U	17 J	14 U
Sulfate	ug/L	49000	61000	79000	86000	87000	81000	80000	85000	85000	85000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-37	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38
Sample ID:		GW-38443-091818-JC-172	GW-038443-020718-KVM-066	GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070	GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		9/18/2018	2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/8/2018	2/8/2018	2/8/2018	2/9/2018
Sample Depth:		25-30 ft BGS	15-20 ft BGS	20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	0.96 UJ	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	15 J	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.52 UJ	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	8.0 U	13 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.36 UJ	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	8.5 U	14 U	0.34 U
1,1-Dichloroethane	ug/L	1.5 J	0.25 U	0.47 J	0.48 J	2.0	0.72 J	0.25 U	13 J[b]	23 J[b]	1.1
1,1-Dichloroethene	ug/L	0.76 UJ	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	6.8 U	11 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	1.0 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	6.8 UJ	11 UJ	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	1.1 J	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	6.5 U	10 U	0.26 U
1,2-Dichloroethane	ug/L	0.84 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.60 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.60 UJ	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	8.0 U	13 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.64 UJ	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	9.2 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	4.6 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.2 J	1.0 U	26 U	41 U	1.0 U
2-Hexanone	ug/L	2.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	31 U	49 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	21 J	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	18 U	28 U	0.71 U
Acetone	ug/L	22 UJ	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	44 UJ	70 UJ	1.8 U
Benzene	ug/L	1.1 J[b]	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	7.0 U	11 U	0.28 U
Bromodichloromethane	ug/L	0.68 UJ	0.30 U	0.36 J[b]	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U
Bromoform	ug/L	3.0 UJ	0.43 UJ	0.43 UJ	0.43 UJ	0.43 UJ	0.43 UJ	0.43 U	11 U	17 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	1.7 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	11 U	17 U	0.42 UJ
Carbon disulfide	ug/L	1.1 UJ	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	8.5 U	14 U	0.34 U
Carbon tetrachloride	ug/L	1.0 UJ	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	8.8 U	14 U	0.35 UJ
Chlorobenzene	ug/L	10 J[b]	0.32 U	0.32 U	0.32 U	0.32 U	0.36 J	1.5	8.0 U	13 U	0.32 U
Chloroethane	ug/L	3.3 UJ	0.69 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ	10 UJ	16 UJ	0.70 J
Chloroform (Trichloromethane)	ug/L	0.52 UJ	0.31 U	0.32 J[b]	0.31 U	0.31 U	0.31 U	0.31 U	7.8 U	12 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.80 UJ	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	11 U	17 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.64 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	190[ab]	520 J[ab]	12[b]
cis-1,3-Dichloropropene	ug/L	2.4 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	6.5 U	10 U	0.26 U
Cyclohexane	ug/L	0.96 UJ	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	11 U	18 U	0.44 U
Dibromochloromethane	ug/L	1.6 UJ	0.25 U	0.32 J	0.25 U	0.25 U	0.25 U	0.25 U	6.3 U	10 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.4 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	13 U	20 U	0.50 UJ
Ethylbenzene	ug/L	4.5 J[b]	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	6.5 U	10 U	0.26 U
Isopropyl benzene	ug/L	1.7 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	5.3 U	8.4 U	0.21 U
m&p-Xylenes	ug/L	12 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.0 U	9.6 U	0.24 U
Methyl acetate	ug/L	6.9 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	36 U	57 U	1.4 U
Methyl cyclohexane	ug/L	1.3 UJ	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	11 U	18 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.28 UJ	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	6.8 U	11 U	0.27 U
Methylene chloride	ug/L	10 UJ	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	22 U	36 U	0.53 U
o-Xylene	ug/L	6.6 J	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	7.0 U	11 U	0.28 U
Styrene	ug/L	0.40 UJ	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	9.2 U	0.23 U
Tetrachloroethene	ug/L	0.60 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U
Toluene	ug/L	82 J	0.50 J	1.1	0.82 J	0.83 J	0.23 U	0.32 J	5.8 U	9.2 U	0.23 U
trans-1,2-Dichloroethene	ug/L	0.76 UJ	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	7.3 U	12 U	0.29 U
trans-1,3-Dichloropropene	ug/L	2.7 UJ	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	7.8 U	12 U	0.31 U
Trichloroethene	ug/L	2.4 J[b]	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	8.3 U	13 U	0.33 U
Trichlorofluoromethane (CFC-11)	ug/L	1.8 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	13 U	20 U	0.50 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	1.6 UJ	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	10 U	16 U	0.41 UJ
Vinyl chloride	ug/L	0.80 UJ	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	230[ab]	270 J[ab]	20[ab]
Xylenes (total)	ug/L	19 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.0 U	9.6 U	0.24 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	2.6 U	0.41 U	-	-	-	-	-	-	-	0.39 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-37	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38
Sample ID:		GW-38443-091818-JC-172	GW-038443-020718-KVM-066	GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070	GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		9/18/2018	2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/8/2018	2/8/2018	2/8/2018	2/9/2018
Sample Depth:		25-30 ft BGS	15-20 ft BGS	20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4,5-Trichlorophenol	ug/L	9.6 U	0.31 U	-	-	-	-	-	-	-	0.29 U
2,4,6-Trichlorophenol	ug/L	8.7 U	0.24 U	-	-	-	-	-	-	-	0.23 U
2,4-Dichlorophenol	ug/L	1.3 U	0.19 U	-	-	-	-	-	-	-	0.18 U
2,4-Dimethylphenol	ug/L	2.5 U	0.26 U	-	-	-	-	-	-	-	0.24 U
2,4-Dinitrophenol	ug/L	30 U	0.33 U	-	-	-	-	-	-	-	0.31 U
2,4-Dinitrotoluene	ug/L	10 U	0.26 U	-	-	-	-	-	-	-	0.24 U
2,6-Dinitrotoluene	ug/L	10 U	0.82 U	-	-	-	-	-	-	-	0.78 U
2-Chloronaphthalene	ug/L	2.3 U	0.10 U	-	-	-	-	-	-	-	0.097 U
2-Chlorophenol	ug/L	1.3 U	0.30 U	-	-	-	-	-	-	-	0.28 U
2-Methylnaphthalene	ug/L	0.53 U	0.092 U	-	-	-	-	-	-	-	0.088 U
2-Methylphenol	ug/L	1.0 U	0.17 U	-	-	-	-	-	-	-	0.17 U
2-Nitroaniline	ug/L	2.5 U	0.21 U	-	-	-	-	-	-	-	0.20 U
2-Nitrophenol	ug/L	2.7 U	0.29 U	-	-	-	-	-	-	-	0.27 U
3&4-Methylphenol	ug/L	0.92 U	0.82 U	-	-	-	-	-	-	-	0.78 U
3,3'-Dichlorobenzidine	ug/L	5.5 U	0.38 U	-	-	-	-	-	-	-	0.36 U
3-Nitroaniline	ug/L	2.7 U	0.29 U	-	-	-	-	-	-	-	0.27 U
4,6-Dinitro-2-methylphenol	ug/L	14 U	2.4 U	-	-	-	-	-	-	-	2.3 U
4-Bromophenyl phenyl ether	ug/L	2.4 U	0.22 U	-	-	-	-	-	-	-	0.21 U
4-Chloro-3-methylphenol	ug/L	1.4 U	0.21 U	-	-	-	-	-	-	-	0.20 U
4-Chloroaniline	ug/L	1.5 U	0.21 U	-	-	-	-	-	-	-	0.20 U
4-Chlorophenyl phenyl ether	ug/L	2.6 U	0.31 U	-	-	-	-	-	-	-	0.29 U
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	4.4 U	0.22 U	-	-	-	-	-	-	-	0.21 U
4-Nitrophenol	ug/L	10 U	0.30 U	-	-	-	-	-	-	-	0.28 U
Acenaphthene	ug/L	0.83 U	0.045 U	-	-	-	-	-	-	-	0.043 U
Acenaphthylene	ug/L	0.60 U	0.049 U	-	-	-	-	-	-	-	0.047 U
Acetophenone	ug/L	1.8 U	0.35 U	-	-	-	-	-	-	-	0.33 U
Anthracene	ug/L	0.65 U	0.090 U	-	-	-	-	-	-	-	0.085 U
Atrazine	ug/L	4.6 U	0.35 U	-	-	-	-	-	-	-	0.33 U
Benzaldehyde	ug/L	3.6 U	0.40 U	-	-	-	-	-	-	-	0.38 U
Benzo(a)anthracene	ug/L	0.82 U	0.030 U	-	-	-	-	-	-	-	0.029 U
Benzo(a)pyrene	ug/L	0.83 U	0.052 U	-	-	-	-	-	-	-	0.050 U
Benzo(b)fluoranthene	ug/L	0.74 U	0.040 U	-	-	-	-	-	-	-	0.038 U
Benzo(g,h,i)perylene	ug/L	0.86 U	0.047 U	-	-	-	-	-	-	-	0.045 U
Benzo(k)fluoranthene	ug/L	0.67 U	0.046 U	-	-	-	-	-	-	-	0.043 U
Biphenyl (1,1-Biphenyl)	ug/L	2.4 U	0.13 U	-	-	-	-	-	-	-	0.13 U
bis(2-Chloroethoxy)methane	ug/L	2.2 U	0.33 U	-	-	-	-	-	-	-	0.31 U
bis(2-Chloroethyl)ether	ug/L	1.9 U	0.10 U	-	-	-	-	-	-	-	0.097 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	160[ab]	1.7 U	-	-	-	-	-	-	-	1.7 U
Butyl benzylphthalate (BBP)	ug/L	3.2 U	0.27 U	-	-	-	-	-	-	-	0.25 U
Caprolactam	ug/L	4.5 U	0.20 U	-	-	-	-	-	-	-	0.19 U
Carbazole	ug/L	2.4 U	0.29 U	-	-	-	-	-	-	-	0.27 U
Chrysene	ug/L	0.89 U	0.051 U	-	-	-	-	-	-	-	0.049 U
Dibenz(a,h)anthracene	ug/L	0.73 U	0.046 U	-	-	-	-	-	-	-	0.043 U
Dibenzofuran	ug/L	2.7 U	0.020 U	-	-	-	-	-	-	-	0.019 U
Diethyl phthalate	ug/L	18 U	0.68 J	-	-	-	-	-	-	-	0.94 J
Dimethyl phthalate	ug/L	2.5 U	0.30 U	-	-	-	-	-	-	-	0.28 U
Di-n-butylphthalate (DBP)	ug/L	8.7 U	1.7 U	-	-	-	-	-	-	-	1.7 U
Di-n-octyl phthalate (DnOP)	ug/L	3.9 U	0.23 U	-	-	-	-	-	-	-	0.23 U
Fluoranthene	ug/L	0.77 U	0.046 U	-	-	-	-	-	-	-	0.043 U
Fluorene	ug/L	0.81 U	0.041 U	-	-	-	-	-	-	-	0.039 U
Hexachlorobenzene	ug/L	0.77 U	0.087 U	-	-	-	-	-	-	-	0.083 U
Hexachlorobutadiene	ug/L	2.6 U	0.28 U	-	-	-	-	-	-	-	0.26 U
Hexachlorocyclopentadiene	ug/L	8.4 U	0.24 U	-	-	-	-	-	-	-	0.23 U
Hexachloroethane	ug/L	1.9 U	0.19 U	-	-	-	-	-	-	-	0.18 U
Indeno(1,2,3-cd)pyrene	ug/L	0.65 U	0.044 U	-	-	-	-	-	-	-	0.042 U
Isophorone	ug/L	1.6 U	0.28 U	-	-	-	-	-	-	-	0.26 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-37	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38
Sample ID:		GW-38443-091818-JC-172	GW-038443-020718-KVM-066	GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070	GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		9/18/2018	2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/8/2018	2/8/2018	2/8/2018	2/9/2018
Sample Depth:		25-30 ft BGS	15-20 ft BGS	20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Naphthalene	ug/L	1.9[b]	0.064 U	-	-	-	-	-	-	-	0.061 U
Nitrobenzene	ug/L	2.5 U	0.041 U	-	-	-	-	-	-	-	0.039 U
N-Nitrosodi-n-propylamine	ug/L	1.2 U	0.24 U	-	-	-	-	-	-	-	0.23 U
N-Nitrosodiphenylamine	ug/L	2.1 U	0.32 U	-	-	-	-	-	-	-	0.30 U
Pentachlorophenol	ug/L	15 U	0.28 U	-	-	-	-	-	-	-	0.26 U
Phenanthrene	ug/L	0.80 U	0.063 U	-	-	-	-	-	-	-	0.060 U
Phenol	ug/L	0.62 U	0.61 U	-	-	-	-	-	-	-	0.58 U
Pyrene	ug/L	0.84 U	0.043 U	-	-	-	-	-	-	-	0.041 U
Metals											
Aluminum	ug/L	9900[b]	6200[b]	15000 J[b]	5600 J[b]	2300[b]	1300	880	190	64	85
Aluminum (dissolved)	ug/L	34 U	34 U	110 J	430 J	580	280	34 U	34 U	34 U	34 U
Antimony	ug/L	13[ab]	2.3[b]	1.2 J[b]	1.1 J[b]	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	ug/L	0.57 U	1.5 J[b]	0.57 U	0.74 J	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	ug/L	48[ab]	23[ab]	21 J[ab]	9.2 J[b]	7.5[b]	11[ab]	5.8[b]	2.7 J[b]	1.1 J[b]	5.2[b]
Arsenic (dissolved)	ug/L	31[ab]	16[ab]	3.4 J[b]	3.5 J[b]	5.8[b]	11[ab]	5.2[b]	2.7 J[b]	0.75 U	5.2[b]
Barium	ug/L	1500[b]	500[b]	540[b]	420[b]	450[b]	730[b]	1300[b]	960[b]	490[b]	500[b]
Barium (dissolved)	ug/L	1400[b]	460[b]	370	360	410[b]	700[b]	1300[b]	970[b]	490[b]	510[b]
Beryllium	ug/L	0.82 J	0.58 J	0.90 J	0.41 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	ug/L	4.0[b]	0.38 J	0.40 J	0.25 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	ug/L	130000	110000	220000 J	120000 J	86000	80000	70000	47000	53000	65000
Calcium (dissolved)	ug/L	40000	83000	78000	76000	76000	67000	61000	46000	51000	65000
Chromium	ug/L	33	36	35 J	13 J	4.0	3.5	2.0	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	ug/L	0.98 U	0.98 U	0.98 U	1.3 J	1.3 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	ug/L	9.4[b]	4.7[b]	14 J[b]	5.4 J[b]	2.4[b]	1.3[b]	0.66 J[b]	0.30 J	0.87 J[b]	0.40 J
Cobalt (dissolved)	ug/L	0.42 J	0.76 J[b]	1.7[b]	1.9[b]	1.5[b]	0.59 J	0.19 U	0.19 J	0.84 J[b]	0.35 J
Copper	ug/L	170[b]	24	58 J	18 J	7.9	12	3.2	1.7 J	1.7 UJ	1.7 U
Copper (dissolved)	ug/L	1.7 U	1.7 U	7.0 J	2.6 J	6.0	2.5	1.7 U	1.7 U	20 J	2.4
Iron	ug/L	32000[b]	19000[b]	35000 J[b]	11000 J[b]	4500[b]	3700[b]	3300[b]	1000	360	2300[b]
Iron (dissolved)	ug/L	1600[b]	6800[b]	710 J	1500 J[b]	1600[b]	1600[b]	1200	700	180	2100[b]
Lead	ug/L	340[ab]	14	27 J[ab]	6.6 J	2.0	2.1	1.1	0.45 U	0.59 J	0.45 U
Lead (dissolved)	ug/L	0.45 U	0.45 U	0.64 J	0.89 J	0.80 J	0.45 J	0.45 U	0.45 U	1.5	0.45 U
Magnesium	ug/L	100000	58000	95000	58000	49000	49000	47000	43000	42000	42000
Magnesium (dissolved)	ug/L	73000	47000	46000	44000	44000	43000	44000	43000	40000	42000
Manganese	ug/L	580[b]	1300[b]	1000 J[b]	410 J[b]	170[b]	55[b]	38	19	45[b]	31
Manganese (dissolved)	ug/L	39	260[b]	210[b]	210[b]	140[b]	29	12	14	41	29
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.18 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	46[b]	13	36 J	14 J	6.1	3.9	2.3	1.5 U	3.6	3.2
Nickel (dissolved)	ug/L	4.3	1.5 U	3.0	3.4	3.1	1.7 J	1.5 U	1.5 U	3.5	3.0
Potassium	ug/L	62000	17000	17000	14000	14000	17000	18000	21000	19000	16000
Potassium (dissolved)	ug/L	65000	16000	13000	12000	13000	16000	18000	22000	18000	16000
Selenium	ug/L	2.8 J	1.6 J	3.1 J	1.2 J	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	ug/L	0.33 J	0.053 U	0.060 J	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	90000	30000	31000	31000	34000	35000	37000	42000	61000	61000
Sodium (dissolved)	ug/L	99000	31000	33000	31000	34000	33000	37000	43000	62000	62000
Thallium	ug/L	0.35 J[b]	0.40 J[b]	0.58 J[b]	0.26 J[b]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-37**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**
Sample ID:		**GW-38443-091818-JC-172**	**GW-038443-020718-KVM-066**	**GW-038443-020718-KVM-067**	**GW-038443-020718-KVM-068**	**GW-038443-020718-KVM-069**	**GW-038443-020718-KVM-070**	**GW-38443-020818-JC-071**	**GW-38443-020818-JC-072**	**GW-38443-020818-JC-073**	**GW-38443-020918-JC-074**
Sample Date:		**9/18/2018**	**2/7/2018**	**2/7/2018**	**2/7/2018**	**2/7/2018**	**2/7/2018**	**2/8/2018**	**2/8/2018**	**2/8/2018**	**2/9/2018**
Sample Depth:		**25-30 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD Duplicate**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Vanadium	ug/L	31[b]	14[b]	37 J[b]	14 J[b]	5.2	3.5 J	2.0 J	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	ug/L	0.82 U	0.82 U	0.82 U	1.2 J	1.5 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	ug/L	1200[b]	360	560 J	290 J	360	300	210	190	180	280
Zinc (dissolved)	ug/L	270	260	240	220	350	100	130	170	210	270
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	0.053 U	0.052 U	-	-	-	-	-	-	-	0.050 U
Aroclor-1221 (PCB-1221)	ug/L	0.054 U	0.094 U	-	-	-	-	-	-	-	0.090 U
Aroclor-1232 (PCB-1232)	ug/L	0.070 U	0.073 U	-	-	-	-	-	-	-	0.070 U
Aroclor-1242 (PCB-1242)	ug/L	0.072 U	0.063 U	-	-	-	-	-	-	-	0.060 U
Aroclor-1248 (PCB-1248)	ug/L	0.048 U	0.052 U	-	-	-	-	-	-	-	0.050 U
Aroclor-1254 (PCB-1254)	ug/L	0.038 U	0.031 U	-	-	-	-	-	-	-	0.030 U
Aroclor-1260 (PCB-1260)	ug/L	0.044 U	0.042 U	-	-	-	-	-	-	-	0.040 U
Pesticides											
4,4'-DDD	ug/L	0.28 U	0.018 U	-	-	-	-	-	-	-	0.018 U
4,4'-DDE	ug/L	0.23 U	0.012 U	-	-	-	-	-	-	-	0.012 U
4,4'-DDT	ug/L	0.26 U	0.017 U	-	-	-	-	-	-	-	0.017 U
Aldrin	ug/L	0.13 U	0.013 U	-	-	-	-	-	-	-	0.013 U
alpha-BHC	ug/L	0.11 U	0.014 U	-	-	-	-	-	-	-	0.014 U
alpha-Chlordane	ug/L	0.17 U	0.012 U	-	-	-	-	-	-	-	0.012 U
beta-BHC	ug/L	0.24 U	0.018 U	-	-	-	-	-	-	-	0.018 U
delta-BHC	ug/L	0.23 U	0.029 U	-	-	-	-	-	-	-	0.029 U
Dieldrin	ug/L	0.12 U	0.013 U	-	-	-	-	-	-	-	0.013 U
Endosulfan I	ug/L	0.20 U	0.016 U	-	-	-	-	-	-	-	0.016 U
Endosulfan II	ug/L	0.12 U	0.015 U	-	-	-	-	-	-	-	0.015 U
Endosulfan sulfate	ug/L	0.20 U	0.015 U	-	-	-	-	-	-	-	0.015 U
Endrin	ug/L	0.13 U	0.013 U	-	-	-	-	-	-	-	0.013 U
Endrin aldehyde	ug/L	0.24 U	0.018 U	-	-	-	-	-	-	-	0.018 U
Endrin ketone	ug/L	0.21 U	0.016 U	-	-	-	-	-	-	-	0.016 U
gamma-BHC (lindane)	ug/L	0.13 U	0.013 U	-	-	-	-	-	-	-	0.013 U
gamma-Chlordane	ug/L	0.27 U	0.013 U	-	-	-	-	-	-	-	0.013 U
Heptachlor	ug/L	0.18 U	0.014 U	-	-	-	-	-	-	-	0.014 U
Heptachlor epoxide	ug/L	0.14 U	0.015 U	-	-	-	-	-	-	-	0.015 U
Methoxychlor	ug/L	0.25 U	0.013 U	-	-	-	-	-	-	-	0.013 U
Toxaphene	ug/L	3.1 U	0.19 U	-	-	-	-	-	-	-	0.19 U
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
Petroleum Products											
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	76000	22000	25000	24000	24000	21000	24000	39000	53000	57000
Cyanide (total)	ug/L	6 U	6 U	-	-	-	-	-	-	-	6 U
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-37**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**	**VAS-38**
Sample ID:		**GW-38443-091818-JC-172**	**GW-038443-020718-KVM-066**	**GW-038443-020718-KVM-067**	**GW-038443-020718-KVM-068**	**GW-038443-020718-KVM-069**	**GW-038443-020718-KVM-070**	**GW-38443-020818-JC-071**	**GW-38443-020818-JC-072**	**GW-38443-020818-JC-073**	**GW-38443-020918-JC-074**
Sample Date:		**9/18/2018**	**2/7/2018**	**2/7/2018**	**2/7/2018**	**2/7/2018**	**2/7/2018**	**2/8/2018**	**2/8/2018**	**2/8/2018**	**2/9/2018**
Sample Depth:		**25-30 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**20-25 ft BGS Duplicate**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	14 U	14 U	45 J	38 J	29 J	14 U	14 U	14 U	14 U	14 U
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	ug/L	350 U	3700	6400	6000	3900	2300	2700	4000	6500	9200 J
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44
Sample ID:		GW-38443-012518-KVM-051	GW-38443-012618-KVM-052	GW-038443-012918-KVM-053	GW-038443-012918-KVM-054	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057
Sample Date:		1/25/2018	1/26/2018	1/29/2018	1/29/2018	1/29/2018	1/30/2018	1/30/2018
Sample Depth:		25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**							
Volatiles								
1,1,1-Trichloroethane	ug/L	0.23 U	0.23 U	0.23 U	5.8 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.32 U	0.32 UJ	0.32 U	8.0 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.34 U	0.34 U	0.34 U	8.5 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	ug/L	0.25 U	0.25 U	0.25 U	6.3 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	ug/L	0.27 U	0.27 U	0.27 U	6.8 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 U	0.27 U	0.27 UJ	6.8 UJ	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.26 U	0.26 U	6.5 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	0.30 U	0.30 U	7.5 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.30 U	0.30 U	0.30 U	7.5 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	8.0 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.23 U	0.23 U	5.8 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 U	1.6 J	1.0 U	26 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	1.2 U	1.2 U	1.2 U	31 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	0.71 U	0.71 U	18 U	0.71 U	0.71 U	0.71 U
Acetone	ug/L	2.2 J	4.1 J	1.8 U	44 U	1.8 U	1.8 U	1.8 U
Benzene	ug/L	0.47 J[b]	0.83 J[b]	0.28 U	7.0 U	0.98 J[b]	0.49 J[b]	0.48 J[b]
Bromodichloromethane	ug/L	0.30 U	0.30 U	0.30 U	7.5 U	0.34 J[b]	0.30 U	0.30 U
Bromoform	ug/L	0.43 U	0.43 U	0.43 U	11 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	0.42 UJ	0.42 U	0.42 UJ	11 UJ	0.42 UJ	0.42 UJ	0.42 UJ
Carbon disulfide	ug/L	0.34 U	0.34 U	0.34 U	8.5 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	ug/L	0.35 U	0.35 U	0.35 UJ	8.8 UJ	0.35 UJ	0.35 UJ	0.35 UJ
Chlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	8.0 U	0.32 U	0.32 U	0.32 U
Chloroethane	ug/L	0.41 U	0.41 U	0.41 U	10 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	ug/L	0.31 U	0.31 U	0.31 U	7.8 U	0.39 J[b]	0.31 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.43 U	0.43 U	11 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.89 J	3.4	12[b]	220[ab]	3.5	0.95 J	1.0
cis-1,3-Dichloropropene	ug/L	0.26 U	0.26 U	0.26 U	6.5 U	0.26 U	0.26 U	0.26 U
Cyclohexane	ug/L	0.44 U	0.50 J	0.44 U	11 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	ug/L	0.25 U	0.25 U	0.25 U	6.3 U	0.28 J	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 U	0.50 U	0.50 UJ	13 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Ethylbenzene	ug/L	0.26 U	0.37 J	0.26 U	6.5 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	ug/L	0.21 U	0.21 U	0.21 U	5.3 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	0.26 J	0.49 J	0.24 U	6.0 U	0.24 U	0.24 U	0.24 U
Methyl acetate	ug/L	1.4 U	1.4 U	1.4 U	36 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	ug/L	0.45 U	0.45 J	0.45 U	11 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.27 U	0.27 U	6.8 U	0.27 U	0.27 U	0.27 U
Methylene chloride	ug/L	0.53 U	0.53 U	0.53 U	13 U	0.53 U	0.53 U	0.53 U
o-Xylene	ug/L	0.28 U	0.28 U	0.28 U	7.0 U	0.28 U	0.28 U	0.28 U
Styrene	ug/L	0.23 U	0.23 U	0.23 U	5.8 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	0.30 U	0.30 U	0.30 U	7.5 U	0.30 U	0.30 U	0.30 U
Toluene	ug/L	1.9	4.1	0.43 J	5.8 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	ug/L	0.29 U	0.29 U	0.32 J	7.3 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	ug/L	0.31 U	0.31 U	0.31 U	7.8 U	0.31 U	0.31 U	0.31 U
Trichloroethene	ug/L	0.35 J[b]	0.33 U	0.33 U	8.3 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	ug/L	0.50 U	0.50 U	0.50 UJ	13 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	0.41 U	0.41 U	10 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	ug/L	0.45 U	0.45 U	2.5[ab]	250[ab]	2.9[ab]	6.5[ab]	6.8[ab]
Xylenes (total)	ug/L	0.26 J	0.49 J	0.24 U	6.0 U	0.24 U	0.24 U	0.24 U
Semi-Volatiles								
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44
Sample ID:		GW-38443-012518-KVM-051	GW-38443-012618-KVM-052	GW-038443-012918-KVM-053	GW-038443-012918-KVM-054	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057
Sample Date:		1/25/2018	1/26/2018	1/29/2018	1/29/2018	1/29/2018	1/30/2018	1/30/2018
Sample Depth:		25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**							
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-012518-KVM-051**	**GW-38443-012618-KVM-052**	**GW-38443-012918-KVM-053**	**GW-038443-012918-KVM-054**	**GW-038443-012918-KVM-055**	**GW-38443-013018-KVM-056**	**GW-38443-013018-KVM-057**
Sample Date:		**1/25/2018**	**1/26/2018**	**1/29/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**							
Naphthalene	ug/L	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-
Pyrene	ug/L	-	-	-	-	-	-	-
Metals								
Aluminum	ug/L	6300 J[b]	12000 J[b]	400	1200	34 U	290	340
Aluminum (dissolved)	ug/L	880	290	59	34 J	34 U	34 U	34 U
Antimony	ug/L	5.3[b]	8.7[ab]	0.57 U	1.1 J[b]	1.0 J[b]	0.57 U	0.57 U
Antimony (dissolved)	ug/L	2.0 U	1.6 U	0.57 U	0.97 J[b]	1.1 J[b]	0.57 U	0.57 U
Arsenic	ug/L	16[ab]	30[ab]	2.6 J[b]	4.4 J[b]	2.8 J[b]	2.6 J[b]	2.8 J[b]
Arsenic (dissolved)	ug/L	2.2 J[b]	1.3 J[b]	1.9 J[b]	3.3 J[b]	2.9 J[b]	2.6 J[b]	2.8 J[b]
Barium	ug/L	390[b]	610[b]	120	100	1900[b]	4800[ab]	5000[ab]
Barium (dissolved)	ug/L	160	120	110	85	2000[b]	5200[ab]	5100[ab]
Beryllium	ug/L	1.2	1.2	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	ug/L	0.41 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	ug/L	2.1[b]	1.9[b]	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	ug/L	0.37 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	ug/L	310000	420000	100000	120000	85000	19000	21000
Calcium (dissolved)	ug/L	130000	96000	96000	97000	82000	16000	16000
Chromium	ug/L	17	35	2.2	3.9	0.98 U	1.0 J	1.2 J
Chromium (dissolved)	ug/L	2.4	1.1 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	ug/L	11[b]	15[b]	1.5[b]	3.7[b]	4.7[b]	31[b]	31[b]
Cobalt (dissolved)	ug/L	3.6[b]	1.7[b]	1.1[b]	3.0[b]	4.5[b]	32[b]	33[b]
Copper	ug/L	84[b]	110[b]	3.6	6.8	1.7 J	6.0 J	7.9 J
Copper (dissolved)	ug/L	12	12	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Iron	ug/L	21000[b]	44000[b]	2100[b]	3800[b]	950	760	900
Iron (dissolved)	ug/L	2800[b]	1500[b]	790	1100	850	530	470
Lead	ug/L	140[ab]	150[ab]	4.0	2.5	0.45 U	0.45 U	0.45 U
Lead (dissolved)	ug/L	17[ab]	4.7	0.56 J	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	ug/L	110000	170000	38000	45000	38000	18000	20000
Magnesium (dissolved)	ug/L	47000	45000	35000	35000	37000	18000	18000
Manganese	ug/L	820[b]	1200[b]	370[b]	96[b]	26	15	18
Manganese (dissolved)	ug/L	430[b]	260[b]	350[b]	35	21	7.0	6.4
Manganese 2+	ug/L	-	-	-	-	-	-	-
Mercury	ug/L	0.56[b]	0.36[b]	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	29	47[b]	3.0	4.4	2.1	22	22
Nickel (dissolved)	ug/L	7.9	4.1	1.7 J	1.5 J	2.3	19	19
Potassium	ug/L	9300	11000	6200	4800	7600	7600	7800
Potassium (dissolved)	ug/L	8400	8500	6400	4800	7700	8000	7900
Selenium	ug/L	6.6	20[b]	1.3 J	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	ug/L	5.4	2.4 J	1.1 J	0.89 U	0.89 U	0.89 U	0.89 U
Silver	ug/L	0.20 U	0.20 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	110000	98000	86000	79000	120000	500000	490000
Sodium (dissolved)	ug/L	120000	95000	89000	82000	120000	520000	530000
Thallium	ug/L	0.62 J[b]	0.77 J[b]	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44
Sample ID:		GW-38443-012518-KVM-051	GW-38443-012618-KVM-052	GW-038443-012918-KVM-053	GW-038443-012918-KVM-054	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057
Sample Date:		1/25/2018	1/26/2018	1/29/2018	1/29/2018	1/29/2018	1/30/2018	1/30/2018
Sample Depth:		25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**							
Vanadium	ug/L	22[b]	36[b]	1.2 J	2.8 J	0.82 U	0.83 J	1.0 J
Vanadium (dissolved)	ug/L	3.2 J	1.1 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	ug/L	3500[b]	4300[b]	200	460	260	120 J	140
Zinc (dissolved)	ug/L	2800[b]	2000[b]	140	400	240	160 J	110
PCBs								
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-
Pesticides								
4,4'-DDD	ug/L	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-
Gases								
Ethane	ug/L	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-
Herbicides								
2,4,5-T	ug/L	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-
Petroleum Products								
Total Petroleum Hydrocarbons (C10-C20)	ug/L	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons (C20-C34)	ug/L	-	-	-	-	-	-	-
General Chemistry								
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-
Ammonia-N	ug/L	-	-	-	-	-	-	-
Chloride	ug/L	210000	200000	170000	140000	170000	350000	340000
Cyanide (total)	ug/L	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-

Table 1

Analytical Results for Groundwater Samples
OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-012518-KVM-051**	**GW-38443-012618-KVM-052**	**GW-038443-012918-KVM-053**	**GW-038443-012918-KVM-054**	**GW-038443-012918-KVM-055**	**GW-38443-013018-KVM-056**	**GW-38443-013018-KVM-057**
Sample Date:		**1/25/2018**	**1/26/2018**	**1/29/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**							
Hardness	ug/L	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	2900	580	42 J	36 J	80 J	14 U	14 U
Nitrite (as N)	ug/L	89 J	22 J	14 UJ	14 UJ	14 U	14 U	14 U
Sulfate	ug/L	63000	66000	65000	64000	25000	350 U	350 U
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-
Total organic carbon (TOC)	ug/L	-	-	-	-	-	-	-

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:								MW-209A	MW-209A	MW-209A	MW-209A	MW-210A	MW-210A	MW-210A	MW-210A	MW-210B
Sample ID:								GW-38443-072209-GL-004	GW-38443-010510-DR-007	GW-38443-051315-AS-016	GW-38443-101718-AS-220	GW-38443-122209-DR-004	GW-38443-041410-NZ-012	GW-38443-051515-AS-021	GW-38443-100317-DA-002	GW-38443-122309-DR-006
Sample Date:								7/22/2009	1/5/2010	5/13/2015	10/17/2018	12/22/2009	4/14/2010	5/15/2015	10/3/2017	12/23/2009
Sample Depth:								52-57 ft BGS	52-57 ft BGS	52-57 ft BGS	52-57 ft BGS	80-85 ft BGS	80-85 ft BGS	80-85 ft BGS	80-85 ft BGS	97-102 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**									
Volatiles																
1,1,1-Trichloroethane	ug/L	200	800	212	6	0.24	0.95	1.0 U	1.0 U	1.0 U	0.24 U	1.4 U	1.7 U	1.0 U	0.23 U	40 U
1,1,2,2-Tetrachloroethane	ug/L	-	0.076	212	0	ND	ND	1.0 UJ	1.0 UJ	1.0 U	0.13 U	1.4 UJ	1.7 UJ	1.0 U	0.32 U	40 UJ
1,1,2-Trichloroethane	ug/L	5	0.041	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.090 U	1.4 U	1.7 UJ	1.0 U	0.34 U	40 U
1,1-Dichloroethane	ug/L	-	2.8	212	51	0.17	3.5	1.0 U	1.0 U	1.0 U	0.17 U	1.4 U	1.7 UJ	1.0 U	0.25 U	40 U
1,1-Dichloroethene	ug/L	7	28	212	11	0.26	2.5	1.0 U	1.0 U	1.0 U	0.19 U	1.4 U	1.7 U	1.0 U	0.27 U	40 U
1,2,4-Trichlorobenzene	ug/L	70	0.4	212	0	ND	ND	1.0 UJ	1.0 U	1.0 U	0.26 U	1.4 U	1.7 U	1.0 U	0.27 U	40 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.2	0.00033	212	0	ND	ND	2.0 U	2.0 UJ	2.0 U	0.0086 U	2.9 UJ	3.3 U	2.0 U	0.0084 U	80 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.05	0.0075	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.0087 U	1.4 U	1.7 U	1.0 U	0.0071 U	40 U
1,2-Dichlorobenzene	ug/L	600	30	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.15 U	1.4 U	1.7 U	1.0 U	0.26 U	40 U
1,2-Dichloroethane	ug/L	5	0.17	212	3	0.25	1.2	1.0 U	1.0 U	1.0 U	0.21 U	1.4 U	1.7 UJ	1.0 U	0.30 U	40 U
1,2-Dichloropropane	ug/L	5	0.82	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.15 U	1.4 U	1.7 U	1.0 U	0.30 U	40 U
1,3-Dichlorobenzene	ug/L	-	-	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.15 U	1.4 U	1.7 U	1.0 U	0.32 U	40 U
1,4-Dichlorobenzene	ug/L	75	0.48	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.16 U	1.4 U	1.7 U	1.0 U	0.23 U	40 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	560	212	7	0.66	9.4	10 U	10 U	10 U	1.2 U	14 U	17 UJ	10 U	1.0 U	400 U
2-Hexanone	ug/L	-	3.8	212	0	ND	ND	10 U	10 U	10 U	0.54 U	14 UJ	17 UJ	10 U	1.2 U	400 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	630	212	6	0.57	2	10 U	10 U	10 U	0.42 U	14 UJ	17 UJ	10 U	0.71 U	400 U
Acetone	ug/L	-	1400	212	1	4.1	4.1	10 U	10 U	10 U	5.4 U	14 U	17 UJ	10 U	1.8 U	400 U
Benzene	ug/L	5	0.46	212	39	0.23	1100	1.0 U	1.0 U	1.0 U	0.13 U	1.4 U	1.7 U	1.0 U	0.28 U	1100[ab]
Bromodichloromethane	ug/L	80	0.13	212	4	0.5	1.1	1.0 U	1.0 UJ	1.0 U	0.17 U	1.4 U	1.7 U	1.0 U	0.30 U	40 U
Bromoform	ug/L	80	3.3	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.76 U	1.4 U	1.7 U	1.0 U	0.43 U	40 U
Bromomethane (Methyl bromide)	ug/L	-	0.75	211	0	ND	ND	1.0 U	1.0 U	1.0 UJ	0.42 U	1.4 UJ	1.7 U	1.0 U	0.42 U	40 U
Carbon disulfide	ug/L	-	81	212	7	0.29	0.85	1.0 UJ	1.0 U	1.0 U	0.28 U	1.4 U	1.7 U	1.0 U	0.34 U	40 U
Carbon tetrachloride	ug/L	5	0.46	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.26 U	1.4 U	1.7 U	1.0 U	0.35 UJ	40 U
Chlorobenzene	ug/L	100	7.8	212	3	0.23	0.36	1.0 U	1.0 U	1.0 U	0.14 U	1.4 U	1.7 U	1.0 U	0.32 U	40 U
Chloroethane	ug/L	-	2100	211	5	0.36	1.4	1.0 U	1.0 UJ	1.0 U	0.83 U	1.4 UJ	1.7 U	1.0 U	0.41 UJ	40 U
Chloroform (Trichloromethane)	ug/L	80	0.22	212	18	0.13	1.8	1.0 U	1.0 U	1.0 U	0.13 U	1.4 U	1.7 UJ	1.0 U	0.31 U	40 U
Chloromethane (Methyl chloride)	ug/L	-	19	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.20 U	1.4 UJ	1.7 U	1.0 U	0.43 U	40 U
cis-1,2-Dichloroethene	ug/L	70	3.6	212	124	0.21	650	1.1	1.0 U	1.9	2.6 U	1.5	1.0 J	1.0 U	0.30 U	40 U
cis-1,3-Dichloropropene	ug/L	-	-	212	0	ND	ND	1.0 UJ	1.0 UJ	1.0 U	0.61 U	1.4 UJ	1.7 U	1.0 U	0.26 U	40 U
Cyclohexane	ug/L	-	1300	212	61	0.12	1.7	1.0 UJ	1.0 U	1.0 U	0.24 U	1.4 U	1.7 U	1.0 U	0.44 U	40 U
Dibromochloromethane	ug/L	80	0.87	212	2	0.57	0.85	1.0 U	1.0 UJ	1.0 U	0.39 U	1.4 U	1.7 U	1.0 U	0.25 U	40 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	20	212	0	ND	ND	1.0 UJ	1.0 UJ	1.0 U	0.35 U	1.4 UJ	1.7 UJ	1.0 U	0.50 U	40 UJ
Ethylbenzene	ug/L	700	1.5	212	3	0.13	0.27	1.0 U	1.0 U	1.0 U	0.11 U	1.4 U	1.7 U	1.0 U	0.26 U	40 U
Isopropyl benzene	ug/L	-	45	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.090 U	1.4 U	1.7 U	1.0 U	0.21 U	40 U
m&p-Xylenes	ug/L	-	-	61	2	0.18	0.41	-	-	-	0.080 U	-	-	-	0.24 U	-
Methyl acetate	ug/L	-	2000	212	0	ND	ND	10 U	10 U	10 U	1.7 U	14 U	17 UJ	10 U	1.4 U	400 U
Methyl cyclohexane	ug/L	-	-	212	4	0.65	1.9	1.0 UJ	1.0 U	1.0 U	0.33 U	1.4 U	1.7 U	1.0 U	0.45 U	40 U
Methyl tert butyl ether (MTBE)	ug/L	-	14	212	10	0.11	0.49	5.0 U	5.0 U	1.0 U	0.070 U	7.2 U	8.4 U	1.0 U	0.27 U	200 U
Methylene chloride	ug/L	5	11	212	3	2	9.8	1.0 U	1.0 U	1.0 U	2.6 U	1.4 U	1.7 U	1.0 U	0.53 U	40 U
o-Xylene	ug/L	-	19	61	0	ND	ND	-	-	-	0.090 U	-	-	-	0.28 U	-
Styrene	ug/L	100	120	212	1	0.9	0.9	1.0 U	1.0 U	1.0 U	0.10 U	1.4 UJ	1.7 U	1.0 U	0.23 U	40 U
Tetrachloroethene	ug/L	5	4.1	212	7	0.19	0.96	1.0 U	1.0 U	1.0 U	0.15 U	1.4 U	1.7 U	1.0 U	0.30 U	40 U
Toluene	ug/L	1000	110	212	119	0.17	8.1	1.0 U	1.0 U	1.0 U	0.14 U	1.4 U	1.7 U	1.0 U	0.23 U	40 U
trans-1,2-Dichloroethene	ug/L	100	36	212	36	0.21	5.9	1.0 U	1.0 U	1.0 U	0.19 U	1.4 U	1.7 U	1.0 U	0.29 U	40 U
trans-1,3-Dichloropropene	ug/L	-	-	212	0	ND	ND	1.0 UJ	1.0 UJ	1.0 U	0.67 U	1.4 UJ	1.7 UJ	1.0 U	0.31 U	40 U
Trichloroethene	ug/L	5	0.28	212	49	0.31	220	1.0 U	1.0 U	1.0 U	0.10 U	1.4 U	1.7 U	1.0 U	0.33 U	40 U
Trichlorofluoromethane (CFC-11)	ug/L	-	520	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.45 U	1.4 U	1.7 U	1.0 U	0.50 U	40 U
Trifluorotrichloroethane (CFC-113)	ug/L	-	1000	212	0	ND	ND	1.0 U	1.0 U	1.0 U	0.41 U	1.4 U	1.7 U	1.0 U	0.41 U	40 U
Vinyl chloride	ug/L	2	0.019	212	147	0.28	350	19[ab]	11[ab]	9.3[ab]	3.8[ab]	55 J[ab]	54 J[ab]	32[ab]	24[ab]	40 U
Xylenes (total)	ug/L	10000	19	212	5	0.18	0.84	2.0 U	2.0 U	2.0 U	0.15 U	2.9 U	3.3 U	2.0 U	0.24 U	80 U
Semi-Volatiles																
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	71	44	0	ND	ND	1.0 U	1.0 U	-	0.55 U	1.0 U	1.0 U	-	0.42 U	1.0 U
2,4,5-Trichlorophenol	ug/L	-	120	44	0	ND	ND	5.0 U	5.0 U	-	2.0 U	5.0 U	5.0 U	-	0.32 U	5.0 U
2,4,6-Trichlorophenol	ug/L	-	1.2	44	0	ND	ND	5.0 U	5.0 U	-	1.8 U	5.0 U	5.0 U	-	0.25 U	5.0 U
2,4-Dichlorophenol	ug/L	-	4.6	44	0	ND	ND	2.0 U	2.0 U	-	0.26 U	2.0 U	2.0 U	-	0.20 U	2.0 U
2,4-Dimethylphenol	ug/L	-	36	44	0	ND	ND	2.0 U	2.0 U	-	0.51 U	2.0 U	2.0 U	-	0.26 U	2.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:								MW-209A	MW-209A	MW-209A	MW-209A	MW-210A	MW-210A	MW-210A	MW-210A	MW-210B
Sample ID:								GW-38443-072209-GL-004	GW-38443-010510-DR-007	GW-38443-051315-AS-016	GW-38443-101718-AS-220	GW-38443-122209-DR-004	GW-38443-041410-NZ-012	GW-38443-051515-AS-021	GW-38443-100317-DA-002	GW-38443-122309-DR-006
Sample Date:								7/22/2009	1/5/2010	5/13/2015	10/17/2018	12/22/2009	4/14/2010	5/15/2015	10/3/2017	12/23/2009
Sample Depth:								52-57 ft BGS	52-57 ft BGS	52-57 ft BGS	52-57 ft BGS	80-85 ft BGS	80-85 ft BGS	80-85 ft BGS	80-85 ft BGS	97-102 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**									
2,4-Dinitrophenol	ug/L	-	3.9	44	0	ND	ND	5.0 U	5.0 U	-	6.1 U	5.0 U	5.0 U	-	0.34 U	5.0 U
2,4-Dinitrotoluene	ug/L	-	0.24	44	0	ND	ND	5.0 U	5.0 U	-	2.0 U	5.0 U	5.0 U	-	0.26 U	5.0 U
2,6-Dinitrotoluene	ug/L	-	0.049	44	0	ND	ND	5.0 U	5.0 U	-	2.1 U	5.0 U	5.0 U	-	0.84 U	5.0 U
2-Chloronaphthalene	ug/L	-	75	44	0	ND	ND	1.0 U	1.0 U	-	0.48 U	1.0 U	1.0 U	-	0.11 U	1.0 U
2-Chlorophenol	ug/L	-	9.1	44	0	ND	ND	1.0 U	1.0 U	-	0.27 U	1.0 U	1.0 U	-	0.31 U	1.0 U
2-Methylnaphthalene	ug/L	-	3.6	44	1	0.26	0.26	0.20 U	0.20 U	-	0.11 U	0.20 U	0.20 U	-	0.095 U	0.20 U
2-Methylphenol	ug/L	-	93	44	0	ND	ND	1.0 U	1.0 U	-	0.21 U	1.0 U	1.0 U	-	0.18 U	1.0 U
2-Nitroaniline	ug/L	-	19	44	0	ND	ND	2.0 U	2.0 U	-	0.50 U	2.0 U	2.0 U	-	0.22 U	2.0 U
2-Nitrophenol	ug/L	-	-	44	0	ND	ND	2.0 U	2.0 U	-	0.56 U	2.0 U	2.0 U	-	0.29 U	2.0 U
3&4-Methylphenol	ug/L	-	-	4	0	ND	ND	-	-	-	0.19 U	-	-	-	0.84 U	-
3,3'-Dichlorobenzidine	ug/L	-	0.13	43	0	ND	ND	5.0 U	5.0 U	-	1.1 U	5.0 U	5.0 U	-	0.39 U	5.0 U
3-Nitroaniline	ug/L	-	-	44	0	ND	ND	2.0 U	2.0 U	-	0.56 U	2.0 U	2.0 U	-	0.29 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	0.15	44	0	ND	ND	5.0 U	5.0 U	-	2.8 U	5.0 U	5.0 U	-	2.5 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	-	44	0	ND	ND	2.0 U	2.0 U	-	0.49 U	2.0 U	2.0 U	-	0.23 U	2.0 U
4-Chloro-3-methylphenol	ug/L	-	140	44	0	ND	ND	2.0 U	2.0 U	-	0.29 U	2.0 U	2.0 U	-	0.22 U	2.0 U
4-Chloroaniline	ug/L	-	0.37	44	0	ND	ND	2.0 U	2.0 U	-	0.31 U	2.0 U	2.0 U	-	0.22 U	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	-	44	0	ND	ND	2.0 U	2.0 U	-	0.55 U	2.0 U	2.0 U	-	0.32 U	2.0 U
4-Methylphenol	ug/L	-	190	40	0	ND	ND	1.0 U	1.0 U	-	-	1.0 U	1.0 U	-	-	1.0 U
4-Nitroaniline	ug/L	-	3.8	44	0	ND	ND	2.0 U	2.0 U	-	0.91 U	2.0 U	2.0 U	-	0.23 U	2.0 U
4-Nitrophenol	ug/L	-	-	44	0	ND	ND	5.0 U	5.0 U	-	2.2 U	5.0 U	5.0 U	-	0.31 U	5.0 U
Acenaphthene	ug/L	-	53	44	0	ND	ND	0.20 U	0.20 U	-	0.17 U	0.20 U	0.20 U	-	0.047 U	0.20 U
Acenaphthylene	ug/L	-	-	44	0	ND	ND	0.20 U	0.20 U	-	0.12 U	0.20 U	0.20 U	-	0.051 U	0.20 U
Acetophenone	ug/L	-	190	44	0	ND	ND	1.0 U	1.0 U	-	0.36 U	1.0 U	1.0 U	-	0.36 U	1.0 U
Anthracene	ug/L	-	180	44	0	ND	ND	0.20 U	0.20 U	-	0.13 U	0.20 U	0.20 U	-	0.093 U	0.20 U
Atrazine	ug/L	3	0.3	44	0	ND	ND	1.0 U	1.0 U	-	0.94 U	1.0 U	1.0 U	-	0.36 U	1.0 U
Benzaldehyde	ug/L	-	19	44	0	ND	ND	1.0 U	1.0 U	-	0.75 U	1.0 U	1.0 U	-	0.41 U	1.0 U
Benzo(a)anthracene	ug/L	-	0.03	44	0	ND	ND	0.20 U	0.20 U	-	0.17 U	0.20 U	0.20 U	-	0.031 U	0.20 U
Benzo(a)pyrene	ug/L	0.2	0.025	44	0	ND	ND	0.20 U	0.20 U	-	0.17 U	0.20 U	0.20 U	-	0.054 U	0.20 U
Benzo(b)fluoranthene	ug/L	-	0.25	44	0	ND	ND	0.20 U	0.20 U	-	0.15 U	0.20 U	0.20 U	-	0.041 U	0.20 U
Benzo(g,h,i)perylene	ug/L	-	-	44	0	ND	ND	0.20 U	0.20 U	-	0.18 U	0.20 U	0.20 U	-	0.049 U	0.20 U
Benzo(k)fluoranthene	ug/L	-	2.5	44	0	ND	ND	0.20 U	0.20 U	-	0.14 U	0.20 U	0.20 U	-	0.047 U	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	0.083	44	0	ND	ND	1.0 U	1.0 U	-	0.49 U	1.0 U	1.0 U	-	0.14 U	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	5.9	44	0	ND	ND	1.0 U	1.0 U	-	0.45 U	1.0 U	1.0 U	-	0.34 U	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	0.014	44	0	ND	ND	1.0 U	1.0 U	-	0.40 U	1.0 U	1.0 U	-	0.11 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	6	5.6	46	5	0.95	3	2.0 U	2.0 U	-	2.2 U	1.1 J	2.0 U	-	1.8 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	-	16	44	2	0.95	1	1.0 U	1.0 U	-	0.66 U	1.0 U	1.0 U	-	0.27 U	1.0 U
Caprolactam	ug/L	-	990	43	1	0.35	0.35	5.0 U	5.0 UJ	-	0.92 U	5.0 U	5.0 U	-	0.35 J	5.0 U
Carbazole	ug/L	-	-	44	0	ND	ND	1.0 U	1.0 U	-	0.49 U	1.0 U	1.0 U	-	0.29 U	1.0 U
Chrysene	ug/L	-	25	44	0	ND	ND	0.20 U	0.20 U	-	0.18 U	0.20 U	0.20 U	-	0.053 U	0.20 U
Dibenz(a,h)anthracene	ug/L	-	0.025	44	0	ND	ND	0.20 U	0.20 U	-	0.15 U	0.20 U	0.20 U	-	0.047 U	0.20 U
Dibenzofuran	ug/L	-	0.79	44	0	ND	ND	1.0 U	1.0 U	-	0.56 U	1.0 U	1.0 U	-	0.021 U	1.0 U
Diethyl phthalate	ug/L	-	1500	44	0	ND	ND	1.0 U	1.0 U	-	3.8 U	1.0 U	1.0 U	-	0.63 U	1.0 U
Dimethyl phthalate	ug/L	-	-	44	0	ND	ND	1.0 U	1.0 U	-	0.51 U	1.0 U	1.0 U	-	0.31 U	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	90	44	0	ND	ND	1.0 U	1.0 U	-	1.8 U	1.0 U	1.0 U	-	1.8 U	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	-	20	44	0	ND	ND	1.0 U	1.0 U	-	0.81 U	1.0 U	1.0 U	-	0.24 U	1.0 U
Fluoranthene	ug/L	-	80	44	0	ND	ND	0.20 U	0.20 U	-	0.16 U	0.20 U	0.20 U	-	0.047 U	0.20 U
Fluorene	ug/L	-	29	44	0	ND	ND	0.20 U	0.20 U	-	0.17 U	0.20 U	0.20 U	-	0.043 U	0.20 U
Hexachlorobenzene	ug/L	1	0.0098	44	0	ND	ND	0.20 U	0.20 U	-	0.16 U	0.20 U	0.20 U	-	0.090 U	0.20 U
Hexachlorobutadiene	ug/L	-	0.14	44	0	ND	ND	1.0 U	1.0 U	-	0.54 U	1.0 U	1.0 U	-	0.28 U	1.0 U
Hexachlorocyclopentadiene	ug/L	50	0.041	39	0	ND	ND	10 U	10 U	-	1.7 U	10 U	10 U	-	0.25 U	10 U
Hexachloroethane	ug/L	-	0.33	44	0	ND	ND	1.0 U	1.0 U	-	0.39 U	1.0 U	1.0 U	-	0.20 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	0.25	44	0	ND	ND	0.20 U	0.20 U	-	0.13 U	0.20 U	0.20 U	-	0.046 U	0.20 U
Isophorone	ug/L	-	78	44	0	ND	ND	1.0 U	1.0 U	-	0.32 U	1.0 U	1.0 U	-	0.28 U	1.0 U
Naphthalene	ug/L	-	0.17	44	0	ND	ND	0.20 U	0.20 U	-	0.11 U	0.20 U	0.20 U	-	0.066 U	0.20 U
Nitrobenzene	ug/L	-	0.14	44	0	ND	ND	1.0 U	1.0 U	-	0.51 U	1.0 U	1.0 U	-	0.042 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	-	0.011	44	0	ND	ND	1.0 U	1.0 U	-	0.25 U	1.0 U	1.0 U	-	0.25 U	1.0 U
N-Nitrosodiphenylamine	ug/L	-	12	44	0	ND	ND	1.0 U	1.0 U	-	0.44 U	1.0 U	1.0 U	-	0.33 U	1.0 U
Pentachlorophenol	ug/L	1	0.041	44	0	ND	ND	5.0 U	5.0 U	-	3.1 U	5.0 U	5.0 U	-	0.28 U	5.0 U
Phenanthrene	ug/L	-	-	44	0	ND	ND	0.20 U	0.20 U	-	0.17 U	0.20 U	0.20 U	-	0.065 U	0.20 U
Phenol	ug/L	-	580	44	2	7.6	12	1.0 U	1.0 U	-	0.13 U	1.0 U	1.0 U	-	0.63 U	12

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:								**MW-209A**	**MW-209A**	**MW-209A**	**MW-209A**	**MW-210A**	**MW-210A**	**MW-210A**	**MW-210A**	**MW-210B**
Sample ID:								**GW-38443-072209-GL-004**	**GW-38443-010510-DR-007**	**GW-38443-051315-AS-016**	**GW-38443-101718-AS-220**	**GW-38443-122209-DR-004**	**GW-38443-041410-NZ-012**	**GW-38443-051515-AS-021**	**GW-38443-100317-DA-002**	**GW-38443-122309-DR-006**
Sample Date:								**7/22/2009**	**1/5/2010**	**5/13/2015**	**10/17/2018**	**12/22/2009**	**4/14/2010**	**5/15/2015**	**10/3/2017**	**12/23/2009**
Sample Depth:								**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**80-85 ft BGS**	**80-85 ft BGS**	**80-85 ft BGS**	**80-85 ft BGS**	**97-102 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**									
Pyrene	ug/L	-	12	44	0	ND	ND	0.20 U	0.20 U	-	0.17 U	0.20 U	0.20 U	-	0.044 U	0.20 U
Metals																
Aluminum	ug/L	-	2000	72	60	34	120000	200 U	200 U	-	51	416	367 J	-	430	1940
Aluminum (dissolved)	ug/L	-	2000	66	12	34	10000	200 U	-	-	34 U	200 U	-	-	34 U	200 U
Antimony	ug/L	6	0.78	72	23	0.22	6	2.0 U	2.0 U	-	0.57 U	2.0 U	2.0 U	-	0.57 U	0.22 J
Antimony (dissolved)	ug/L	6	0.78	66	10	0.63	1.5	2.0 U	-	-	0.57 U	2.0 U	-	-	0.57 U	2.0 U
Arsenic	ug/L	10	0.052	207	204	0.55	1030	3.1 J[b]	3.3 J[b]	-	3.7 J[b]	1.5 J[b]	2.7 J[b]	-	3.2 J[b]	6.5[b]
Arsenic (dissolved)	ug/L	10	0.052	98	90	0.55	38	3.0 J[b]	-	-	4.3 J[b]	1.5 J[b]	-	-	2.9 J[b]	5.1[b]
Barium	ug/L	2000	380	72	70	84	2200	321	348	-	360	101 J	106 J	-	94	722[b]
Barium (dissolved)	ug/L	2000	380	66	64	73	737	313	-	-	370	105 J	-	-	93	737[b]
Beryllium	ug/L	4	2.5	72	12	0.36	5.4	5.0 U	5.0 U	-	0.31 U	5.0 U	5.0 U	-	0.31 U	5.0 U
Beryllium (dissolved)	ug/L	4	2.5	66	6	0.31	1.6	5.0 U	-	-	0.31 U	5.0 U	-	-	0.31 U	5.0 U
Cadmium	ug/L	5	0.92	72	14	0.22	4.1	1.0 U	1.0 U	-	0.21 U	1.0 U	1.0 U	-	0.21 U	1.0 U
Cadmium (dissolved)	ug/L	5	0.92	66	4	0.25	0.41	1.0 U	-	-	0.21 U	1.0 U	-	-	0.21 U	1.0 U
Calcium	ug/L	-	-	72	70	59000	1800000	69000	76500	-	74000	94100	109000	-	100000	70300
Calcium (dissolved)	ug/L	-	-	66	64	49000	230000	67000	-	-	76000	99900	-	-	100000	62800
Chromium	ug/L	100	-	72	38	0.99	300	10.0 U	10.0 U	-	0.98 U	10.0 U	10.0 U	-	0.98 U	10.0 U
Chromium (dissolved)	ug/L	100	-	66	7	1.1	25	10.0 U	-	-	0.98 U	10.0 U	-	-	0.98 U	10.0 U
Cobalt	ug/L	-	0.6	72	58	0.2	100	50.0 U	50.0 U	-	0.61 J[b]	50.0 U	50.0 U	-	0.36 J	50.0 U
Cobalt (dissolved)	ug/L	-	0.6	66	46	0.2	8.7	50.0 U	-	-	0.61 J[b]	50.0 U	-	-	0.19 U	50.0 U
Copper	ug/L	1300	80	72	31	1.7	370	25.0 U	25.0 U	-	1.7 U	25.0 U	25.0 U	-	1.7 U	4.8 J
Copper (dissolved)	ug/L	1300	80	66	12	1.7	31	25.0 U	-	-	1.7 U	25.0 U	-	-	1.7 U	25.0 U
Iron	ug/L	-	1400	72	72	480	300000	1350	1400	-	2000[b]	3180[b]	3170[b]	-	2700[b]	6440[b]
Iron (dissolved)	ug/L	-	1400	66	66	320	25000	1250	-	-	2000[b]	2810[b]	-	-	2300[b]	3370[b]
Lead	ug/L	15	15	207	172	0.21	320	1.0 U	0.24 J	-	0.45 U	0.46 J	0.36 J	-	0.52 J	1.8
Lead (dissolved)	ug/L	15	15	98	18	0.18	17	1.0 U	-	-	0.45 U	1.0 U	-	-	0.45 U	1.0 U
Magnesium	ug/L	-	-	72	68	32000	440000	56900	61600	-	48000	38800	43300	-	36000	41000
Magnesium (dissolved)	ug/L	-	-	66	62	31000	91000	55400	-	-	48000	41400	-	-	38000	39600
Manganese	ug/L	-	43	72	72	37	7500	176[b]	208[b]	-	280[b]	190[b]	214[b]	-	190[b]	114[b]
Manganese (dissolved)	ug/L	-	43	66	66	35	1200	171[b]	-	-	290[b]	188[b]	-	-	170[b]	54.9[b]
Manganese 2+	ug/L	-	-	8	6	38	566	566	359	-	-	99 J	-	-	-	38 J
Mercury	ug/L	2	0.063	72	5	0.13	0.24	0.20 U	0.20 U	-	0.13 U	0.20 U	0.20 U	-	0.13 U	0.20 U
Mercury (dissolved)	ug/L	2	0.063	66	2	0.19	0.24	0.20 U	-	-	0.13 U	0.20 U	-	-	0.13 U	0.20 U
Nickel	ug/L	-	39	72	42	1.6	310	40.0 U	40.0 U	-	1.9 J	40.0 U	40.0 U	-	1.5 U	40.0 U
Nickel (dissolved)	ug/L	-	39	66	15	1.5	26	40.0 U	-	-	1.8 J	40.0 U	-	-	1.5 U	40.0 U
Potassium	ug/L	-	-	72	68	3500	33000	21100	21200	-	22000	5890	6390	-	3900	8390
Potassium (dissolved)	ug/L	-	-	66	62	3600	23000	20600	-	-	22000	6210	-	-	4800	8000
Selenium	ug/L	50	10	72	8	1	14	5.0 U	5.0 U	-	0.89 U	5.0 U	5.0 U	-	0.89 U	5.0 U
Selenium (dissolved)	ug/L	50	10	66	4	0.99	1.3	5.0 U	-	-	0.89 U	5.0 U	-	-	0.89 U	5.0 U
Silver	ug/L	-	9.4	72	7	0.074	0.88	1.0 U	1.0 U	-	0.88 J	1.0 U	1.0 U	-	0.81 J	1.0 U
Silver (dissolved)	ug/L	-	9.4	66	1	0.072	0.072	1.0 U	-	-	0.053 U	1.0 U	-	-	0.053 U	1.0 U
Sodium	ug/L	-	-	72	68	32000	110000	46800	37400	-	71000	51300	56600	-	48000	48300
Sodium (dissolved)	ug/L	-	-	66	62	32000	110000	45800	-	-	72000	54200	-	-	41000	50500
Thallium	ug/L	2	0.02	72	10	0.2	3	1.0 U	1.0 U	-	0.20 U	1.0 U	1.0 U	-	0.20 U	1.0 U
Thallium (dissolved)	ug/L	2	0.02	66	4	0.2	0.63	1.0 U	-	-	0.20 U	1.0 U	-	-	0.20 U	1.0 U
Vanadium	ug/L	-	8.6	72	24	0.98	260	50.0 U	50.0 U	-	0.82 U	50.0 U	50.0 U	-	0.82 U	3.7 J
Vanadium (dissolved)	ug/L	-	8.6	66	5	0.9	21	50.0 U	-	-	0.82 U	50.0 U	-	-	0.82 U	50.0 U
Zinc	ug/L	-	600	72	57	86	2700	20.0 U	20.0 U	-	15 U	20.0 U	20.0 U	-	15 U	20.0 U
Zinc (dissolved)	ug/L	-	600	66	57	72	2600	20.0 U	-	-	15 U	20.0 U	-	-	15 U	20.0 U
PCBs																
Aroclor-1016 (PCB-1016)	ug/L	-	0.14	15	0	ND	ND	0.20 U	0.20 U	-	0.055 U	0.20 U	0.20 U	-	0.050 U	0.20 U
Aroclor-1221 (PCB-1221)	ug/L	-	0.0047	15	0	ND	ND	0.20 U	0.20 U	-	0.056 U	0.20 U	0.20 U	-	0.090 U	0.20 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:								MW-209A	MW-209A	MW-209A	MW-209A	MW-210A	MW-210A	MW-210A	MW-210A	MW-210B
Sample ID:								GW-38443-072209-GL-004	GW-38443-010510-DR-007	GW-38443-051315-AS-016	GW-38443-101718-AS-220	GW-38443-122209-DR-004	GW-38443-041410-NZ-012	GW-38443-051515-AS-021	GW-38443-100317-DA-002	GW-38443-122309-DR-006
Sample Date:								7/22/2009	1/5/2010	5/13/2015	10/17/2018	12/22/2009	4/14/2010	5/15/2015	10/3/2017	12/23/2009
Sample Depth:								52-57 ft BGS	52-57 ft BGS	52-57 ft BGS	52-57 ft BGS	80-85 ft BGS	80-85 ft BGS	80-85 ft BGS	80-85 ft BGS	97-102 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**									
Aroclor-1232 (PCB-1232)	ug/L	-	0.0047	15	0	ND	ND	0.20 U	0.20 U	-	0.073 U	0.20 U	0.20 U	-	0.070 U	0.20 U
Aroclor-1242 (PCB-1242)	ug/L	-	0.0078	15	0	ND	ND	0.20 U	0.20 U	-	0.075 U	0.20 U	0.20 U	-	0.060 U	0.20 U
Aroclor-1248 (PCB-1248)	ug/L	-	0.0078	15	0	ND	ND	0.20 U	0.20 U	-	0.050 U	0.20 U	0.20 U	-	0.050 U	0.20 U
Aroclor-1254 (PCB-1254)	ug/L	-	0.0078	15	2	0.046	1.3	0.20 U	0.046 J[b]	-	0.040 U	0.20 U	0.20 U	-	0.030 U	0.20 U
Aroclor-1260 (PCB-1260)	ug/L	-	0.0078	15	0	ND	ND	0.20 U	0.20 U	-	0.046 U	0.20 U	0.20 U	-	0.040 U	0.20 U
Pesticides																
4,4'-DDD	ug/L	-	0.0063	15	0	ND	ND	0.050 UJ	0.050 U	-	0.0052 U	0.050 U	0.050 UJ	-	0.018 U	0.050 U
4,4'-DDE	ug/L	-	0.046	15	0	ND	ND	0.050 U	0.050 U	-	0.0043 U	0.050 U	0.050 U	-	0.012 U	0.050 U
4,4'-DDT	ug/L	-	0.23	15	0	ND	ND	0.050 U	0.050 U	-	0.0048 U	0.050 U	0.050 UJ	-	0.017 U	0.050 U
Aldrin	ug/L	-	0.00092	15	0	ND	ND	0.050 U	0.050 U	-	0.0024 U	0.050 U	0.050 U	-	0.013 U	0.050 U
alpha-BHC	ug/L	-	0.0072	15	2	0.0087	0.04	0.050 U	0.040 J[b]	-	0.0020 U	0.050 U	0.050 U	-	0.014 U	0.050 U
alpha-Chlordane	ug/L	-	-	15	0	ND	ND	0.050 U	0.050 U	-	0.0032 U	0.050 U	0.050 U	-	0.012 U	0.050 U
beta-BHC	ug/L	-	0.025	15	1	0.0099	0.0099	0.050 U	0.050 U	-	0.0046 U	0.050 U	0.050 U	-	0.018 U	0.050 U
delta-BHC	ug/L	-	-	15	0	ND	ND	0.050 U	0.050 U	-	0.0043 U	0.050 U	0.050 U	-	0.029 U	0.050 U
Dieldrin	ug/L	-	0.0018	15	0	ND	ND	0.050 U	0.050 U	-	0.0023 U	0.050 U	0.050 U	-	0.013 U	0.050 U
Endosulfan I	ug/L	-	-	15	0	ND	ND	0.050 U	0.050 U	-	0.0037 U	0.050 U	0.050 U	-	0.016 U	0.050 U
Endosulfan II	ug/L	-	-	15	0	ND	ND	0.050 U	0.050 U	-	0.0023 U	0.050 U	0.050 U	-	0.015 U	0.050 U
Endosulfan sulfate	ug/L	-	11	15	0	ND	ND	0.050 U	0.050 U	-	0.0037 U	0.050 U	0.050 U	-	0.015 U	0.050 U
Endrin	ug/L	2	0.23	15	0	ND	ND	0.050 U	0.050 U	-	0.0025 U	0.050 U	0.050 U	-	0.013 U	0.050 U
Endrin aldehyde	ug/L	-	-	15	0	ND	ND	0.050 U	0.050 U	-	0.0046 U	0.050 U	0.050 U	-	0.018 U	0.050 U
Endrin ketone	ug/L	-	-	15	0	ND	ND	0.050 U	0.050 U	-	0.0040 U	0.050 U	0.050 U	-	0.016 U	0.050 U
gamma-BHC (lindane)	ug/L	0.2	0.042	15	0	ND	ND	0.050 U	0.050 U	-	0.0025 U	0.050 U	0.050 U	-	0.013 U	0.050 U
gamma-Chlordane	ug/L	-	-	15	0	ND	ND	0.050 U	0.050 U	-	0.0050 U	0.050 U	0.050 U	-	0.013 U	0.050 U
Heptachlor	ug/L	0.4	0.0014	15	0	ND	ND	0.050 U	0.050 U	-	0.0033 U	0.050 U	0.050 U	-	0.014 U	0.050 U
Heptachlor epoxide	ug/L	0.2	0.0014	15	0	ND	ND	0.050 U	0.050 U	-	0.0026 U	0.050 U	0.050 U	-	0.015 U	0.050 U
Methoxychlor	ug/L	40	3.7	15	0	ND	ND	0.10 U	0.10 U	-	0.0047 U	0.10 UJ	0.10 UJ	-	0.013 U	0.10 UJ
Toxaphene	ug/L	3	0.071	15	0	ND	ND	2.0 U	2.0 U	-	0.058 U	2.0 U	2.0 U	-	0.19 U	2.0 U
Gases																
Ethane	ug/L	-	-	11	11	0.37	13	6.8	3.3 J	-	-	0.91 J	0.42 J	-	-	11 J
Ethene	ug/L	-	-	11	5	0.26	4.7	0.26 J	0.50 U	-	-	0.92	0.52 J	-	-	5.0 UJ
Methane	ug/L	-	-	11	11	19	23000	430	78	-	-	67	34	-	-	12000
Herbicides																
2,4,5-T	ug/L	-	16	3	0	ND	ND	-	-	-	0.57 U	-	-	-	0.24 U	-
2,4,5-TP (Silvex)	ug/L	50	11	9	0	ND	ND	1.0 U	-	-	0.43 U	1.0 U	-	-	0.20 U	1.0 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	70	17	9	0	ND	ND	4.0 U	-	-	2.2 U	4.0 U	-	-	1.1 U	4.0 U
General Chemistry																
Alkalinity, total (as CaCO3)	ug/L	-	-	11	11	290000	414000	394000	374000	-	-	346000	360000	-	-	316000
Chloride	ug/L	-	-	72	70	42000	190000	66800	78400	-	94000	85900	80400	-	78000	110000
Cyanide (total)	ug/L	200	0.15	7	0	ND	ND	10 U	-	-	6 U	-	-	-	5.0 UJ	-
Dissolved organic carbon (DOC)	ug/L	-	-	11	10	1000	5000	5000	4000	-	-	1000	2000	-	-	2000
Hardness	ug/L	-	-	8	8	344000	451000	407000	445000	-	-	395000	-	-	-	344000
Nitrate (as N)	ug/L	10000	3200	72	22	14	420	100 U	100 U	-	14 U	100 U	100 U	-	14 U	100 U
Nitrite (as N)	ug/L	1000	200	72	0	ND	ND	100 U	100 U	-	14 U	100 U	100 U	-	14 U	100 U
Sulfate	ug/L	-	-	72	69	200	104000	58800	65000	-	14000	102000	104000	-	69000	1000
Sulfide (acid soluble)	ug/L	-	-	10	0	ND	ND	3000 U	3000 U	-	-	3000 U	3000 U	-	-	3000 U

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-210B**	**MW-210B**	**MW-210B**	**MW-215B**	**MW-215B**	**MW-215B**	**MW-215B**	**MW-216**	**MW-216**	**MW-216**	**VAS-1**
Sample ID:		**GW-38443-041410-NZ-015**	**GW-38443-051515-AS-022**	**GW-38443-100317-SCT-001**	**GW-38443-072409-GL-013**	**GW-38443-072409-GL-014**	**GW-38443-010510-DR-008**	**GW-38443-051315-AS-015**	**GW-38443-011210-JMC-027**	**GW-38443-041410-GL-009**	**GW-38443-051415-AS-020**	**GW-38443-110608-BW-106**
Sample Date:		**4/14/2010**	**5/15/2015**	**10/3/2017**	**7/24/2009**	**7/24/2009**	**1/5/2010**	**5/13/2015**	**1/12/2010**	**4/14/2010**	**5/14/2015**	**11/6/2008**
Sample Depth:		**97-102 ft BGS**	**97-102 ft BGS**	**97-102 ft BGS**	**47-52 ft BGS**	**47-52 ft BGS Duplicate**	**47-52 ft BGS**	**47-52 ft BGS**	**57-62 ft BGS**	**57-62 ft BGS**	**57-62 ft BGS**	**62-67 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	29 U	14 U	0.23 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	29 UJ	14 U	0.32 U	1.0 UJ	1.0 UJ	1.0 UJ	1.7 U	20 U	20 UJ	17 U	1.0 UJ
1,1,2-Trichloroethane	ug/L	29 U	14 U	0.34 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,1-Dichloroethane	ug/L	29 UJ	14 U	0.25 U	1.0	1.0	1.2	1.2 J	20 U	20 UJ	17 U	0.58 J
1,1-Dichloroethene	ug/L	29 U	14 U	0.27 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	29 U	14 U	0.27 U	1.0 UJ	1.0 UJ	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	57 U	29 U	0.0084 U	2.0 U	2.0 U	2.0 UJ	3.3 U	40 U	40 U	33 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	29 U	14 U	0.0071 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,2-Dichlorobenzene	ug/L	29 U	14 U	0.26 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,2-Dichloroethane	ug/L	29 UJ	14 U	0.30 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 UJ	17 U	1.0 U
1,2-Dichloropropane	ug/L	29 U	14 U	0.30 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,3-Dichlorobenzene	ug/L	29 U	14 U	0.32 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,4-Dichlorobenzene	ug/L	29 U	14 U	0.23 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	290 UJ	140 U	1.0 U	10 U	10 U	10 U	17 U	200 U	200 UJ	170 U	10 U
2-Hexanone	ug/L	290 UJ	140 U	1.2 U	10 U	10 U	10 U	17 U	200 U	200 UJ	170 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	290 UJ	140 U	0.71 U	10 U	10 U	10 U	17 U	200 U	200 UJ	170 U	10 U
Acetone	ug/L	290 UJ	140 U	1.8 U	10 U	10 U	10 U	17 UJ	200 U	200 UJ	170 UJ	10 U
Benzene	ug/L	**880[ab]**	**390[ab]**	**4.0[b]**	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Bromodichloromethane	ug/L	29 U	14 U	0.30 U	1.0 U	1.0 U	1.0 UJ	1.7 U	20 U	20 U	17 U	1.0 U
Bromoform	ug/L	29 U	14 U	0.43 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	29 U	14 U	0.42 UJ	1.0 U	1.0 U	1.0 U	1.7 U	R	20 U	17 U	1.0 U
Carbon disulfide	ug/L	29 U	14 U	0.34 U	1.0 UJ	1.0 UJ	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Carbon tetrachloride	ug/L	29 U	14 U	0.35 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Chlorobenzene	ug/L	29 U	14 U	0.32 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Chloroethane	ug/L	29 U	14 U	0.41 UJ	1.0 U	1.0 U	1.0 UJ	1.7 U	R	20 U	17 U	1.0 U
Chloroform (Trichloromethane)	ug/L	29 UJ	14 U	0.31 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	29 U	14 U	0.43 U	1.0 U	1.0 U	1.0 U	1.7 U	20 UJ	20 U	17 U	1.0 U
cis-1,2-Dichloroethene	ug/L	29 U	14 U	0.30 U	**18[b]**	**18[b]**	**23[b]**	**35[b]**	**650[ab]**	**650[ab]**	**480[ab]**	3.5
cis-1,3-Dichloropropene	ug/L	29 U	14 U	0.26 U	1.0 UJ	1.0 UJ	1.0 UJ	1.7 U	20 U	20 U	17 U	1.0 UJ
Cyclohexane	ug/L	29 U	14 U	0.44 U	1.0 UJ	1.0 UJ	1.0 U	1.7 U	20 U	20 U	17 U	0.19 J
Dibromochloromethane	ug/L	29 U	14 U	0.25 U	1.0 U	1.0 U	1.0 UJ	1.7 U	20 U	20 U	17 U	1.0 UJ
Dichlorodifluoromethane (CFC-12)	ug/L	29 UJ	14 U	0.50 U	1.0 UJ	1.0 UJ	1.0 UJ	1.7 U	20 U	20 UJ	17 U	1.0 U
Ethylbenzene	ug/L	29 U	14 U	0.26 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Isopropyl benzene	ug/L	29 U	14 U	0.21 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
m&p-Xylenes	ug/L	-	-	0.24 U	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	290 UJ	140 U	1.4 U	10 U	10 U	10 U	17 U	200 U	200 UJ	170 U	10 U
Methyl cyclohexane	ug/L	29 U	14 U	0.45 U	1.0 UJ	1.0 UJ	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	140 U	14 U	0.27 U	5.0 U	5.0 U	5.0 U	1.7 U	100 U	100 U	17 U	5.0 U
Methylene chloride	ug/L	29 U	14 U	0.53 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
o-Xylene	ug/L	-	-	0.28 U	-	-	-	-	-	-	-	-
Styrene	ug/L	29 U	14 U	0.23 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Tetrachloroethene	ug/L	29 U	14 U	0.30 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 UJ	17 U	1.0 U
Toluene	ug/L	29 U	14 U	0.23 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	0.36 J
trans-1,2-Dichloroethene	ug/L	29 U	14 U	0.29 U	0.22 J	0.23 J	0.21 J	1.7 U	4.4 J	5.9 J	17 U	0.42 J
trans-1,3-Dichloropropene	ug/L	29 UJ	14 U	0.31 U	1.0 UJ	1.0 UJ	1.0 UJ	1.7 U	20 UJ	20 UJ	17 U	1.0 UJ
Trichloroethene	ug/L	29 U	14 U	0.33 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	29 U	14 U	0.50 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	29 U	14 U	0.41 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 UJ
Vinyl chloride	ug/L	29 U	14 U	0.45 U	**6.1[ab]**	**6.2[ab]**	**5.9[ab]**	**5.4[ab]**	**92 J[ab]**	**130[ab]**	**350[ab]**	**0.28 J[b]**
Xylenes (total)	ug/L	57 U	29 U	0.24 U	2.0 U	2.0 U	2.0 U	3.3 U	40 U	40 U	33 U	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	-	0.38 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
2,4,5-Trichlorophenol	ug/L	5.0 U	-	0.29 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
2,4,6-Trichlorophenol	ug/L	5.0 U	-	0.23 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
2,4-Dichlorophenol	ug/L	2.0 U	-	0.18 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
2,4-Dimethylphenol	ug/L	2.0 U	-	0.24 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-210B	MW-210B	MW-210B	MW-215B	MW-215B	MW-215B	MW-215B	MW-216	MW-216	MW-216	VAS-1
Sample ID:		GW-38443-041410-NZ-015	GW-38443-051515-AS-022	GW-38443-100317-SCT-001	GW-38443-072409-GL-013	GW-38443-072409-GL-014	GW-38443-010510-DR-008	GW-38443-051315-AS-015	GW-38443-011210-JMC-027	GW-38443-041410-GL-009	GW-38443-051415-AS-020	GW-38443-110608-BW-106
Sample Date:		4/14/2010	5/15/2015	10/3/2017	7/24/2009	7/24/2009	1/5/2010	5/13/2015	1/12/2010	4/14/2010	5/14/2015	11/6/2008
Sample Depth:		97-102 ft BGS	97-102 ft BGS	97-102 ft BGS	47-52 ft BGS	47-52 ft BGS Duplicate	47-52 ft BGS	47-52 ft BGS	57-62 ft BGS	57-62 ft BGS	57-62 ft BGS	62-67 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	5.0 U	-	0.31 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
2,4-Dinitrotoluene	ug/L	5.0 U	-	0.24 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
2,6-Dinitrotoluene	ug/L	5.0 U	-	0.77 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
2-Chloronaphthalene	ug/L	1.0 U	-	0.096 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 UJ
2-Chlorophenol	ug/L	1.0 U	-	0.28 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
2-Methylnaphthalene	ug/L	0.20 U	-	0.087 U	0.26	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
2-Methylphenol	ug/L	1.0 U	-	0.16 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
2-Nitroaniline	ug/L	2.0 U	-	0.20 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
2-Nitrophenol	ug/L	2.0 U	-	0.27 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
3&4-Methylphenol	ug/L	-	-	0.77 U	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	-	0.36 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
3-Nitroaniline	ug/L	2.0 U	-	0.27 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	-	2.3 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
4-Bromophenyl phenyl ether	ug/L	2.0 U	-	0.21 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
4-Chloro-3-methylphenol	ug/L	2.0 U	-	0.20 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
4-Chloroaniline	ug/L	2.0 U	-	0.20 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
4-Chlorophenyl phenyl ether	ug/L	2.0 U	-	0.29 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
4-Methylphenol	ug/L	1.0 U	-	-	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
4-Nitroaniline	ug/L	2.0 U	-	0.21 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
4-Nitrophenol	ug/L	5.0 U	-	0.28 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
Acenaphthene	ug/L	0.20 U	-	0.043 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Acenaphthylene	ug/L	0.20 U	-	0.046 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Acetophenone	ug/L	1.0 U	-	0.33 U	1.0 U	1.0 U	1.0 U	-	1.0 UJ	1.0 U	-	1.0 U
Anthracene	ug/L	0.20 U	-	0.085 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Atrazine	ug/L	1.0 U	-	0.33 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Benzaldehyde	ug/L	1.0 U	-	0.37 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Benzo(a)anthracene	ug/L	0.20 U	-	0.028 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Benzo(a)pyrene	ug/L	0.20 U	-	0.049 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Benzo(b)fluoranthene	ug/L	0.20 U	-	0.038 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Benzo(g,h,i)perylene	ug/L	0.20 U	-	0.045 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Benzo(k)fluoranthene	ug/L	0.20 U	-	0.043 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	-	0.13 U	1.0 U	1.0 U	1.0 U	-	1.0 UJ	1.0 U	-	1.0 UJ
bis(2-Chloroethoxy)methane	ug/L	1.0 U	-	0.31 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
bis(2-Chloroethyl)ether	ug/L	1.0 U	-	0.096 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	-	1.6 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	2.0 U
Butyl benzylphthalate (BBP)	ug/L	1.0 U	-	0.25 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Caprolactam	ug/L	5.0 U	-	0.19 U	5.0 U	5.0 U	5.0 UJ	-	R	5.0 U	-	5.0 UJ
Carbazole	ug/L	1.0 U	-	0.27 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Chrysene	ug/L	0.20 U	-	0.048 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Dibenz(a,h)anthracene	ug/L	0.20 U	-	0.043 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Dibenzofuran	ug/L	1.0 U	-	0.019 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Diethyl phthalate	ug/L	1.0 U	-	0.58 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Dimethyl phthalate	ug/L	1.0 U	-	0.28 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Di-n-butylphthalate (DBP)	ug/L	1.0 U	-	1.6 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	-	0.22 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Fluoranthene	ug/L	0.20 U	-	0.043 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Fluorene	ug/L	0.20 U	-	0.039 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Hexachlorobenzene	ug/L	0.20 U	-	0.082 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Hexachlorobutadiene	ug/L	1.0 U	-	0.26 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Hexachlorocyclopentadiene	ug/L	10 U	-	0.23 U	10 U	10 U	10 U	-	10 U	10 U	-	10 U
Hexachloroethane	ug/L	1.0 U	-	0.18 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	-	0.042 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Isophorone	ug/L	1.0 U	-	0.26 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Naphthalene	ug/L	0.20 U	-	0.060 U	0.20 U	0.20 U	0.20 U	-	0.27 U	0.20 U	-	0.20 U
Nitrobenzene	ug/L	1.0 U	-	0.038 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	1.0 U	-	0.23 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
N-Nitrosodiphenylamine	ug/L	1.0 U	-	0.30 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U
Pentachlorophenol	ug/L	5.0 U	-	0.26 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	5.0 U
Phenanthrene	ug/L	0.20 U	-	0.060 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Phenol	ug/L	7.6	-	0.58 U	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	1.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**MW-210B**	**MW-210B**	**MW-210B**	**MW-215B**	**MW-215B**	**MW-215B**	**MW-215B**	**MW-216**	**MW-216**	**MW-216**	**VAS-1**
Sample ID:		**GW-38443-041410-NZ-015**	**GW-38443-051515-AS-022**	**GW-38443-100317-SCT-001**	**GW-38443-072409-GL-013**	**GW-38443-072409-GL-014**	**GW-38443-010510-DR-008**	**GW-38443-051315-AS-015**	**GW-38443-011210-JMC-027**	**GW-38443-041410-GL-009**	**GW-38443-051415-AS-020**	**GW-38443-110608-BW-106**
Sample Date:		**4/14/2010**	**5/15/2015**	**10/3/2017**	**7/24/2009**	**7/24/2009**	**1/5/2010**	**5/13/2015**	**1/12/2010**	**4/14/2010**	**5/14/2015**	**11/6/2008**
Sample Depth:		**97-102 ft BGS**	**97-102 ft BGS**	**97-102 ft BGS**	**47-52 ft BGS**	**47-52 ft BGS Duplicate**	**47-52 ft BGS**	**47-52 ft BGS**	**57-62 ft BGS**	**57-62 ft BGS**	**57-62 ft BGS**	**62-67 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	0.20 U	-	0.040 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	0.20 U
Metals												
Aluminum	ug/L	5980 J[b]	-	88	200 U	200 U	200 U	-	166 J	195 J	-	-
Aluminum (dissolved)	ug/L	-	-	34 J	200 U	200 U	-	-	-	-	-	-
Antimony	ug/L	0.24 J	-	0.57 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	-
Antimony (dissolved)	ug/L	-	-	0.57 U	2.0 U	2.0 U	-	-	-	-	-	-
Arsenic	ug/L	11.3[ab]	-	8.1[b]	4.6 J[b]	4.5 J[b]	4.5 J[b]	-	5.9[b]	5.9[b]	-	34.8[ab]
Arsenic (dissolved)	ug/L	-	-	8.2[b]	4.7 J[b]	4.9 J[b]	-	-	-	-	-	-
Barium	ug/L	767[b]	-	630[b]	161 J	165 J	162 J	-	121 J	280	-	-
Barium (dissolved)	ug/L	-	-	630[b]	169 J	166 J	-	-	-	-	-	-
Beryllium	ug/L	5.0 U	-	0.31 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	-
Beryllium (dissolved)	ug/L	-	-	1.6	5.0 U	5.0 U	-	-	-	-	-	-
Cadmium	ug/L	1.0 U	-	0.50 J	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-
Cadmium (dissolved)	ug/L	-	-	0.37 J	1.0 U	1.0 U	-	-	-	-	-	-
Calcium	ug/L	83900	-	83000	109000	112000	112000	-	98200	92900	-	-
Calcium (dissolved)	ug/L	-	-	83000	114000	112000	-	-	-	-	-	-
Chromium	ug/L	12.8	-	0.98 U	10.0 U	10.0 U	10.0 U	-	10.0 U	10.0 U	-	-
Chromium (dissolved)	ug/L	-	-	0.98 U	10.0 U	10.0 U	-	-	-	-	-	-
Cobalt	ug/L	5.2 J[b]	-	0.59 J	50.0 U	50.0 U	50.0 U	-	50.0 U	50.0 U	-	-
Cobalt (dissolved)	ug/L	-	-	0.52 J	50.0 U	50.0 U	-	-	-	-	-	-
Copper	ug/L	15.3 J	-	1.7 U	25.0 U	25.0 U	25.0 U	-	25.0 U	25.0 U	-	-
Copper (dissolved)	ug/L	-	-	1.7 U	25.0 U	25.0 U	-	-	-	-	-	-
Iron	ug/L	12600[b]	-	4500[b]	2150[b]	2220[b]	2200[b]	-	3050[b]	3650[b]	-	-
Iron (dissolved)	ug/L	-	-	4500[b]	2240[b]	2200[b]	-	-	-	-	-	-
Lead	ug/L	5.0	-	0.61 J	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	25.1[ab]
Lead (dissolved)	ug/L	-	-	0.45 U	1.0 U	1.0 U	-	-	-	-	-	-
Magnesium	ug/L	40500	-	40000	41000	41900	41300	-	43200	42100	-	-
Magnesium (dissolved)	ug/L	-	-	41000	43000	42000	-	-	-	-	-	-
Manganese	ug/L	189[b]	-	37	364[b]	372[b]	368[b]	-	212[b]	222[b]	-	-
Manganese (dissolved)	ug/L	-	-	35	381[b]	374[b]	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	451	250 U	125 U	-	296 J	-	-	-
Mercury	ug/L	0.20 U	-	0.13 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-
Mercury (dissolved)	ug/L	-	-	0.13 U	0.20 U	0.20 U	-	-	-	-	-	-
Nickel	ug/L	11.5 J	-	1.5 U	40.0 U	40.0 U	40.0 U	-	40.0 U	40.0 U	-	-
Nickel (dissolved)	ug/L	-	-	1.5 U	40.0 U	40.0 U	-	-	-	-	-	-
Potassium	ug/L	9290	-	5400	9540	9730	10100	-	10900	11100	-	-
Potassium (dissolved)	ug/L	-	-	5200	9970	9870	-	-	-	-	-	-
Selenium	ug/L	5.0 U	-	0.89 U	5.0 U	5.0 U	5.0 U	-	5.0 U	5.0 U	-	-
Selenium (dissolved)	ug/L	-	-	0.89 U	5.0 U	5.0 U	-	-	-	-	-	-
Silver	ug/L	1.0 U	-	0.080 J	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-
Silver (dissolved)	ug/L	-	-	0.053 U	1.0 U	1.0 U	-	-	-	-	-	-
Sodium	ug/L	49800	-	36000	81200	82800	87200	-	40100	40500	-	-
Sodium (dissolved)	ug/L	-	-	37000	85000	83900	-	-	-	-	-	-
Thallium	ug/L	1.0 U	-	0.57 J[b]	1.0 U	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-
Thallium (dissolved)	ug/L	-	-	0.63 J[b]	1.0 U	1.0 U	-	-	-	-	-	-
Vanadium	ug/L	13.8 J[b]	-	0.82 U	50.0 U	50.0 U	50.0 U	-	50.0 U	50.0 U	-	-
Vanadium (dissolved)	ug/L	-	-	0.82 U	50.0 U	50.0 U	-	-	-	-	-	-
Zinc	ug/L	49.1 U	-	15 U	20.0 U	20.0 U	20.0 U	-	20.0 U	20.0 U	-	-
Zinc (dissolved)	ug/L	-	-	15 U	20.0 U	20.0 U	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	0.20 U	-	0.050 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-
Aroclor-1221 (PCB-1221)	ug/L	0.20 U	-	0.089 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-210B	MW-210B	MW-210B	MW-215B	MW-215B	MW-215B	MW-215B	MW-216	MW-216	MW-216	VAS-1
Sample ID:		GW-38443-041410-NZ-015	GW-38443-051515-AS-022	GW-38443-100317-SCT-001	GW-38443-072409-GL-013	GW-38443-072409-GL-014	GW-38443-010510-DR-008	GW-38443-051315-AS-015	GW-38443-011210-JMC-027	GW-38443-041410-GL-009	GW-38443-051415-AS-020	GW-38443-110608-BW-106
Sample Date:		4/14/2010	5/15/2015	10/3/2017	7/24/2009	7/24/2009	1/5/2010	5/13/2015	1/12/2010	4/14/2010	5/14/2015	11/6/2008
Sample Depth:		97-102 ft BGS	97-102 ft BGS	97-102 ft BGS	47-52 ft BGS	47-52 ft BGS Duplicate	47-52 ft BGS	47-52 ft BGS	57-62 ft BGS	57-62 ft BGS	57-62 ft BGS	62-67 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	0.20 U	-	0.069 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-
Aroclor-1242 (PCB-1242)	ug/L	0.20 U	-	0.059 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-
Aroclor-1248 (PCB-1248)	ug/L	0.20 U	-	0.050 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-
Aroclor-1254 (PCB-1254)	ug/L	0.20 U	-	0.030 U	0.20 U	0.20 U	1.3[b]	-	0.20 U	0.20 U	-	-
Aroclor-1260 (PCB-1260)	ug/L	0.20 U	-	0.040 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-
Pesticides												
4,4'-DDD	ug/L	0.050 U	-	0.34 U	0.050 UJ	0.050 UJ	0.050 U	-	0.050 U	0.050 UJ	-	-
4,4'-DDE	ug/L	0.050 U	-	0.23 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
4,4'-DDT	ug/L	0.050 U	-	0.32 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 UJ	-	-
Aldrin	ug/L	0.050 U	-	0.25 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
alpha-BHC	ug/L	0.0087 J[b]	-	0.27 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
alpha-Chlordane	ug/L	0.050 U	-	0.23 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
beta-BHC	ug/L	0.0099 J	-	0.34 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
delta-BHC	ug/L	0.050 U	-	0.55 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Dieldrin	ug/L	0.050 U	-	0.25 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Endosulfan I	ug/L	0.050 U	-	0.30 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Endosulfan II	ug/L	0.050 U	-	0.29 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Endosulfan sulfate	ug/L	0.050 U	-	0.29 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Endrin	ug/L	0.050 U	-	0.25 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Endrin aldehyde	ug/L	0.050 U	-	0.34 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Endrin ketone	ug/L	0.050 U	-	0.30 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
gamma-BHC (lindane)	ug/L	0.050 U	-	0.25 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
gamma-Chlordane	ug/L	0.050 U	-	0.25 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Heptachlor	ug/L	0.050 U	-	0.27 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Heptachlor epoxide	ug/L	0.050 U	-	0.29 U	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	-	-
Methoxychlor	ug/L	0.10 U	-	0.25 U	0.10 U	0.10 U	0.10 U	-	0.10 U	0.10 UJ	-	-
Toxaphene	ug/L	2.0 U	-	3.7 U	2.0 U	2.0 U	2.0 U	-	2.0 U	2.0 U	-	-
Gases												
Ethane	ug/L	13	-	-	1.3	1.4	0.37 J	-	9.6 J	3.1	-	-
Ethene	ug/L	10 U	-	-	0.50 U	0.50 U	0.50 U	-	4.7 J	2.1	-	-
Methane	ug/L	23000	-	-	34	35	19	-	130	53	-	-
Herbicides												
2,4,5-T	ug/L	-	-	0.24 U	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	0.20 U	1.0 U	1.0 U	-	-	1.0 U	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	1.1 U	4.0 U	4.0 U	-	-	4.0 U	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	332000	-	-	414000	406000	392000	-	290000	320000	-	-
Chloride	ug/L	98600	-	70000	154000	154000	126000	-	92000	92200	-	-
Cyanide (total)	ug/L	-	-	5.0 UJ	10 U	10 U	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	2000	-	-	2000	3000	2000	-	2000 U	3000	-	-
Hardness	ug/L	-	-	-	441000	451000	448000	-	423000	-	-	-
Nitrate (as N)	ug/L	100 U	-	14 U	100 UJ	100 UJ	100 U	-	100 UJ	100 U	-	-
Nitrite (as N)	ug/L	100 U	-	14 U	100 UJ	100 UJ	100 U	-	100 UJ	100 U	-	-
Sulfate	ug/L	200 J	-	34000	73400	73300	78500	-	49400	48500	-	-
Sulfide (acid soluble)	ug/L	3000 U	-	-	3000 U	3000 U	3000 U	-	-	3000 U	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-2	VAS-2	VAS-3	VAS-3
Sample ID:		GW-38443-110608-BW-107	GW-38443-110708-BW-108	GW-38443-110708-BW-109	GW-38443-111008-DD-110	GW-38443-111008-DD-111	GW-38443-111008-DD-112	GW-38443-111108-DD-113	GW-38443-010909-KMV-110	GW-38443-010909-KMV-111	GW-38443-111308-DD-121	GW-38443-111508-DD-122
Sample Date:		11/6/2008	11/7/2008	11/7/2008	11/10/2008	11/10/2008	11/10/2008	11/11/2008	1/9/2009	1/9/2009	11/13/2008	11/15/2008
Sample Depth:		67-72 ft BGS	72-77 ft BGS	72-77 ft BGS Duplicate	77-82 ft BGS	82.5-87.5 ft BGS	87.5-92 ft BGS	92-97 ft BGS	65-70 ft BGS	65-70 ft BGS Duplicate	52-57 ft BGS	58.5-63.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	0.45 J
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1-Dichloroethane	ug/L	0.47 J	0.35 J	0.38 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.70 J	0.57 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	9.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ
Acetone	ug/L	4.1 J	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U
Benzene	ug/L	0.35 J	0.23 J	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.6	4.8[b]	4.6[b]	0.94 J	0.45 J	0.31 J	0.21 J	0.45 J	0.45 J	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Cyclohexane	ug/L	0.25 J	0.13 J	0.13 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.15 J	0.16 J	1.0 U	0.13 J
Dibromochloromethane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	ug/L	0.54 J	0.32 J	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	0.59 J	0.53 J	0.32 J	6.2
trans-1,2-Dichloroethene	ug/L	0.30 J	0.41 J	0.43 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	0.34 J[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.61 J[b]	0.59 J[b]	2.3[b]	1.6[b]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	1.0 UJ	-	-	-	1.0 U
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 U
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 U
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-2	VAS-2	VAS-3	VAS-3
Sample ID:		GW-38443-110608-BW-107	GW-38443-110708-BW-108	GW-38443-110708-BW-109	GW-38443-111008-DD-110	GW-38443-111008-DD-111	GW-38443-111008-DD-112	GW-38443-111108-DD-113	GW-38443-010909-KMV-110	GW-38443-010909-KMV-111	GW-38443-111308-DD-121	GW-38443-111508-DD-122
Sample Date:		11/6/2008	11/7/2008	11/7/2008	11/10/2008	11/10/2008	11/10/2008	11/11/2008	1/9/2009	1/9/2009	11/13/2008	11/15/2008
Sample Depth:		67-72 ft BGS	72-77 ft BGS	72-77 ft BGS Duplicate	77-82 ft BGS	82.5-87.5 ft BGS	87.5-92 ft BGS	92-97 ft BGS	65-70 ft BGS	65-70 ft BGS Duplicate	52-57 ft BGS	58.5-63.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 UJ
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 U
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 U
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
2-Chlorophenol	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
2-Methylphenol	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
2-Nitroaniline	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
2-Nitrophenol	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	R
3-Nitroaniline	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
4-Chloroaniline	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
4-Methylphenol	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
4-Nitroaniline	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
4-Nitrophenol	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 UJ
Acenaphthene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Acenaphthylene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Acetophenone	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Anthracene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Atrazine	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Benzaldehyde	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	2.0 U	-	-	-	2.0 U
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Caprolactam	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 UJ
Carbazole	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Chrysene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Dibenzofuran	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Diethyl phthalate	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Dimethyl phthalate	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	2.2 U
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Fluoranthene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Fluorene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Hexachlorobenzene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	10 UJ	-	-	-	R
Hexachloroethane	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Isophorone	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Naphthalene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Nitrobenzene	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U
Pentachlorophenol	ug/L	-	-	-	-	-	-	5.0 U	-	-	-	5.0 U
Phenanthrene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Phenol	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	1.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-2	VAS-2	VAS-3	VAS-3
Sample ID:		GW-38443-110608-BW-107	GW-38443-110708-BW-108	GW-38443-110708-BW-109	GW-38443-111008-DD-110	GW-38443-111008-DD-111	GW-38443-111008-DD-112	GW-38443-111108-DD-113	GW-38443-010909-KMV-110	GW-38443-010909-KMV-111	GW-38443-111308-DD-121	GW-38443-111508-DD-122
Sample Date:		11/6/2008	11/7/2008	11/7/2008	11/10/2008	11/10/2008	11/10/2008	11/11/2008	1/9/2009	1/9/2009	11/13/2008	11/15/2008
Sample Depth:		67-72 ft BGS	72-77 ft BGS	72-77 ft BGS Duplicate	77-82 ft BGS	82.5-87.5 ft BGS	87.5-92 ft BGS	92-97 ft BGS	65-70 ft BGS	65-70 ft BGS Duplicate	52-57 ft BGS	58.5-63.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	-	0.20 U	-	-	-	0.20 U
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	17.6[ab]	6.8[b]	8.0[b]	12.1 J[ab]	7.4 J[b]	3.6 J[b]	3.7 J[b]	125[ab]	123[ab]	9.9[b]	9.4[b]
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	13.9	4.6	5.5	13.5	5.9	0.98 J	0.28 J	273[ab]	279[ab]	10.7	29.4[ab]
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-1	VAS-2	VAS-2	VAS-3	VAS-3
Sample ID:		GW-38443-110608-BW-107	GW-38443-110708-BW-108	GW-38443-110708-BW-109	GW-38443-111008-DD-110	GW-38443-111008-DD-111	GW-38443-111008-DD-112	GW-38443-111108-DD-113	GW-38443-010909-KMV-110	GW-38443-010909-KMV-111	GW-38443-111308-DD-121	GW-38443-111508-DD-122
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Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-5	VAS-5	VAS-5
Sample ID:		GW-38443-111508-DD-123	GW-38443-111608-DD-124	GW-38443-111608-DD-125	GW-38443-111608-DD-126	GW-38443-111608-DD-127	GW-38443-111708-DD-128	GW-38443-111708-DD-129	GW-38443-111708-DD-130	GW-38443-121608-KMV-095	GW-38443-121708-KMV-097	GW-38443-121708-KMV-098
Sample Date:		11/15/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/17/2008	11/17/2008	11/17/2008	12/16/2008	12/17/2008	12/17/2008
Sample Depth:		65-67 ft BGS	67-69.5 ft BGS	73-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	65-70 ft BGS	70-75 ft BGS	80-85 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.55 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.7 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.18 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	3.4	3.9[b]
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	ug/L	0.14 J	0.14 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.39 J	0.18 J	0.33 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.27 J	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	ug/L	1.2	0.51 J	0.54 J	0.44 J	0.57 J	0.37 J	0.33 J	0.28 J	0.92 J	0.38 J	0.55 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	2.3[b]	0.31 J[b]	0.32 J[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.5[b]	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4[b]	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	0.47 J	2.0 U	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-5	VAS-5	VAS-5
Sample ID:		GW-38443-111508-DD-123	GW-38443-111608-DD-124	GW-38443-111608-DD-125	GW-38443-111608-DD-126	GW-38443-111608-DD-127	GW-38443-111708-DD-128	GW-38443-111708-DD-129	GW-38443-111708-DD-130	GW-38443-121608-KMV-095	GW-38443-121708-KMV-097	GW-38443-121708-KMV-098
Sample Date:		11/15/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/17/2008	11/17/2008	11/17/2008	12/16/2008	12/17/2008	12/17/2008
Sample Depth:		65-67 ft BGS	67-69.5 ft BGS	73-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	65-70 ft BGS	70-75 ft BGS	80-85 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	2.0 U	2.0 U	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-5**	**VAS-5**	**VAS-5**
Sample ID:		**GW-38443-111508-DD-123**	**GW-38443-111608-DD-124**	**GW-38443-111608-DD-125**	**GW-38443-111608-DD-126**	**GW-38443-111608-DD-127**	**GW-38443-111708-DD-128**	**GW-38443-111708-DD-129**	**GW-38443-111708-DD-130**	**GW-38443-121608-KMV-095**	**GW-38443-121708-KMV-097**	**GW-38443-121708-KMV-098**
Sample Date:		**11/15/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**	**11/17/2008**	**11/17/2008**	**11/17/2008**	**12/16/2008**	**12/17/2008**	**12/17/2008**
Sample Depth:		**65-67 ft BGS**	**67-69.5 ft BGS**	**73-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**92-97 ft BGS Duplicate**	**65-70 ft BGS**	**70-75 ft BGS**	**80-85 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	**99.5[ab]**	**24.8[ab]**	**24.4[ab]**	**33.1[ab]**	**23.5[ab]**	**23.5[ab]**	**19.5[ab]**	**21.9[ab]**	**70.4[ab]**	**68.7[ab]**	**71.7[ab]**
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	**180[ab]**	**40.5[ab]**	**37.5[ab]**	**45.5[ab]**	**29.0[ab]**	**32.1[ab]**	**22.8[ab]**	**27.3[ab]**	**39.3[ab]**	**41.1[ab]**	**81.4[ab]**
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-5	VAS-5	VAS-5
Sample ID:		GW-38443-111508-DD-123	GW-38443-111608-DD-124	GW-38443-111608-DD-125	GW-38443-111608-DD-126	GW-38443-111608-DD-127	GW-38443-111708-DD-128	GW-38443-111708-DD-129	GW-38443-111708-DD-130	GW-38443-121608-KMV-095	GW-38443-121708-KMV-097	GW-38443-121708-KMV-098
Sample Date:		11/15/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/17/2008	11/17/2008	11/17/2008	12/16/2008	12/17/2008	12/17/2008
Sample Depth:		65-67 ft BGS	67-69.5 ft BGS	73-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	65-70 ft BGS	70-75 ft BGS	80-85 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-5	VAS-5	VAS-5	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8
Sample ID:		GW-38443-121708-KMV-099	GW-38443-121708-KMV-100	GW-38443-121708-KMV-101	GW-38443-011009-KMV-222	GW-38443-011009-KMV-223	GW-38443-011009-KMV-224	GW-38443-011009-KMV-225	GW-38443-011009-KMV-226	GW-38443-011009-KMV-227	GW-38443-011009-KMV-228
Sample Date:		12/17/2008	12/17/2008	12/17/2008	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009
Sample Depth:		85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	3.5[b]	2.1 J	1.5 J	0.34 J	0.24 J	0.23 J	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	0.61 J	0.84 J	0.47 J	0.51 J	0.30 J	0.26 J
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	6.7 U	5.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	33 U	25 U	20 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	33 U	25 U	20 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	33 U	25 U	20 U	10 U	10 U	10 U	10 UJ
Acetone	ug/L	10 U	10 U	10 U	33 U	25 U	20 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	0.43 J	0.44 J	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	3.3 UJ	2.5 UJ	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	4.9[b]	5.1[b]	5.3[b]	87 J[ab]	85[ab]	71[ab]	23[b]	21[b]	17[b]	16[b]
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane	ug/L	0.30 J	0.33 J	0.19 J	3.3 U	2.5 U	2.0 U	0.16 J	0.19 J	0.14 J	0.13 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	3.3 UJ	2.5 UJ	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	3.3 UJ	2.5 UJ	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	33 U	25 U	20 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	17 U	12 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.60 J	0.64 J	0.38 J	0.57 J	0.69 J	0.45 J	0.45 J	0.66 J	0.43 J	0.55 J
trans-1,2-Dichloroethene	ug/L	1.0 U	0.21 J	0.21 J	3.3 U	0.50 J	0.43 J	1.0 U	1.0 U	0.26 J	0.32 J
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	2.3 J[b]	1.6 J[b]	0.74 J[b]	1.0[b]	0.98 J[b]	0.65 J[b]	0.63 J[b]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	20 J[ab]	35[ab]	34[ab]	7.7[ab]	7.0[ab]	2.8[ab]	2.1 J[ab]
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	6.7 U	5.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	1.0 UJ	1.0 U	-	-	-	-	-	1.0 U
2,4,5-Trichlorophenol	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
2,4,6-Trichlorophenol	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
2,4-Dichlorophenol	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
2,4-Dimethylphenol	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-5	VAS-5	VAS-5	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8
Sample ID:		GW-38443-121708-KMV-099	GW-38443-121708-KMV-100	GW-38443-121708-KMV-101	GW-38443-011009-KMV-222	GW-38443-011009-KMV-223	GW-38443-011009-KMV-224	GW-38443-011009-KMV-225	GW-38443-011009-KMV-226	GW-38443-011009-KMV-227	GW-38443-011009-KMV-228
Sample Date:		12/17/2008	12/17/2008	12/17/2008	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009
Sample Depth:		85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4-Dinitrophenol	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
2,4-Dinitrotoluene	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
2,6-Dinitrotoluene	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
2-Chloronaphthalene	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
2-Chlorophenol	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
2-Methylnaphthalene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
2-Methylphenol	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
2-Nitroaniline	ug/L	-	-	2.0 UJ	2.0 U	-	-	-	-	-	2.0 U
2-Nitrophenol	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
3-Nitroaniline	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
4-Chloro-3-methylphenol	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
4-Chloroaniline	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
4-Methylphenol	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
4-Nitroaniline	ug/L	-	-	2.0 U	2.0 U	-	-	-	-	-	2.0 U
4-Nitrophenol	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
Acenaphthene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Acenaphthylene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Acetophenone	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Anthracene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Atrazine	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Benzaldehyde	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Benzo(a)anthracene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Benzo(a)pyrene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Benzo(b)fluoranthene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Benzo(g,h,i)perylene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Benzo(k)fluoranthene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	2.0 U	1.0 J	-	-	-	-	-	0.95 J
Butyl benzylphthalate (BBP)	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Caprolactam	ug/L	-	-	5.0 UJ	5.0 UJ	-	-	-	-	-	5.0 UJ
Carbazole	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Chrysene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Dibenz(a,h)anthracene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Dibenzofuran	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Diethyl phthalate	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Dimethyl phthalate	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Fluoranthene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Fluorene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Hexachlorobenzene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Hexachlorobutadiene	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Hexachlorocyclopentadiene	ug/L	-	-	10 U	10 U	-	-	-	-	-	10 U
Hexachloroethane	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Isophorone	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Naphthalene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Nitrobenzene	ug/L	-	-	1.0 UJ	1.0 U	-	-	-	-	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
N-Nitrosodiphenylamine	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U
Pentachlorophenol	ug/L	-	-	5.0 U	5.0 U	-	-	-	-	-	5.0 U
Phenanthrene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Phenol	ug/L	-	-	1.0 U	1.0 U	-	-	-	-	-	1.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-5**	**VAS-5**	**VAS-5**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**
Sample ID:		**GW-38443-121708-KMV-099**	**GW-38443-121708-KMV-100**	**GW-38443-121708-KMV-101**	**GW-38443-011009-KMV-222**	**GW-38443-011009-KMV-223**	**GW-38443-011009-KMV-224**	**GW-38443-011009-KMV-225**	**GW-38443-011009-KMV-226**	**GW-38443-011009-KMV-227**	**GW-38443-011009-KMV-228**
Sample Date:		**12/17/2008**	**12/17/2008**	**12/17/2008**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**
Sample Depth:		**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Pyrene	ug/L	-	-	0.20 U	0.20 U	-	-	-	-	-	0.20 U
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	**40.2[ab]**	**29.6[ab]**	**20.0[ab]**	**74.1[ab]**	**57.0[ab]**	**29.6[ab]**	**66.5[ab]**	**29.2[ab]**	**42.9[ab]**	**24.9[ab]**
Arsenic (dissolved)	ug/L	-	**3.9 J[b]**	-	**5.8[b]**	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	**40.7[ab]**	**39.4[ab]**	**18.6[ab]**	**164[ab]**	**145[ab]**	**60.3[ab]**	**158[ab]**	**57.5[ab]**	**96.8[ab]**	**49.9[ab]**
Lead (dissolved)	ug/L	-	1.9	-	1.0 U	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-5**	**VAS-5**	**VAS-5**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**
Sample ID:		**GW-38443-121708-KMV-099**	**GW-38443-121708-KMV-100**	**GW-38443-121708-KMV-101**	**GW-38443-011009-KMV-222**	**GW-38443-011009-KMV-223**	**GW-38443-011009-KMV-224**	**GW-38443-011009-KMV-225**	**GW-38443-011009-KMV-226**	**GW-38443-011009-KMV-227**	**GW-38443-011009-KMV-228**
Sample Date:		**12/17/2008**	**12/17/2008**	**12/17/2008**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**
Sample Depth:		**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-11	VAS-11
Sample ID:		GW-38443-111908-DD-135	GW-38443-111908-DD-136	GW-38443-111908-DD-137	GW-38443-111908-DD-138	GW-38443-111908-DD-139	GW-38443-111908-DD-140	GW-38443-112008-DD-141	GW-38443-112008-DD-142	GW-38443-112008-DD-143	GW-38443-120808-DD-180	GW-38443-120808-DD-181
Sample Date:		11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/20/2008	11/20/2008	11/20/2008	12/8/2008	12/8/2008
Sample Depth:		57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	57-62 ft BGS	62-67 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	0.24 J	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	0.74 J	0.48 J
1,1-Dichloroethene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	11 U	10 U	6.7 U	3.3 U	2.0 U	3.3 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	57 U	50 U	33 U	17 U	10 U	17 U	25 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	57 U	50 U	33 U	17 U	10 U	17 U	25 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	57 U	50 U	33 U	17 U	10 U	17 U	25 U	10 U	10 U	10 U	10 U
Acetone	ug/L	57 U	50 U	33 U	17 UJ	10 U	17 U	25 U	10 U	10 UJ	10 UJ	10 U
Benzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	**0.54 J[b]**	1.0 U
Bromodichloromethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	0.29 J	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	5.7 U	5.0 U	3.3 U	1.7 UJ	1.0 U	1.7 U	2.5 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chlorobenzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	0.26 J	0.23 J
Chloroethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	**88[ab]**	**51[b]**	**49[b]**	**23[b]**	**25[b]**	**30[b]**	**45[b]**	**23[b]**	**21[b]**	0.41 J	0.25 J
cis-1,3-Dichloropropene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	0.12 J	1.7 U	2.5 U	1.0 U	1.0 U	0.24 J	0.26 J
Dibromochloromethane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	57 U	50 U	33 U	17 U	10 U	17 U	25 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	29 U	25 U	17 U	8.4 U	5.0 U	8.4 U	12 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	5.7 U	5.0 U	3.3 U	0.90 J	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	0.41 J	0.33 J
Toluene	ug/L	1.9 J	2.0 J	1.5 J	1.6 J	0.56 J	1.1 J	2.2 J	2.4	2.2	1.2	1.0
trans-1,2-Dichloroethene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	0.60 J	0.49 J	0.61 J	0.39 J	0.34 J	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	ug/L	**220[ab]**	**150[ab]**	**120[ab]**	**56[ab]**	**38[ab]**	**57[ab]**	**78[ab]**	**31[ab]**	**26[ab]**	**0.47 J[b]**	**0.34 J[b]**
Trichlorofluoromethane (CFC-11)	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	**2.3 J[ab]**	**1.6 J[b]**	**0.99 J[b]**	**0.58 J[b]**	**0.28 J[b]**	**0.37 J[b]**	**0.92 J[b]**	**0.67 J[b]**	**0.63 J[b]**	**0.29 J[b]**	1.0 U
Xylenes (total)	ug/L	11 U	10 U	6.7 U	3.3 U	2.0 U	3.3 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
2,4,5-Trichlorophenol	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
2,4,6-Trichlorophenol	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
2,4-Dichlorophenol	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
2,4-Dimethylphenol	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-11	VAS-11
Sample ID:		GW-38443-111908-DD-135	GW-38443-111908-DD-136	GW-38443-111908-DD-137	GW-38443-111908-DD-138	GW-38443-111908-DD-139	GW-38443-111908-DD-140	GW-38443-112008-DD-141	GW-38443-112008-DD-142	GW-38443-112008-DD-143	GW-38443-120808-DD-180	GW-38443-120808-DD-181
Sample Date:		11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/20/2008	11/20/2008	11/20/2008	12/8/2008	12/8/2008
Sample Depth:		57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	57-62 ft BGS	62-67 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
2,4-Dinitrotoluene	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
2,6-Dinitrotoluene	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
2-Chloronaphthalene	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Chlorophenol	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Methylnaphthalene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
2-Methylphenol	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
2-Nitrophenol	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
3-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
4-Bromophenyl phenyl ether	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Chloro-3-methylphenol	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Chloroaniline	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Chlorophenyl phenyl ether	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Methylphenol	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
4-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
4-Nitrophenol	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
Acenaphthene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Acenaphthylene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Acetophenone	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Anthracene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Atrazine	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Benzaldehyde	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Benzo(a)anthracene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(a)pyrene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(b)fluoranthene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(g,h,i)perylene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Benzo(k)fluoranthene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
bis(2-Chloroethoxy)methane	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
bis(2-Chloroethyl)ether	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	-	-	-	-	-	-	2.0 U	2.4 U	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Caprolactam	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 UJ	-
Carbazole	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Chrysene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Dibenz(a,h)anthracene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Dibenzofuran	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Diethyl phthalate	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Dimethyl phthalate	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Di-n-butylphthalate (DBP)	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Fluoranthene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Fluorene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Hexachlorobenzene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Hexachlorobutadiene	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Hexachlorocyclopentadiene	ug/L	10 U	-	-	-	-	-	-	10 U	10 U	10 U	-
Hexachloroethane	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Isophorone	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Naphthalene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Nitrobenzene	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
N-Nitrosodiphenylamine	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Pentachlorophenol	ug/L	5.0 U	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	-
Phenanthrene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Phenol	ug/L	1.0 U	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-11**	**VAS-11**
Sample ID:		**GW-38443-111908-DD-135**	**GW-38443-111908-DD-136**	**GW-38443-111908-DD-137**	**GW-38443-111908-DD-138**	**GW-38443-111908-DD-139**	**GW-38443-111908-DD-140**	**GW-38443-112008-DD-141**	**GW-38443-112008-DD-142**	**GW-38443-112008-DD-143**	**GW-38443-120808-DD-180**	**GW-38443-120808-DD-181**
Sample Date:		**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/20/2008**	**11/20/2008**	**11/20/2008**	**12/8/2008**	**12/8/2008**
Sample Depth:		**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**92-97 ft BGS Duplicate**	**57-62 ft BGS**	**62-67 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	0.20 U	-	-	-	-	-	-	0.20 U	0.20 U	0.20 U	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	**30.5[ab]**	**16.3[ab]**	**21.9[ab]**	**8.4[b]**	**11.2[ab]**	**18.0[ab]**	**17.2[ab]**	**7.2[b]**	**7.3[b]**	**1030[ab]**	**604[ab]**
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	**104[ab]**	**55.8[ab]**	**58.0[ab]**	14.0	**20.5[ab]**	**37.9[ab]**	**45.2[ab]**	11.4	11.1	**275[ab]**	**138[ab]**
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-9	VAS-11	VAS-11
Sample ID:		GW-38443-111908-DD-135	GW-38443-111908-DD-136	GW-38443-111908-DD-137	GW-38443-111908-DD-138	GW-38443-111908-DD-139	GW-38443-111908-DD-140	GW-38443-112008-DD-141	GW-38443-112008-DD-142	GW-38443-112008-DD-143	GW-38443-120808-DD-180	GW-38443-120808-DD-181
Sample Date:		11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/19/2008	11/20/2008	11/20/2008	11/20/2008	12/8/2008	12/8/2008
Sample Depth:		57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	57-62 ft BGS	62-67 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**
Sample ID:		**GW-38443-120908-DD-182**	**GW-38443-120908-DD-183**	**GW-38443-120908-DD-184**	**GW-38443-120908-DD-185**	**GW-38443-120908-DD-186**	**GW-38443-120908-DD-187**	**GW-38443-120908-DD-188**	**GW-38443-111108-KMV-022**	**GW-38443-111108-KMV-023**	**GW-38443-111208-KMV-024**	**GW-38443-111208-KMV-025**
Sample Date:		**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**11/11/2008**	**11/11/2008**	**11/12/2008**	**11/12/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**77-82 ft BGS Duplicate**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 J	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.53 J	0.54 J	0.37 J	0.41 J	0.32 J	0.48 J	1.0 U	0.60 J	0.41 J	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	ug/L	0.18 J	0.21 J	0.16 J	0.18 J	0.18 J	0.12 J	0.18 J	0.13 J	1.0 UJ	1.0 UJ	1.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.38 J	1.3	0.36 J	0.50 J	0.51 J	0.97 J	1.4	0.30 J	0.33 J	0.17 J	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4[b]	2.1[b]	1.0 U	0.45 J[b]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 UJ	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-12	VAS-12	VAS-12	VAS-12
Sample ID:		GW-38443-120908-DD-182	GW-38443-120908-DD-183	GW-38443-120908-DD-184	GW-38443-120908-DD-185	GW-38443-120908-DD-186	GW-38443-120908-DD-187	GW-38443-120908-DD-188	GW-38443-111108-KMV-022	GW-38443-111108-KMV-023	GW-38443-111208-KMV-024	GW-38443-111208-KMV-025
Sample Date:		12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	11/11/2008	11/11/2008	11/12/2008	11/12/2008
Sample Depth:		67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	77-82 ft BGS Duplicate	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	55-60 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Acetophenone	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Anthracene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Atrazine	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	3.7 U	-	2.0 U	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Caprolactam	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
Carbazole	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Chrysene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Fluorene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	18 U	-	10 UJ	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Isophorone	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Naphthalene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	9.2 U	-	5.0 U	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Phenol	ug/L	-	-	-	-	-	-	1.8 U	-	1.0 U	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**
Sample ID:		**GW-38443-120908-DD-182**	**GW-38443-120908-DD-183**	**GW-38443-120908-DD-184**	**GW-38443-120908-DD-185**	**GW-38443-120908-DD-186**	**GW-38443-120908-DD-187**	**GW-38443-120908-DD-188**	**GW-38443-111108-KMV-022**	**GW-38443-111108-KMV-023**	**GW-38443-111208-KMV-024**	**GW-38443-111208-KMV-025**
Sample Date:		**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**11/11/2008**	**11/11/2008**	**11/12/2008**	**11/12/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**77-82 ft BGS Duplicate**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	-	0.37 U	-	0.20 U	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	271[ab]	224[ab]	211[ab]	234[ab]	103[ab]	732[ab]	157[ab]	70.8 J[ab]	171 J[ab]	33.0 J[ab]	25.0 J[ab]
Arsenic (dissolved)	ug/L	12.2[ab]	-	-	-	-	-	1.3 J[b]	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	97.9[ab]	69.0[ab]	124[ab]	127[ab]	54.6[ab]	320[ab]	76.7[ab]	20.8[ab]	126[ab]	14.3	10
Lead (dissolved)	ug/L	4.0	-	-	-	-	-	1.0 U	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**
Sample ID:		**GW-38443-120908-DD-182**	**GW-38443-120908-DD-183**	**GW-38443-120908-DD-184**	**GW-38443-120908-DD-185**	**GW-38443-120908-DD-186**	**GW-38443-120908-DD-187**	**GW-38443-120908-DD-188**	**GW-38443-111108-KMV-022**	**GW-38443-111108-KMV-023**	**GW-38443-111208-KMV-024**	**GW-38443-111208-KMV-025**
Sample Date:		**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**11/11/2008**	**11/11/2008**	**11/12/2008**	**11/12/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**77-82 ft BGS Duplicate**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-12	VAS-12	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111208-KMV-026	GW-38443-111208-KMV-027	GW-38443-111308-KMV-028	GW-38443-111308-KMV-029	GW-38443-111408-KMV-030	GW-38443-111708-KMV-039	GW-38443-111708-KMV-040	GW-38443-111708-KMV-041	GW-38443-111808-KMV-042	GW-38443-111808-KMV-043
Sample Date:		11/12/2008	11/12/2008	11/13/2008	11/13/2008	11/14/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008	11/18/2008
Sample Depth:		75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U	1.7 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	2.4	2.5
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	22 U	16 U	16 U	3.3 U	3.3 UJ
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	110 U	80 U	80 U	17 U	17 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	110 U	80 U	80 U	17 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 UJ	10 UJ	10 UJ	110 U	80 U	80 U	17 U	17 U
Acetone	ug/L	10 UJ	10 UJ	10 U	10 U	10 U	110 U	80 U	80 U	17 U	17 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	11 U	8.0 U	8.0 U	1.7 UJ	1.7 UJ
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**390[ab]**	**290[ab]**	**270[ab]**	**130 J[ab]**	**120 J[ab]**
cis-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U	1.7 U
Cyclohexane	ug/L	0.14 J	1.0 UJ	1.0 U	1.0 U	0.16 J	11 UJ	8.0 UJ	8.0 UJ	1.7 U	1.7 U
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	11 U	8.0 U	8.0 U	1.7 UJ	1.7 UJ
Ethylbenzene	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	11 UJ	8.0 UJ	8.0 UJ	1.7 U	1.7 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	110 U	80 U	80 U	17 U	17 U
Methyl cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U	1.7 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	56 U	40 U	40 U	8.4 U	8.4 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	25 U	19 U	15 U	1.7 U	1.7 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 UJ	1.7 UJ
Toluene	ug/L	0.30 J	1.0 U	1.0 U	1.0 U	0.28 J	11 U	8.0 U	8.0 U	1.7 U	1.7 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.2 J	2.3 J	1.7 J	0.86 J	0.52 J
trans-1,3-Dichloropropene	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U	1.7 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	11 U	8.0 U	8.0 U	1.7 U	1.7 U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**120[ab]**	**50[ab]**	**50[ab]**	**28[ab]**	**28 J[ab]**
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ	22 UJ	16 UJ	16 UJ	3.3 U	3.3 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
2,4-Dichlorophenol	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
2,4-Dimethylphenol	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-12	VAS-12	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111208-KMV-026	GW-38443-111208-KMV-027	GW-38443-111308-KMV-028	GW-38443-111308-KMV-029	GW-38443-111408-KMV-030	GW-38443-111708-KMV-039	GW-38443-111708-KMV-040	GW-38443-111708-KMV-041	GW-38443-111808-KMV-042	GW-38443-111808-KMV-043
Sample Date:		11/12/2008	11/12/2008	11/13/2008	11/13/2008	11/14/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008	11/18/2008
Sample Depth:		75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4-Dinitrophenol	ug/L	-	-	-	-	5.0 UJ	-	-	-	5.0 U	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
2-Chloronaphthalene	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
2-Chlorophenol	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
2-Methylnaphthalene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
2-Methylphenol	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
2-Nitroaniline	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
2-Nitrophenol	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
3-Nitroaniline	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
4-Chloroaniline	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
4-Methylphenol	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
4-Nitroaniline	ug/L	-	-	-	-	2.0 U	-	-	-	2.0 U	-
4-Nitrophenol	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
Acenaphthene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Acenaphthylene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Acetophenone	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Anthracene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Atrazine	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Benzaldehyde	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Benzo(a)anthracene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Benzo(a)pyrene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	2.5 U	-	-	-	2.0 U	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Caprolactam	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
Carbazole	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Chrysene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Dibenzofuran	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Diethyl phthalate	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Dimethyl phthalate	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Fluoranthene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Fluorene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Hexachlorobenzene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Hexachlorobutadiene	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	10 U	-	-	-	10 UJ	-
Hexachloroethane	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Isophorone	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Naphthalene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Nitrobenzene	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-
Pentachlorophenol	ug/L	-	-	-	-	5.0 U	-	-	-	5.0 U	-
Phenanthrene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Phenol	ug/L	-	-	-	-	1.0 U	-	-	-	1.0 U	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-12	VAS-12	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111208-KMV-026	GW-38443-111208-KMV-027	GW-38443-111308-KMV-028	GW-38443-111308-KMV-029	GW-38443-111408-KMV-030	GW-38443-111708-KMV-039	GW-38443-111708-KMV-040	GW-38443-111708-KMV-041	GW-38443-111808-KMV-042	GW-38443-111808-KMV-043
Sample Date:		11/12/2008	11/12/2008	11/13/2008	11/13/2008	11/14/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008	11/18/2008
Sample Depth:		75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Pyrene	ug/L	-	-	-	-	0.20 U	-	-	-	0.20 U	-
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	27.9 J[ab]	6.8 J[b]	3.4 J[b]	3.4 J[b]	12.1[ab]	56.0[ab]	11.8[ab]	6.7[b]	7.8[b]	6.2[b]
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	44.4[ab]	6.3	1.0	0.35 J	13.2	93.9[ab]	9.0	1.7	9.4	0.32 J
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-14**	**VAS-14**	**VAS-14**	**VAS-14**	**VAS-14**
Sample ID:		**GW-38443-111208-KMV-026**	**GW-38443-111208-KMV-027**	**GW-38443-111308-KMV-028**	**GW-38443-111308-KMV-029**	**GW-38443-111408-KMV-030**	**GW-38443-111708-KMV-039**	**GW-38443-111708-KMV-040**	**GW-38443-111708-KMV-041**	**GW-38443-111808-KMV-042**	**GW-38443-111808-KMV-043**
Sample Date:		**11/12/2008**	**11/12/2008**	**11/13/2008**	**11/13/2008**	**11/14/2008**	**11/17/2008**	**11/17/2008**	**11/17/2008**	**11/18/2008**	**11/18/2008**
Sample Depth:		**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-14	VAS-14	VAS-14	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15
Sample ID:		GW-38443-111808-KMV-044	GW-38443-111808-KMV-045	GW-38443-111908-KMV-046	GW-38443-120908-KMV-080	GW-38443-120908-KMV-081	GW-38443-120908-KMV-082	GW-38443-120908-KMV-083	GW-38443-121008-KMV-084	GW-38443-121008-KMV-085	GW-38443-121008-KMV-086
Sample Date:		11/18/2008	11/18/2008	11/19/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/10/2008	12/10/2008	12/10/2008
Sample Depth:		85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,1-Dichloroethene	ug/L	2.3	2.3	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzene	ug/L	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U	0.50 J[b]	0.50 J[b]	0.87 J[b]	0.66 J[b]	5.0 U
Bromodichloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
cis-1,2-Dichloroethene	ug/L	74 J[ab]	75 J[ab]	28[b]	13[b]	12[b]	9.8[b]	9.9[b]	28 J[b]	24[b]	130[ab]
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
Cyclohexane	ug/L	1.0 U	1.0 U	0.22 J	0.55 J	0.57 J	0.47 J	0.42 J	0.30 J	0.27 J	5.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Tetrachloroethene	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Toluene	ug/L	0.17 J	1.0 U	0.41 J	0.38 J	0.44 J	0.45 J	0.41 J	0.49 J	0.27 J	5.0 U
trans-1,2-Dichloroethene	ug/L	0.49 J	0.40 J	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	0.21 J	5.0 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	2.7[b]	1.7[b]	2.1[b]	2.5[b]	3.5[b]	1.6[b]	6.9[ab]
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Vinyl chloride	ug/L	13[ab]	14[ab]	2.1[ab]	30[ab]	29[ab]	16[ab]	15[ab]	27 J[ab]	28[ab]	28[ab]
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	10 UJ
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	2.0 U	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-14**	**VAS-14**	**VAS-14**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**
Sample ID:		**GW-38443-111808-KMV-044**	**GW-38443-111808-KMV-045**	**GW-38443-111908-KMV-046**	**GW-38443-120908-KMV-080**	**GW-38443-120908-KMV-081**	**GW-38443-120908-KMV-082**	**GW-38443-120908-KMV-083**	**GW-38443-121008-KMV-084**	**GW-38443-121008-KMV-085**	**GW-38443-121008-KMV-086**
Sample Date:		**11/18/2008**	**11/18/2008**	**11/19/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/10/2008**	**12/10/2008**	**12/10/2008**
Sample Depth:		**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
2,4-Dinitrophenol	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	2.0 U	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	0.95 J	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	10 U	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	1.0 U	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	5.0 U	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Phenol	ug/L	-	-	1.0 U	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-14	VAS-14	VAS-14	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15
Sample ID:		GW-38443-111808-KMV-044	GW-38443-111808-KMV-045	GW-38443-111908-KMV-046	GW-38443-120908-KMV-080	GW-38443-120908-KMV-081	GW-38443-120908-KMV-082	GW-38443-120908-KMV-083	GW-38443-121008-KMV-084	GW-38443-121008-KMV-085	GW-38443-121008-KMV-086
Sample Date:		11/18/2008	11/18/2008	11/19/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/10/2008	12/10/2008	12/10/2008
Sample Depth:		85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Pyrene	ug/L	-	-	0.20 U	-	-	-	-	-	-	-
Metals											
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	7.6[b]	5.4[b]	18.2[ab]	61.3[ab]	40.3[ab]	53.4[ab]	56.8[ab]	88.8[ab]	17.5[ab]	56.3[ab]
Arsenic (dissolved)	ug/L	-	-	-	-	-	2.0 J[b]	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	10.8	4.1	40.8[ab]	110[ab]	65.4[ab]	86.9[ab]	92.2[ab]	152[ab]	21.9[ab]	102[ab]
Lead (dissolved)	ug/L	-	-	-	-	-	1.3	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-14**	**VAS-14**	**VAS-14**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**
Sample ID:		**GW-38443-111808-KMV-044**	**GW-38443-111808-KMV-045**	**GW-38443-111908-KMV-046**	**GW-38443-120908-KMV-080**	**GW-38443-120908-KMV-081**	**GW-38443-120908-KMV-082**	**GW-38443-120908-KMV-083**	**GW-38443-121008-KMV-084**	**GW-38443-121008-KMV-085**	**GW-38443-121008-KMV-086**
Sample Date:		**11/18/2008**	**11/18/2008**	**11/19/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/10/2008**	**12/10/2008**	**12/10/2008**
Sample Depth:		**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-15**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**
Sample ID:		**GW-38443-121008-KMV-087**	**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**	**GW-38443-121517-KVM-005**	**GW-38443-120108-KMV-050**	**GW-38443-120108-KMV-051**	**GW-38443-120208-KMV-052**	**GW-38443-120208-KMV-053**
Sample Date:		**12/10/2008**	**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**	**12/15/2017**	**12/1/2008**	**12/1/2008**	**12/2/2008**	**12/2/2008**
Sample Depth:		**95-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**50-55 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	5.0 UJ	0.53 U	4.6 U	0.32 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	5.0 U	0.57 U	4.9 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	5.0 U	1.0 J	3.6 U	0.25 U	0.25 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	5.0 U	0.45 U	3.9 U	0.27 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	5.0 U	0.45 U	3.9 U	0.27 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	10 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	5.0 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	5.0 U	0.43 U	3.7 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	5.0 U	0.50 U	4.3 U	0.30 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	5.0 UJ	0.50 U	4.3 U	0.30 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	5.0 U	0.53 U	4.6 U	0.32 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	50 U	1.7 U	15 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	50 U	2.1 U	18 U	1.2 U	1.2 U	1.2 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	50 U	1.2 U	10 U	0.71 U	0.71 U	0.71 U	10 U	10 U	10 U	10 U
Acetone	ug/L	50 U	2.9 U	25 U	1.8 U	1.8 U	1.8 U	10 UJ	10 UJ	10 UJ	10 UJ
Benzene	ug/L	5.0 U	0.47 U	4.0 U	0.28 U	0.28 U	0.28 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	5.0 U	0.50 U	4.3 U	0.30 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	5.0 U	0.72 U	6.1 U	0.43 U	0.43 U	0.43 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	ug/L	5.0 U	0.70 UJ	6.0 UJ	0.42 UJ	0.42 UJ	0.42 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	5.0 U	0.57 U	4.9 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	5.0 U	0.58 U	5.0 U	0.35 U	0.35 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	5.0 U	0.53 U	4.6 U	0.32 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	5.0 U	0.68 U	5.9 U	0.41 U	0.41 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	5.0 U	0.52 U	4.4 U	0.31 U	0.31 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	5.0 U	0.72 U	6.1 U	0.43 U	0.43 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	**150[ab]**	**47[b]**	**120[ab]**	**16[b]**	**6.8[b]**	0.78 J	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	ug/L	5.0 UJ	0.43 U	3.7 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	5.0 U	0.73 U	6.3 U	0.44 U	0.44 U	0.44 U	1.0 U	1.0 U	0.17 J	1.0 U
Dibromochloromethane	ug/L	5.0 U	0.42 U	3.6 U	0.25 U	0.25 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.0 UJ	0.84 U	7.1 U	0.50 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	5.0 UJ	0.43 U	3.7 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	5.0 U	0.35 U	3.0 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	0.40 U	3.4 U	0.24 U	0.24 U	0.24 U	-	-	-	-
Methyl acetate	ug/L	50 U	2.4 U	20 U	1.4 U	1.4 U	1.4 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	5.0 U	0.75 U	6.4 U	0.45 U	0.45 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	25 U	0.45 U	3.9 U	0.27 U	0.27 U	0.27 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	5.0 U	2.0	13 U	0.53 U	0.53 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	0.47 U	4.0 U	0.28 U	0.28 U	0.28 U	-	-	-	-
Styrene	ug/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	5.0 U	0.50 U	4.3 U	0.30 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	0.34 J	1.0 U
trans-1,2-Dichloroethene	ug/L	5.0 U	0.48 U	4.1 U	0.29 J	0.29 U	0.29 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	5.0 UJ	0.52 U	4.4 U	0.31 U	0.31 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	**8.9[ab]**	0.55 U	4.7 U	0.33 U	0.33 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	5.0 U	0.84 U	7.1 U	0.50 U	0.50 U	0.50 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	5.0 U	0.68 U	5.9 U	0.41 U	0.41 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	**27[ab]**	**31[ab]**	**70[ab]**	**27[ab]**	**27[ab]**	**15[ab]**	**0.95 J[b]**	**1.0[b]**	**1.8[b]**	**1.9[b]**
Xylenes (total)	ug/L	10 UJ	0.40 U	3.4 U	0.24 U	0.24 U	0.24 U	2.0 U	2.0 U	2.0 U	2.0 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
2,4,5-Trichlorophenol	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
2,4,6-Trichlorophenol	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
2,4-Dichlorophenol	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
2,4-Dimethylphenol	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-15	VAS-15B	VAS-15B	VAS-15B	VAS-15B	VAS-15B	VAS-17	VAS-17	VAS-17	VAS-17
Sample ID:		GW-38443-121008-KMV-087	GW-38443-121317-KVM-001	GW-38443-121317-KVM-002	GW-38443-121417-KVM-003	GW-38443-121417-KVM-004	GW-38443-121517-KVM-005	GW-38443-120108-KMV-050	GW-38443-120108-KMV-051	GW-38443-120208-KMV-052	GW-38443-120208-KMV-053
Sample Date:		12/10/2008	12/13/2017	12/13/2017	12/14/2017	12/14/2017	12/15/2017	12/1/2008	12/1/2008	12/2/2008	12/2/2008
Sample Depth:		95-100 ft BGS	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	65-70 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4-Dinitrophenol	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
2,4-Dinitrotoluene	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
2,6-Dinitrotoluene	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
2-Chloronaphthalene	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
2-Chlorophenol	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
2-Methylnaphthalene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
2-Methylphenol	ug/L	1.0 U	-	-	-	-	-	1.0 UJ	-	-	-
2-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
2-Nitrophenol	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
3-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
4-Bromophenyl phenyl ether	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
4-Chloro-3-methylphenol	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
4-Chloroaniline	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
4-Chlorophenyl phenyl ether	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
4-Methylphenol	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
4-Nitroaniline	ug/L	2.0 U	-	-	-	-	-	2.0 U	-	-	-
4-Nitrophenol	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
Acenaphthene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Acenaphthylene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Acetophenone	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Anthracene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Atrazine	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Benzaldehyde	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Benzo(a)anthracene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Benzo(a)pyrene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Benzo(b)fluoranthene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Benzo(g,h,i)perylene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Benzo(k)fluoranthene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
bis(2-Chloroethoxy)methane	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
bis(2-Chloroethyl)ether	ug/L	1.0 U	-	-	-	-	-	1.0 UJ	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	-	-	-	-	-	3.0	-	-	-
Butyl benzylphthalate (BBP)	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Caprolactam	ug/L	5.0 U	-	-	-	-	-	5.0 UJ	-	-	-
Carbazole	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Chrysene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Dibenz(a,h)anthracene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Dibenzofuran	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Diethyl phthalate	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Dimethyl phthalate	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Di-n-butylphthalate (DBP)	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Fluoranthene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Fluorene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Hexachlorobenzene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Hexachlorobutadiene	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Hexachlorocyclopentadiene	ug/L	10 U	-	-	-	-	-	10 UJ	-	-	-
Hexachloroethane	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Isophorone	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Naphthalene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Nitrobenzene	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
N-Nitrosodi-n-propylamine	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
N-Nitrosodiphenylamine	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-
Pentachlorophenol	ug/L	5.0 U	-	-	-	-	-	5.0 U	-	-	-
Phenanthrene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Phenol	ug/L	1.0 U	-	-	-	-	-	1.0 U	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-15**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**
Sample ID:		**GW-38443-121008-KMV-087**	**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**	**GW-38443-121517-KVM-005**	**GW-38443-120108-KMV-050**	**GW-38443-120108-KMV-051**	**GW-38443-120208-KMV-052**	**GW-38443-120208-KMV-053**
Sample Date:		**12/10/2008**	**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**	**12/15/2017**	**12/1/2008**	**12/1/2008**	**12/2/2008**	**12/2/2008**
Sample Depth:		**95-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**50-55 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Pyrene	ug/L	0.20 U	-	-	-	-	-	0.20 U	-	-	-
Metals											
Aluminum	ug/L	-	**2100[b]**	89	34 U	43 J	1000	-	-	-	-
Aluminum (dissolved)	ug/L	-	34 U	34 U	34 U	34 U	34 U	-	-	-	-
Antimony	ug/L	-	**1.5 J[b]**	0.68 J	**1.2 J[b]**	0.57 U	0.57 U	-	-	-	-
Antimony (dissolved)	ug/L	-	0.73 J	0.63 J	0.57 U	0.57 U	0.57 U	-	-	-	-
Arsenic	ug/L	**22.7[ab]**	**5.1[b]**	**2.0 J[b]**	**2.9 J[b]**	**1.3 J[b]**	**1.4 J[b]**	**4.1 J[b]**	**3.5 J[b]**	**15.7[ab]**	**5.9[b]**
Arsenic (dissolved)	ug/L	-	**3.4 J[b]**	**2.0 J[b]**	**2.3 J[b]**	**1.1 J[b]**	**0.77 J[b]**	-	-	-	-
Barium	ug/L	-	120	84	89	97	120	-	-	-	-
Barium (dissolved)	ug/L	-	98	82	89	98	110	-	-	-	-
Beryllium	ug/L	-	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	-	-	-	-
Beryllium (dissolved)	ug/L	-	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	-	-	-	-
Cadmium	ug/L	-	0.27 J	0.21 U	0.21 U	0.21 U	0.21 U	-	-	-	-
Cadmium (dissolved)	ug/L	-	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	-	-	-	-
Calcium	ug/L	-	120000	100000	96000	98000	100000	-	-	-	-
Calcium (dissolved)	ug/L	-	110000	100000	95000	96000	96000	-	-	-	-
Chromium	ug/L	-	6.2	1.3 J	0.98 U	0.98 U	3.2	-	-	-	-
Chromium (dissolved)	ug/L	-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	-	-	-	-
Cobalt	ug/L	-	**1.5[b]**	0.30 J	0.31 J	0.19 U	**1.1[b]**	-	-	-	-
Cobalt (dissolved)	ug/L	-	0.22 J	0.21 J	0.19 U	0.19 U	0.24 J	-	-	-	-
Copper	ug/L	-	5.2	1.7 U	1.7 U	1.7 U	3.0	-	-	-	-
Copper (dissolved)	ug/L	-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	-	-	-	-
Iron	ug/L	-	**10000[b]**	**3700[b]**	**2400[b]**	**4000[b]**	**5600[b]**	-	-	-	-
Iron (dissolved)	ug/L	-	**2700[b]**	**2800[b]**	**2300[b]**	**3700[b]**	**3600[b]**	-	-	-	-
Lead	ug/L	**36.4[ab]**	2.8	0.45 U	0.45 U	0.45 U	1.9	2.2	1.0 U	**21.4[ab]**	5.9
Lead (dissolved)	ug/L	-	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	-	-	-	-
Magnesium	ug/L	-	40000	34000	32000	33000	39000	-	-	-	-
Magnesium (dissolved)	ug/L	-	37000	34000	31000	32000	37000	-	-	-	-
Manganese	ug/L	-	**320[b]**	**260[b]**	**290[b]**	**300[b]**	**310[b]**	-	-	-	-
Manganese (dissolved)	ug/L	-	**230[b]**	**240[b]**	**280[b]**	**300[b]**	**260[b]**	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	-	-	-
Mercury (dissolved)	ug/L	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	-	-	-
Nickel	ug/L	-	5.5	2.2	1.5 U	1.5 U	3.3	-	-	-	-
Nickel (dissolved)	ug/L	-	1.5 J	1.5 U	1.5 U	1.5 U	1.5 U	-	-	-	-
Potassium	ug/L	-	6100	7200	8000	8400	9800	-	-	-	-
Potassium (dissolved)	ug/L	-	5700	7200	8100	8400	9800	-	-	-	-
Selenium	ug/L	-	1.3 J	0.89 U	0.89 U	0.89 U	0.89 U	-	-	-	-
Selenium (dissolved)	ug/L	-	0.99 J	0.89 U	0.89 U	0.89 U	0.89 U	-	-	-	-
Silver	ug/L	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-	-	-	-
Silver (dissolved)	ug/L	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-	-	-	-
Sodium	ug/L	-	37000	42000	42000	34000	33000	-	-	-	-
Sodium (dissolved)	ug/L	-	38000	42000	41000	33000	34000	-	-	-	-
Thallium	ug/L	-	**0.20 J[b]**	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-
Thallium (dissolved)	ug/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	-	-
Vanadium	ug/L	-	4.1 J	0.82 U	0.82 U	0.82 U	2.3 J	-	-	-	-
Vanadium (dissolved)	ug/L	-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	-	-	-	-
Zinc	ug/L	-	320	510	360	420	440	-	-	-	-
Zinc (dissolved)	ug/L	-	240	500	360	410	420	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-15**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**
Sample ID:		**GW-38443-121008-KMV-087**	**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**	**GW-38443-121517-KVM-005**	**GW-38443-120108-KMV-050**	**GW-38443-120108-KMV-051**	**GW-38443-120208-KMV-052**	**GW-38443-120208-KMV-053**
Sample Date:		**12/10/2008**	**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**	**12/15/2017**	**12/1/2008**	**12/1/2008**	**12/2/2008**	**12/2/2008**
Sample Depth:		**95-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**50-55 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	73000	71000	67000	66000	65000	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	14 U	14 U	14 U	16 J	14 U	-	-	-	-
Nitrite (as N)	ug/L	-	14 U	14 U	14 U	14 U	14 U	-	-	-	-
Sulfate	ug/L	-	70000	81000	85000	82000	78000	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19
Sample ID:		GW-38443-120208-KMV-054	GW-38443-120208-KMV-055	GW-38443-120308-KMV-056	GW-38443-120308-KMV-057	GW-38443-120408-KMV-058	GW-38443-120408-KMV-059	GW-38443-121508-DD-192	GW-38443-121508-DD-193	GW-38443-121608-DD-194	GW-38443-121608-DD-195	GW-38443-121608-DD-196
Sample Date:		12/2/2008	12/2/2008	12/3/2008	12/3/2008	12/4/2008	12/4/2008	12/15/2008	12/15/2008	12/16/2008	12/16/2008	12/16/2008
Sample Depth:		70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	47-52 ft BGS Duplicate	52-57 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	0.54 J	0.53 J	0.62 J	0.65 J	0.22 J	0.22 J	5.0 U	6.7 U	6.7 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	13 U	13 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U
2-Hexanone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U
Acetone	ug/L	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.9 J[b]	5.2 J[b]	5.1 J[b]
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 UJ	6.7 UJ
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	0.20 J	0.17 J	5.0 U	6.7 U	6.7 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 UJ	6.7 UJ
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	0.20 J	0.25 J	0.49 J	0.47 J	5.0 U	5.0 U	25 U	33 U	33 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Toluene	ug/L	0.17 J	1.0 U	0.19 J	1.0 U	1.0 U	0.24 J	0.82 J	0.90 J	5.0 U	6.7 U	6.7 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U
Vinyl chloride	ug/L	2.4[ab]	2.5[ab]	3.0[ab]	2.9[ab]	3.7[ab]	3.8[ab]	40[ab]	40[ab]	140[ab]	140[ab]	150[ab]
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	13 U	13 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19
Sample ID:		GW-38443-120208-KMV-054	GW-38443-120208-KMV-055	GW-38443-120308-KMV-056	GW-38443-120308-KMV-057	GW-38443-120408-KMV-058	GW-38443-120408-KMV-059	GW-38443-121508-DD-192	GW-38443-121508-DD-193	GW-38443-121608-DD-194	GW-38443-121608-DD-195	GW-38443-121608-DD-196
Sample Date:		12/2/2008	12/2/2008	12/3/2008	12/3/2008	12/4/2008	12/4/2008	12/15/2008	12/15/2008	12/16/2008	12/16/2008	12/16/2008
Sample Depth:		70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	47-52 ft BGS Duplicate	52-57 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	1.7 J	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	10 U	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	5.0 U	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	1.0 U	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**
Sample ID:		**GW-38443-120208-KMV-054**	**GW-38443-120208-KMV-055**	**GW-38443-120308-KMV-056**	**GW-38443-120308-KMV-057**	**GW-38443-120408-KMV-058**	**GW-38443-120408-KMV-059**	**GW-38443-121508-DD-192**	**GW-38443-121508-DD-193**	**GW-38443-121608-DD-194**	**GW-38443-121608-DD-195**	**GW-38443-121608-DD-196**
Sample Date:		**12/2/2008**	**12/2/2008**	**12/3/2008**	**12/3/2008**	**12/4/2008**	**12/4/2008**	**12/15/2008**	**12/15/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**
Sample Depth:		**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**47-52 ft BGS Duplicate**	**52-57 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	0.20 U	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	**10.5[ab]**	**4.6 J[b]**	**21.7[ab]**	**8.1[b]**	**9.6[b]**	**9.9[b]**	**52.6[ab]**	**15.3[ab]**	**19.6[ab]**	**30.4[ab]**	**20.2[ab]**
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	**3.2 J[b]**	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	15.0	4.3	**47.5[ab]**	11.5	**33.4[ab]**	**24.4[ab]**	**142[ab]**	**38.6[ab]**	**49.4[ab]**	**66.0[ab]**	**49.7[ab]**
Lead (dissolved)	ug/L	-	-	-	-	-	-	1.0 U	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-17**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**
Sample ID:		**GW-38443-120208-KMV-054**	**GW-38443-120208-KMV-055**	**GW-38443-120308-KMV-056**	**GW-38443-120308-KMV-057**	**GW-38443-120408-KMV-058**	**GW-38443-120408-KMV-059**	**GW-38443-121508-DD-192**	**GW-38443-121508-DD-193**	**GW-38443-121608-DD-194**	**GW-38443-121608-DD-195**	**GW-38443-121608-DD-196**
Sample Date:		**12/2/2008**	**12/2/2008**	**12/3/2008**	**12/3/2008**	**12/4/2008**	**12/4/2008**	**12/15/2008**	**12/15/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**
Sample Depth:		**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**47-52 ft BGS Duplicate**	**52-57 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-21	VAS-21
Sample ID:		GW-38443-121608-DD-197	GW-38443-121608-DD-198	GW-38443-121608-DD-199	GW-38443-121608-DD-200	GW-38443-121608-DD-201	GW-38443-121608-DD-202	GW-38443-121608-DD-203	GW-38443-121608-DD-204	GW-38443-102908-KMV-002	GW-38443-103008-KMV-003	GW-38443-103008-KMV-004
Sample Date:		12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	10/29/2008	10/30/2008	10/30/2008
Sample Depth:		57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	44-49 ft BGS	49-54 ft BGS	54-59 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.5 J	1.4 J	1.8	2.1	3.0[b]	2.3	1.2	0.93 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	6.7 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	0.32 J[b]	0.25 J[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	33 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	ug/L	33 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	33 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	33 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	3.3 U	0.70 J	0.38 J	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	31[b]	30[b]	19[b]	19[b]	12[b]	7.7[b]	3.4	2.9	0.29 J	0.43 J	1.0 U
cis-1,3-Dichloropropene	ug/L	3.3 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	ug/L	3.3 U	2.0 U	0.26 J	0.20 J	0.17 J	0.20 J	0.18 J	0.20 J	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	3.3 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	33 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	17 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	3.3 U	0.61 J	0.67 J	0.53 J	0.44 J	0.53 J	0.47 J	0.50 J	1.0 U	1.0 U	0.22 J
trans-1,2-Dichloroethene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2[b]	0.53 J[b]	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	3.3 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	88[ab]	65 J[ab]	28[ab]	24[ab]	12[ab]	12[ab]	12[ab]	11[ab]	1.4[b]	1.8[b]	0.76 J[b]
Xylenes (total)	ug/L	6.7 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	1.0 U	-	-	-	-	-	1.0 UJ	1.0 U	1.0 U	1.0 U
2,4,5-Trichlorophenol	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
2,4-Dimethylphenol	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-21	VAS-21
Sample ID:		GW-38443-121608-DD-197	GW-38443-121608-DD-198	GW-38443-121608-DD-199	GW-38443-121608-DD-200	GW-38443-121608-DD-201	GW-38443-121608-DD-202	GW-38443-121608-DD-203	GW-38443-121608-DD-204	GW-38443-102908-KMV-002	GW-38443-103008-KMV-003	GW-38443-103008-KMV-004
Sample Date:		12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	10/29/2008	10/30/2008	10/30/2008
Sample Depth:		57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	44-49 ft BGS	49-54 ft BGS	54-59 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
2-Chlorophenol	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
2-Methylnaphthalene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
2-Methylphenol	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
2-Nitroaniline	ug/L	-	2.0 U	-	-	-	-	-	2.0 UJ	2.0 U	2.0 U	2.0 U
2-Nitrophenol	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
3-Nitroaniline	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
4-Chloroaniline	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
4-Methylphenol	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
4-Nitroaniline	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
4-Nitrophenol	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Acenaphthene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Acenaphthylene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Acetophenone	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Anthracene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Atrazine	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Benzaldehyde	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Benzo(a)anthracene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Benzo(a)pyrene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Benzo(b)fluoranthene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Benzo(g,h,i)perylene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Benzo(k)fluoranthene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
Butyl benzylphthalate (BBP)	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Caprolactam	ug/L	-	5.0 UJ	-	-	-	-	-	5.0 UJ	5.0 U	5.0 U	5.0 U
Carbazole	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Chrysene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Dibenz(a,h)anthracene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Dibenzofuran	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Diethyl phthalate	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Dimethyl phthalate	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Fluoranthene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Fluorene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Hexachlorobenzene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Hexachlorobutadiene	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Hexachlorocyclopentadiene	ug/L	-	10 U	-	-	-	-	-	10 U	10 U	R	R
Hexachloroethane	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Isophorone	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Naphthalene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Nitrobenzene	ug/L	-	1.0 U	-	-	-	-	-	1.0 UJ	1.0 U	1.0 U	1.0 U
N-Nitrosodi-n-propylamine	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Pentachlorophenol	ug/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	5.0 U	5.0 U
Phenanthrene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Phenol	ug/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-21**	**VAS-21**
Sample ID:		**GW-38443-121608-DD-197**	**GW-38443-121608-DD-198**	**GW-38443-121608-DD-199**	**GW-38443-121608-DD-200**	**GW-38443-121608-DD-201**	**GW-38443-121608-DD-202**	**GW-38443-121608-DD-203**	**GW-38443-121608-DD-204**	**GW-38443-102908-KMV-002**	**GW-38443-103008-KMV-003**	**GW-38443-103008-KMV-004**
Sample Date:		**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**10/29/2008**	**10/30/2008**	**10/30/2008**
Sample Depth:		**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**44-49 ft BGS**	**49-54 ft BGS**	**54-59 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	25.4[ab]	22.0[ab]	12.0[ab]	15.3[ab]	37.6[ab]	29.5[ab]	21.7[ab]	22.2[ab]	10.0[b]	0.55 J[b]	0.77 J[b]
Arsenic (dissolved)	ug/L	3.0 J[b]	-	-	-	-	4.4 J[b]	-	-	-	-	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	62.2[ab]	46.5[ab]	34.3[ab]	31.7[ab]	80.8[ab]	68.2[ab]	74.4[ab]	66.1[ab]	10.1	0.21 J	1.0 U
Lead (dissolved)	ug/L	1.0 U	-	-	-	-	1.0 U	-	-	-	-	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-21**	**VAS-21**	**VAS-21**
Sample ID:		**GW-38443-121608-DD-197**	**GW-38443-121608-DD-198**	**GW-38443-121608-DD-199**	**GW-38443-121608-DD-200**	**GW-38443-121608-DD-201**	**GW-38443-121608-DD-202**	**GW-38443-121608-DD-203**	**GW-38443-121608-DD-204**	**GW-38443-102908-KMV-002**	**GW-38443-103008-KMV-003**	**GW-38443-103008-KMV-004**
Sample Date:		**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**10/29/2008**	**10/30/2008**	**10/30/2008**
Sample Depth:		**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**44-49 ft BGS**	**49-54 ft BGS**	**54-59 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21B	VAS-21B	VAS-21B
Sample ID:		GW-38443-103008-KMV-005	GW-38443-103108-KMV-006	GW-38443-103108-KMV-007	GW-38443-110308-KMV-008	GW-38443-110308-KMV-009	GW-38443-110408-KMV-010	GW-38443-110408-KMV-011	GW-38443-110408-KMV-012	GW-38443-060209-DR-001	GW-38443-060209-DR-002	GW-38443-060309-DR-004
Sample Date:		10/30/2008	10/31/2008	10/31/2008	11/3/2008	11/3/2008	11/4/2008	11/4/2008	11/4/2008	6/2/2009	6/2/2009	6/3/2009
Sample Depth:		59-64 ft BGS	64-69 ft BGS	69-74 ft BGS	74-79 ft BGS	79-84 ft BGS	84-89 ft BGS	89-94 ft BGS	94-99 ft BGS	87-92 ft BGS	92-97 ft BGS	97-102 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,1,2,2-Tetrachloroethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,1,2-Trichloroethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.9 U	2.0 U	2.9 U	2.0 U	2.0 U	20 U	3.3 U	6.7 U	40 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 U	33 U	200 U
2-Hexanone	ug/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 U	33 U	200 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 UJ	33 UJ	200 UJ
Acetone	ug/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 U	33 U	200 U
Benzene	ug/L	1.0 U	2.0[b]	11[ab]	3.7[b]	1.4 U	1.0 U	1.7[b]	300[ab]	40[ab]	95[ab]	580[ab]
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Bromoform	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Bromomethane (Methyl bromide)	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Carbon disulfide	ug/L	0.49 J	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Carbon tetrachloride	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Chloroethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
cis-1,2-Dichloroethene	ug/L	0.73 J	9.9[b]	42[b]	12[b]	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
cis-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 UJ	1.0 UJ	1.0 UJ	10 UJ	1.7 U	3.3 U	20 U
Cyclohexane	ug/L	1.0 U	0.24 J	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 UJ	0.93 J	1.7 J	20 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 U	1.0 UJ	1.0 UJ	10 UJ	1.7 U	3.3 U	20 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 UJ	1.7 U	3.3 U	20 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 UJ	33 UJ	200 UJ
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 U	1.0 UJ	1.0 UJ	10 UJ	1.1 J	1.9 J	20 UJ
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	7.2 U	5.0 U	7.2 U	5.0 U	5.0 U	50 U	8.4 U	17 U	100 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 U	1.0 UJ	1.0 UJ	14 UJ	1.7 U	3.3 U	20 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 UJ	1.0 UJ	1.0 UJ	10 UJ	0.96 J	3.3 U	20 U
Toluene	ug/L	1.0 U	1.2	1.2 J	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.4 J	0.93 J	20 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
trans-1,3-Dichloropropene	ug/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 UJ	1.0 UJ	1.0 UJ	10 UJ	1.7 U	3.3 U	20 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Trichlorofluoromethane (CFC-11)	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U	3.3 U	20 U
Vinyl chloride	ug/L	1.8[b]	7.1[ab]	37[ab]	12[ab]	35[ab]	38[ab]	0.32 J[b]	10 U	5.0[ab]	5.2[ab]	20 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.9 U	2.0 U	2.9 U	2.0 U	2.0 U	20 UJ	3.3 U	6.7 U	40 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
2,4,5-Trichlorophenol	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
2,4,6-Trichlorophenol	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
2,4-Dichlorophenol	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
2,4-Dimethylphenol	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21B	VAS-21B	VAS-21B
Sample ID:		GW-38443-103008-KMV-005	GW-38443-103108-KMV-006	GW-38443-103108-KMV-007	GW-38443-110308-KMV-008	GW-38443-110308-KMV-009	GW-38443-110408-KMV-010	GW-38443-110408-KMV-011	GW-38443-110408-KMV-012	GW-38443-060209-DR-001	GW-38443-060209-DR-002	GW-38443-060309-DR-004
Sample Date:		10/30/2008	10/31/2008	10/31/2008	11/3/2008	11/3/2008	11/4/2008	11/4/2008	11/4/2008	6/2/2009	6/2/2009	6/3/2009
Sample Depth:		59-64 ft BGS	64-69 ft BGS	69-74 ft BGS	74-79 ft BGS	79-84 ft BGS	84-89 ft BGS	89-94 ft BGS	94-99 ft BGS	87-92 ft BGS	92-97 ft BGS	97-102 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
2,4-Dinitrotoluene	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
2,6-Dinitrotoluene	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
2-Chloronaphthalene	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
2-Chlorophenol	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
2-Methylnaphthalene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
2-Methylphenol	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
2-Nitroaniline	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
2-Nitrophenol	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
3-Nitroaniline	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
4-Bromophenyl phenyl ether	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
4-Chloro-3-methylphenol	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
4-Chloroaniline	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
4-Chlorophenyl phenyl ether	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
4-Methylphenol	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
4-Nitroaniline	ug/L	2.0 U	2.0 U	-	2.0 U	-	2.0 U	-	2.0 U	-	-	-
4-Nitrophenol	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
Acenaphthene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Acenaphthylene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Acetophenone	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Anthracene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Atrazine	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Benzaldehyde	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Benzo(a)anthracene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Benzo(a)pyrene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Benzo(b)fluoranthene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Benzo(g,h,i)perylene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Benzo(k)fluoranthene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
bis(2-Chloroethoxy)methane	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
bis(2-Chloroethyl)ether	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	2.0 U	2.0 U	-	2.0 U	-	3.2 U	-	2.3 U	-	-	-
Butyl benzylphthalate (BBP)	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0	-	1.0 U	-	-	-
Caprolactam	ug/L	5.0 U	5.0 U	-	5.0 UJ	-	5.0 UJ	-	5.0 UJ	-	-	-
Carbazole	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Chrysene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Dibenz(a,h)anthracene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Dibenzofuran	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Diethyl phthalate	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Dimethyl phthalate	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Di-n-butylphthalate (DBP)	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Fluoranthene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Fluorene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Hexachlorobenzene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Hexachlorobutadiene	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Hexachlorocyclopentadiene	ug/L	R	R	-	10 U	-	10 U	-	10 U	-	-	-
Hexachloroethane	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Isophorone	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Naphthalene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Nitrobenzene	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
N-Nitrosodi-n-propylamine	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
N-Nitrosodiphenylamine	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-
Pentachlorophenol	ug/L	5.0 U	5.0 U	-	5.0 U	-	5.0 U	-	5.0 U	-	-	-
Phenanthrene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Phenol	ug/L	1.0 U	1.0 U	-	1.0 U	-	1.0 U	-	1.0 U	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21B**	**VAS-21B**	**VAS-21B**
Sample ID:		**GW-38443-103008-KMV-005**	**GW-38443-103108-KMV-006**	**GW-38443-103108-KMV-007**	**GW-38443-110308-KMV-008**	**GW-38443-110308-KMV-009**	**GW-38443-110408-KMV-010**	**GW-38443-110408-KMV-011**	**GW-38443-110408-KMV-012**	**GW-38443-060209-DR-001**	**GW-38443-060209-DR-002**	**GW-38443-060309-DR-004**
Sample Date:		**10/30/2008**	**10/31/2008**	**10/31/2008**	**11/3/2008**	**11/3/2008**	**11/4/2008**	**11/4/2008**	**11/4/2008**	**6/2/2009**	**6/2/2009**	**6/3/2009**
Sample Depth:		**59-64 ft BGS**	**64-69 ft BGS**	**69-74 ft BGS**	**74-79 ft BGS**	**79-84 ft BGS**	**84-89 ft BGS**	**89-94 ft BGS**	**94-99 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**97-102 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	0.20 U	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	0.82 J[b]	0.58 J[b]	0.97 J[b]	2.2 J[b]	4.0 J[b]	6.3[b]	1.4 J[b]	6.4[b]	15.8[ab]	8.2[b]	70.1 J[ab]
Arsenic (dissolved)	ug/L	-	-	-	-	-	-	-	-	1.2 J[b]	1.2 J[b]	6.8[b]
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	0.25 J	1.0 U	1.0 U	0.51 J	3.9	7.4	1.4	6.4	29.6[ab]	13.8	147 J[ab]
Lead (dissolved)	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21B**	**VAS-21B**	**VAS-21B**
Sample ID:		**GW-38443-103008-KMV-005**	**GW-38443-103108-KMV-006**	**GW-38443-103108-KMV-007**	**GW-38443-110308-KMV-008**	**GW-38443-110308-KMV-009**	**GW-38443-110408-KMV-010**	**GW-38443-110408-KMV-011**	**GW-38443-110408-KMV-012**	**GW-38443-060209-DR-001**	**GW-38443-060209-DR-002**	**GW-38443-060309-DR-004**
Sample Date:		**10/30/2008**	**10/31/2008**	**10/31/2008**	**11/3/2008**	**11/3/2008**	**11/4/2008**	**11/4/2008**	**11/4/2008**	**6/2/2009**	**6/2/2009**	**6/3/2009**
Sample Depth:		**59-64 ft BGS**	**64-69 ft BGS**	**69-74 ft BGS**	**74-79 ft BGS**	**79-84 ft BGS**	**84-89 ft BGS**	**89-94 ft BGS**	**94-99 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**97-102 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B
Sample ID:		GW-38443-060309-DR-005	GW-38443-060309-DR-006	GW-38443-060309-DR-007	GW-38443-060309-DR-008	GW-38443-060409-DR-009	GW-38443-060409-DR-010	GW-38443-060409-DR-012	GW-38443-060409-DR-013	GW-38443-060409-DR-014	GW-38443-060409-DR-015	GW-38443-060509-DR-017
Sample Date:		6/3/2009	6/3/2009	6/3/2009	6/3/2009	6/4/2009	6/4/2009	6/4/2009	6/4/2009	6/4/2009	6/4/2009	6/5/2009
Sample Depth:		97-102 ft BGS Duplicate	102-107 ft BGS	107-112 ft BGS	112-117 ft BGS	117-122 ft BGS	122-127 ft BGS	127-132 ft BGS	132-137 ft BGS	137-142 ft BGS	142-147 ft BGS	147-152 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,1,2,2-Tetrachloroethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,1,2-Trichloroethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,1-Dichloroethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,1-Dichloroethene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2,4-Trichlorobenzene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	40 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.9 U	3.3 U	3.3 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2-Dichlorobenzene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2-Dichloroethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2-Dichloropropane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,3-Dichlorobenzene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
1,4-Dichlorobenzene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	200 U	200 U	1.8 J	10 U	10 U	10 U	10 U	10 U	14 U	17 U	17 U
2-Hexanone	ug/L	200 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	14 U	17 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	200 UJ	200 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	14 U	17 U	17 U
Acetone	ug/L	200 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U	14 U	17 U	17 U
Benzene	ug/L	550[ab]	540[ab]	4.8[b]	3.3[b]	1.3 U	1.1 U	1.9 U	1.6 U	1.4 U	1.7 U	1.5 J[b]
Bromodichloromethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Bromoform	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Bromomethane (Methyl bromide)	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Carbon disulfide	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Carbon tetrachloride	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Chlorobenzene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Chloroethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Chloroform (Trichloromethane)	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Chloromethane (Methyl chloride)	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
cis-1,2-Dichloroethene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
cis-1,3-Dichloropropene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Cyclohexane	ug/L	20 UJ	20 UJ	0.58 J	0.58 J	1.0 U	1.0 U	0.18 J	0.14 J	0.17 J	1.7 U	1.7 U
Dibromochloromethane	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Dichlorodifluoromethane (CFC-12)	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Ethylbenzene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Isopropyl benzene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	200 UJ	200 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	14 U	17 U	17 U
Methyl cyclohexane	ug/L	20 UJ	20 UJ	0.67 J	0.65 J	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Methyl tert butyl ether (MTBE)	ug/L	100 U	100 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	7.2 U	8.4 U	8.4 U
Methylene chloride	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Tetrachloroethene	ug/L	20 U	20 U	0.33 J	0.55 J	0.37 J	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 UJ
Toluene	ug/L	20 U	20 U	1.4	1.4	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	0.91 J
trans-1,2-Dichloroethene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
trans-1,3-Dichloropropene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Trichloroethene	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Trichlorofluoromethane (CFC-11)	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Trifluorotrichloroethane (CFC-113)	ug/L	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.4 U	1.7 U	1.7 U
Vinyl chloride	ug/L	20 U	20 U	1.0 U	1.0 U	6.7 U	5.5 U	15[ab]	19[ab]	46[ab]	60[ab]	48[ab]
Xylenes (total)	ug/L	40 U	40 U	2.0 U	0.49 J	2.0 U	2.0 U	2.0 U	2.0 U	2.9 U	3.3 U	3.3 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B
Sample ID:		GW-38443-060309-DR-005	GW-38443-060309-DR-006	GW-38443-060309-DR-007	GW-38443-060309-DR-008	GW-38443-060409-DR-009	GW-38443-060409-DR-010	GW-38443-060409-DR-012	GW-38443-060409-DR-013	GW-38443-060409-DR-014	GW-38443-060409-DR-015	GW-38443-060509-DR-017
Sample Date:		6/3/2009	6/3/2009	6/3/2009	6/3/2009	6/4/2009	6/4/2009	6/4/2009	6/4/2009	6/4/2009	6/4/2009	6/5/2009
Sample Depth:		97-102 ft BGS Duplicate	102-107 ft BGS	107-112 ft BGS	112-117 ft BGS	117-122 ft BGS	122-127 ft BGS	127-132 ft BGS	132-137 ft BGS	137-142 ft BGS	142-147 ft BGS	147-152 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**
Sample ID:		**GW-38443-060309-DR-005**	**GW-38443-060309-DR-006**	**GW-38443-060309-DR-007**	**GW-38443-060309-DR-008**	**GW-38443-060409-DR-009**	**GW-38443-060409-DR-010**	**GW-38443-060409-DR-012**	**GW-38443-060409-DR-013**	**GW-38443-060409-DR-014**	**GW-38443-060409-DR-015**	**GW-38443-060509-DR-017**
Sample Date:		**6/3/2009**	**6/3/2009**	**6/3/2009**	**6/3/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/5/2009**
Sample Depth:		**97-102 ft BGS Duplicate**	**102-107 ft BGS**	**107-112 ft BGS**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**	**137-142 ft BGS**	**142-147 ft BGS**	**147-152 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	39.3 J[ab]	31.1[ab]	125[ab]	58.1[ab]	1.3 J[b]	0.84 J[b]	30.7[ab]	14.7[ab]	58.7[ab]	25.1[ab]	153[ab]
Arsenic (dissolved)	ug/L	6.3[b]	5.8[b]	1.8 J[b]	1.2 J[b]	1.2 J[b]	0.92 J[b]	0.74 J[b]	0.55 J[b]	1.4 J[b]	1.5 J[b]	3.1 J[b]
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	92.9 J[ab]	75.4 J[ab]	235 J[ab]	116 J[ab]	0.38 J	0.54 J	68.0[ab]	35.4[ab]	143[ab]	59.2[ab]	161[ab]
Lead (dissolved)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	0.18 J	1.0 U
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**
Sample ID:		**GW-38443-060309-DR-005**	**GW-38443-060309-DR-006**	**GW-38443-060309-DR-007**	**GW-38443-060309-DR-008**	**GW-38443-060409-DR-009**	**GW-38443-060409-DR-010**	**GW-38443-060409-DR-012**	**GW-38443-060409-DR-013**	**GW-38443-060409-DR-014**	**GW-38443-060409-DR-015**	**GW-38443-060509-DR-017**
Sample Date:		**6/3/2009**	**6/3/2009**	**6/3/2009**	**6/3/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/5/2009**
Sample Depth:		**97-102 ft BGS Duplicate**	**102-107 ft BGS**	**107-112 ft BGS**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**	**137-142 ft BGS**	**142-147 ft BGS**	**147-152 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-22
Sample ID:		GW-38443-060509-DR-018	GW-38443-060509-DR-019	GW-38443-060509-DR-020	GW-38443-060509-DR-021	GW-38443-060509-DR-022	GW-38443-060509-DR-023	GW-38443-060609-DR-024	GW-38443-060609-DR-025	GW-38443-060609-DR-026	GW-38443-060609-DR-027	GW-38443-121808-DD-210
Sample Date:		6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/6/2009	6/6/2009	6/6/2009	6/6/2009	12/18/2008
Sample Depth:		147-152 ft BGS Duplicate	152-157 ft BGS	157-162 ft BGS	162-167 ft BGS	167-172 ft BGS	172-177 ft BGS	177-182 ft BGS	182-187 ft BGS	187-192 ft BGS	192-197 ft BGS	52-57 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	0.45 J
1,1-Dichloroethene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	3.3 U	3.3 U	2.9 U	2.0 U	2.9 U	3.3 U	3.3 U	3.3 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	17 U	17 U	14 U	0.66 J	14 U	1.4 J	1.0 J	1.2 J	10 U	10 U	10 U
2-Hexanone	ug/L	17 U	17 U	14 U	10 U	14 U	17 U	17 U	17 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	17 U	17 U	14 U	10 U	0.57 J	2.0 J	0.71 J	0.62 J	10 U	10 U	10 U
Acetone	ug/L	17 U	17 U	14 U	10 U	14 U	17 U	17 U	17 U	10 U	10 U	10 U
Benzene	ug/L	1.5 J[b]	1.2 J[b]	0.78 J[b]	0.76 J[b]	0.95 J[b]	1.3 J[b]	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 UJ	1.7 UJ	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	0.98 J
cis-1,3-Dichloropropene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane	ug/L	1.7 U	1.7 U	0.21 J	0.35 J	1.4 U	1.7 U	1.7 U	1.7 U	0.17 J	1.0 U	0.17 J
Dibromochloromethane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.7 U	1.7 U	1.4 U	0.22 J	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	17 U	17 U	14 U	10 U	14 U	17 U	17 U	17 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	8.4 U	8.4 U	7.2 U	5.0 U	7.2 U	8.4 U	8.4 U	8.4 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.7 UJ	1.7 UJ	1.4 UJ	1.0 UJ	1.4 UJ	1.7 UJ	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.87 J	0.70 J	0.87 J	1.3	0.83 J	1.3 J	0.85 J	0.82 J	0.83 J	0.69 J	1.4
trans-1,2-Dichloroethene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	ug/L	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	47[ab]	51[ab]	39[ab]	38[ab]	42[ab]	42[ab]	45[ab]	45[ab]	30[ab]	29[ab]	0.71 J[b]
Xylenes (total)	ug/L	3.3 U	3.3 U	2.9 U	0.84 J	2.9 U	3.3 U	3.3 U	3.3 U	2.0 U	2.0 U	2.0 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-21B	VAS-22
Sample ID:		GW-38443-060509-DR-018	GW-38443-060509-DR-019	GW-38443-060509-DR-020	GW-38443-060509-DR-021	GW-38443-060509-DR-022	GW-38443-060509-DR-023	GW-38443-060609-DR-024	GW-38443-060609-DR-025	GW-38443-060609-DR-026	GW-38443-060609-DR-027	GW-38443-121808-DD-210
Sample Date:		6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/5/2009	6/6/2009	6/6/2009	6/6/2009	6/6/2009	12/18/2008
Sample Depth:		147-152 ft BGS Duplicate	152-157 ft BGS	157-162 ft BGS	162-167 ft BGS	167-172 ft BGS	172-177 ft BGS	177-182 ft BGS	182-187 ft BGS	187-192 ft BGS	192-197 ft BGS	52-57 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	2.0 U
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	10 U
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	5.0 U
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	1.0 U

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-22**
Sample ID:		**GW-38443-060509-DR-018**	**GW-38443-060509-DR-019**	**GW-38443-060509-DR-020**	**GW-38443-060509-DR-021**	**GW-38443-060509-DR-022**	**GW-38443-060509-DR-023**	**GW-38443-060609-DR-024**	**GW-38443-060609-DR-025**	**GW-38443-060609-DR-026**	**GW-38443-060609-DR-027**	**GW-38443-121808-DD-210**
Sample Date:		**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/6/2009**	**6/6/2009**	**6/6/2009**	**6/6/2009**	**12/18/2008**
Sample Depth:		**147-152 ft BGS Duplicate**	**152-157 ft BGS**	**157-162 ft BGS**	**162-167 ft BGS**	**167-172 ft BGS**	**172-177 ft BGS**	**177-182 ft BGS**	**182-187 ft BGS**	**187-192 ft BGS**	**192-197 ft BGS**	**52-57 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	0.20 U
Metals												
Aluminum	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony	ug/L	-	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Arsenic	ug/L	141[ab]	54.5[ab]	183[ab]	373[ab]	37.0[ab]	52.2[ab]	13.0[ab]	11.5[ab]	10.0[b]	6.8[b]	49.5[ab]
Arsenic (dissolved)	ug/L	3.1 J[b]	4.2 J[b]	4.6 J[b]	5.3[b]	3.8 J[b]	3.4 J[b]	3.3 J[b]	3.2 J[b]	3.2 J[b]	2.7 J[b]	-
Barium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper	ug/L	-	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron	ug/L	-	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Lead	ug/L	148[ab]	64.3[ab]	82.0[ab]	178[ab]	23.1[ab]	34.9[ab]	5.8	5.4	6.8	3.8	110[ab]
Lead (dissolved)	ug/L	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	-
Magnesium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver	ug/L	-	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium	ug/L	-	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc	ug/L	-	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	ug/L	-	-	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-22**
Sample ID:		**GW-38443-060509-DR-018**	**GW-38443-060509-DR-019**	**GW-38443-060509-DR-020**	**GW-38443-060509-DR-021**	**GW-38443-060509-DR-022**	**GW-38443-060509-DR-023**	**GW-38443-060609-DR-024**	**GW-38443-060609-DR-025**	**GW-38443-060609-DR-026**	**GW-38443-060609-DR-027**	**GW-38443-121808-DD-210**
Sample Date:		**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/6/2009**	**6/6/2009**	**6/6/2009**	**6/6/2009**	**12/18/2008**
Sample Depth:		**147-152 ft BGS Duplicate**	**152-157 ft BGS**	**157-162 ft BGS**	**162-167 ft BGS**	**167-172 ft BGS**	**172-177 ft BGS**	**177-182 ft BGS**	**182-187 ft BGS**	**187-192 ft BGS**	**192-197 ft BGS**	**52-57 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-31
Sample ID:		GW-38443-092518-JC-183	GW-38443-092618-JC-184	GW-38443-092618-JC-185	GW-38443-092718-JC-186	GW-38443-092718-JC-187	GW-38443-092718-JC-188	GW-38443-092718-JC-189	GW-38443-100218-JC-191	GW-38443-100218-JC-192	GW-38443-100318-JC-193	GW-38443-012218-KVM-047
Sample Date:		9/25/2018	9/26/2018	9/26/2018	9/27/2018	9/27/2018	9/27/2018	9/27/2018	10/2/2018	10/2/2018	10/3/2018	1/22/2018
Sample Depth:		60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	90-100 ft BGS Duplicate	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	60-70 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.34 U
1,1-Dichloroethane	ug/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.45 J
1,1-Dichloroethene	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.26 U	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.26 U
1,2-Dichloroethane	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U
1,2-Dichloropropane	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.0 U
2-Hexanone	ug/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.71 U
Acetone	ug/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	1.8 U
Benzene	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.28 U
Bromodichloromethane	ug/L	0.50 J[b]	0.17 U	0.17 U	0.17 U	0.17 U	0.70 J[b]	0.17 U	0.17 U	0.52 J[b]	0.17 U	0.30 U
Bromoform	ug/L	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	0.42 U	0.42 U	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.31 J	0.28 U	0.28 U	0.28 U	0.28 U	0.34 U
Carbon tetrachloride	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.35 U
Chlorobenzene	ug/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.32 U
Chloroethane	ug/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.41 U
Chloroform (Trichloromethane)	ug/L	1.3[b]	0.59 J[b]	0.26 J[b]	0.13 U	0.13 J	1.5[b]	0.20 J	0.16 J	1.6[b]	0.82 J[b]	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.6
cis-1,3-Dichloropropene	ug/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.26 U
Cyclohexane	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.44 U
Dibromochloromethane	ug/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.57 J	0.39 U	0.39 U	0.39 U	0.39 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.50 U
Ethylbenzene	ug/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.26 U
Isopropyl benzene	ug/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.21 U
m&p-Xylenes	ug/L	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.20 U	0.080 U	0.24 U
Methyl acetate	ug/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U
Methyl cyclohexane	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.27 U
Methylene chloride	ug/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	0.53 U
o-Xylene	ug/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.28 U
Styrene	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.23 U
Tetrachloroethene	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19 J	0.15 U	0.15 U	0.30 U
Toluene	ug/L	1.6	2.7	0.14 U	0.78 J	0.83 J	1.8	0.23 J	0.54 J	2.0	0.49 J	0.23 U
trans-1,2-Dichloroethene	ug/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.29 U
trans-1,3-Dichloropropene	ug/L	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.31 U
Trichloroethene	ug/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.42 J[b]
Trichlorofluoromethane (CFC-11)	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.50 U
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	ug/L	6.3[ab]	3.4[ab]	4.1[ab]	2.7[ab]	3.2[ab]	8.1[ab]	2.0[b]	4.0[ab]	6.5[ab]	5.5[ab]	0.45 U
Xylenes (total)	ug/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.21 U	0.20 U	0.15 U	0.24 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-31
Sample ID:		GW-38443-092518-JC-183	GW-38443-092618-JC-184	GW-38443-092618-JC-185	GW-38443-092718-JC-186	GW-38443-092718-JC-187	GW-38443-092718-JC-188	GW-38443-092718-JC-189	GW-38443-100218-JC-191	GW-38443-100218-JC-192	GW-38443-100318-JC-193	GW-38443-012218-KVM-047
Sample Date:		9/25/2018	9/26/2018	9/26/2018	9/27/2018	9/27/2018	9/27/2018	9/27/2018	10/2/2018	10/2/2018	10/3/2018	1/22/2018
Sample Depth:		60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	90-100 ft BGS Duplicate	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	60-70 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-31
Sample ID:		GW-38443-092518-JC-183	GW-38443-092618-JC-184	GW-38443-092618-JC-185	GW-38443-092718-JC-186	GW-38443-092718-JC-187	GW-38443-092718-JC-188	GW-38443-092718-JC-189	GW-38443-100218-JC-191	GW-38443-100218-JC-192	GW-38443-100318-JC-193	GW-38443-012218-KVM-047
Sample Date:		9/25/2018	9/26/2018	9/26/2018	9/27/2018	9/27/2018	9/27/2018	9/27/2018	10/2/2018	10/2/2018	10/3/2018	1/22/2018
Sample Depth:		60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	90-100 ft BGS Duplicate	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	60-70 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	120	75	87	50	62	**7600[b]**	880	850	**5400[b]**	**13000[b]**	54
Aluminum (dissolved)	ug/L	120	34 U	34 U	34 U	34 U	34 U	34 U	88	40 J	700	34 U
Antimony	ug/L	**0.89 J[b]**	0.77 J	0.57 U	0.57 U	0.57 U	**1.1 J[b]**	0.57 U	0.57 U	0.76 J	0.64 J	0.57 U
Antimony (dissolved)	ug/L	**0.88 J[b]**	0.76 J	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	ug/L	**2.6 J[b]**	**1.8 J[b]**	**1.3 J[b]**	**1.3 J[b]**	**1.3 J[b]**	**6.2[b]**	0.75 U	**1.1 J[b]**	**2.4 J[b]**	**7.8[b]**	**1.0 J[b]**
Arsenic (dissolved)	ug/L	**2.6 J[b]**	**1.6 J[b]**	**1.2 J[b]**	**1.2 J[b]**	**1.2 J[b]**	0.75 U	0.75 U	0.75 U	0.75 U	**0.97 J[b]**	0.75 U
Barium	ug/L	**570[b]**	**550[b]**	**450[b]**	**490[b]**	**540[b]**	**620[b]**	**670[b]**	310	270	320	150
Barium (dissolved)	ug/L	**590[b]**	**530[b]**	**470[b]**	**500[b]**	**510[b]**	**550[b]**	**670[b]**	300	210	250	150
Beryllium	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.50 J	0.31 U	0.31 U	0.70 U	0.58 J	0.31 U
Beryllium (dissolved)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.23 J	0.21 U
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	ug/L	91000	88000	87000	63000	67000	140000	59000	60000	90000	150000	120000
Calcium (dissolved)	ug/L	94000	83000	87000	62000	63000	49000	54000	54000	57000	63000	120000
Chromium	ug/L	0.98 U	2.7	0.99 J	0.98 U	0.98 U	30	2.5	3.4	40	19	0.98 U
Chromium (dissolved)	ug/L	0.98 U	1.2 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	1.1 J	0.98 U
Cobalt	ug/L	0.34 J	0.20 J	0.21 J	0.19 U	0.19 U	**5.9[b]**	**0.71 J[b]**	**1.0[b]**	**4.0[b]**	**9.4[b]**	0.34 J
Cobalt (dissolved)	ug/L	0.32 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.26 J	0.21 J	**0.63 J[b]**	0.33 J
Copper	ug/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	26	3.2	8.7	20	27	1.7 U
Copper (dissolved)	ug/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.1	1.7 U
Iron	ug/L	**1500[b]**	**1500[b]**	**2300[b]**	**3400[b]**	**3900[b]**	**21000[b]**	**2800[b]**	**9000[b]**	**17000[b]**	**24000[b]**	480
Iron (dissolved)	ug/L	**1600[b]**	1300	**2000[b]**	**2400[b]**	**2400[b]**	1100	1300	**2800[b]**	**1500[b]**	**3200[b]**	320
Lead	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	10	1.5	3.0	6.4	14	0.45 U
Lead (dissolved)	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.46 J	0.45 U	0.88 J	0.45 U
Magnesium	ug/L	50000	49000	44000	44000	46000	67000	41000	41000	51000	74000	35000
Magnesium (dissolved)	ug/L	51000	46000	45000	44000	44000	37000	40000	40000	40000	41000	36000
Manganese	ug/L	**120[b]**	**100[b]**	**88[b]**	**65[b]**	**72[b]**	**630[b]**	**210[b]**	**300[b]**	**500[b]**	**850[b]**	**320[b]**
Manganese (dissolved)	ug/L	**120[b]**	**93[b]**	**83[b]**	**60[b]**	**59[b]**	**150[b]**	**180[b]**	**250[b]**	**220[b]**	**270[b]**	**330[b]**
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.13 J[b]**	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	17	2.0	4.0	13	24	1.5 U
Nickel (dissolved)	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	2.3	1.5 U
Potassium	ug/L	11000	10000	9100	11000	12000	15000	15000	15000	15000	16000	3500
Potassium (dissolved)	ug/L	12000	9800	9300	11000	11000	13000	15000	15000	14000	14000	3600
Selenium	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	46000	41000	42000	42000	45000	46000	51000	52000	52000	57000	65000
Sodium (dissolved)	ug/L	47000	39000	43000	44000	43000	47000	51000	54000	52000	59000	69000
Thallium	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.22 J[b]**	0.20 U	0.20 U	0.20 U	**0.42 J[b]**	0.20 U
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**17[b]**	2.0 J	1.8 J	**13[b]**	**24[b]**	0.82 U
Vanadium (dissolved)	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.90 J	0.82 U
Zinc	ug/L	**860[b]**	**1500[b]**	**820[b]**	**640[b]**	**700[b]**	230	130	370	310 U	330	170
Zinc (dissolved)	ug/L	**880[b]**	**1300[b]**	**880[b]**	580	590	120	120	370	190 U	250	190
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-22b**	**VAS-31**
Sample ID:		**GW-38443-092518-JC-183**	**GW-38443-092618-JC-184**	**GW-38443-092618-JC-185**	**GW-38443-092718-JC-186**	**GW-38443-092718-JC-187**	**GW-38443-092718-JC-188**	**GW-38443-092718-JC-189**	**GW-38443-100218-JC-191**	**GW-38443-100218-JC-192**	**GW-38443-100318-JC-193**	**GW-38443-012218-KVM-047**
Sample Date:		**9/25/2018**	**9/26/2018**	**9/26/2018**	**9/27/2018**	**9/27/2018**	**9/27/2018**	**9/27/2018**	**10/2/2018**	**10/2/2018**	**10/3/2018**	**1/22/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**90-100 ft BGS Duplicate**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**60-70 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	93000	81000	83000	78000	79000	69000	71000	70000	69000	79000	130000
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	150	14 U	14 U	14 U	14 U	160	14 J	14 U	190	140	14 U
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	ug/L	58000	62000	57000	36000	36000	10000	8400	27000	42000	44000	58000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-31	VAS-31	VAS-31	VAS-32	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33	VAS-33
Sample ID:		GW-38443-012318-KVM-048	GW-38443-012318-KVM-049	GW-38443-012418-KVM-050	GW-38443-010818-KMV-027	GW-38443-010918-KVM-028	GW-38443-010918-KVM-029	GW-38443-010918-KVM-030	GW-38443-011118-KVM-038	GW-38443-011618-KVM-039	GW-38443-011618-KVM-040
Sample Date:		1/23/2018	1/23/2018	1/24/2018	1/8/2018	1/9/2018	1/9/2018	1/9/2018	1/11/2018	1/16/2018	1/16/2018
Sample Depth:		70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	70-80 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	0.23 U	0.23 U	0.23 U	0.34 J	0.23 U	0.23 U	0.23 U	0.58 U	0.38 U	0.38 U
1,1,2,2-Tetrachloroethane	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.80 U	0.53 U	0.53 U
1,1,2-Trichloroethane	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.85 U	0.57 U	0.57 U
1,1-Dichloroethane	ug/L	0.25 U	0.25 U	0.25 U	0.65 J	0.60 J	0.67 J	0.45 J	0.63 U	0.42 U	0.42 U
1,1-Dichloroethene	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.68 U	0.45 U	0.45 U
1,2,4-Trichlorobenzene	ug/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.68 UJ	0.45 U	0.45 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.65 U	0.43 U	0.43 U
1,2-Dichloroethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.75 U	0.50 U	0.50 U
1,2-Dichloropropane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.75 U	0.50 U	0.50 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.80 U	0.53 U	0.53 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.58 U	0.38 U	0.38 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	2.6 UJ	1.7 U	1.7 U
2-Hexanone	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	3.1 U	2.1 U	2.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	1.8 U	1.2 U	1.2 U
Acetone	ug/L	1.8 U	1.8 U	1.8 U	2.7 U	1.8 U	1.8 U	1.8 U	4.4 U	2.9 U	2.9 U
Benzene	ug/L	0.28 U	0.28 U	0.28 U	0.28 J	0.28 U	0.28 U	0.28 U	0.70 U	**0.52 J[b]**	0.47 U
Bromodichloromethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.75 U	0.50 U	0.50 U
Bromoform	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.1 U	0.72 U	0.72 U
Bromomethane (Methyl bromide)	ug/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	1.1 U	0.70 U	0.70 U
Carbon disulfide	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.85 U	0.57 U	0.57 U
Carbon tetrachloride	ug/L	0.35 UJ	0.35 UJ	0.35 U	0.35 UJ	0.35 UJ	0.35 UJ	0.35 UJ	0.88 U	0.58 U	0.58 U
Chlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.80 U	0.53 U	0.53 U
Chloroethane	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 U	0.68 UJ	0.68 UJ
Chloroform (Trichloromethane)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.78 U	0.52 U	0.52 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.1 U	0.72 U	0.72 U
cis-1,2-Dichloroethene	ug/L	**6.1[b]**	**5.0[b]**	**4.1[b]**	**19[b]**	2.8	2.0	**4.8[b]**	**9.4[b]**	**29[b]**	**26[b]**
cis-1,3-Dichloropropene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.65 U	0.43 U	0.43 U
Cyclohexane	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1 U	0.73 U	0.73 U
Dibromochloromethane	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.63 U	0.42 U	0.42 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.3 UJ	0.84 U	0.84 U
Ethylbenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.65 U	0.43 U	0.43 U
Isopropyl benzene	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.53 U	0.35 U	0.35 U
m&p-Xylenes	ug/L	0.24 U	0.24 U	0.24 U	0.41 J	0.24 U	0.24 U	0.24 U	0.60 U	0.40 U	0.40 U
Methyl acetate	ug/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	3.6 U	2.4 U	2.4 U
Methyl cyclohexane	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	1.1 U	0.75 U	0.75 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.68 U	0.45 U	0.45 U
Methylene chloride	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	1.3 U	4.1 U	4.1 U
o-Xylene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.70 U	0.47 U	0.47 U
Styrene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.58 U	0.38 U	0.38 U
Tetrachloroethene	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.75 U	0.50 U	0.50 U
Toluene	ug/L	0.23 U	0.23 U	0.38 J	0.61 J	0.23 U	0.26 J	0.27 J	0.58 U	0.38 U	0.38 U
trans-1,2-Dichloroethene	ug/L	0.32 J	0.29 U	0.29 U	1.1	0.29 U	0.29 U	0.29 U	0.73 U	0.48 U	0.48 U
trans-1,3-Dichloropropene	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.78 U	0.52 U	0.52 U
Trichloroethene	ug/L	0.33 U	0.33 U	0.33 U	**5.8[ab]**	**5.2[ab]**	**6.9[ab]**	**4.5[b]**	0.83 U	0.55 U	0.55 U
Trichlorofluoromethane (CFC-11)	ug/L	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	1.3 UJ	0.84 UJ	0.84 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 U	0.68 U	0.68 U
Vinyl chloride	ug/L	0.45 U	0.45 U	0.45 U	**10[ab]**	**2.0[b]**	**0.63 J[b]**	0.45 U	**29[ab]**	**50[ab]**	**44[ab]**
Xylenes (total)	ug/L	0.24 U	0.24 U	0.24 U	0.41 J	0.24 U	0.24 U	0.24 U	0.60 U	0.40 U	0.40 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-31	VAS-31	VAS-31	VAS-32	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33	VAS-33
Sample ID:		GW-38443-012318-KVM-048	GW-38443-012318-KVM-049	GW-38443-012418-KVM-050	GW-38443-010818-KMV-027	GW-38443-010918-KVM-028	GW-38443-010918-KVM-029	GW-38443-010918-KVM-030	GW-38443-011118-KVM-038	GW-38443-011618-KVM-039	GW-38443-011618-KVM-040
Sample Date:		1/23/2018	1/23/2018	1/24/2018	1/8/2018	1/9/2018	1/9/2018	1/9/2018	1/11/2018	1/16/2018	1/16/2018
Sample Depth:		70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	70-80 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-012318-KVM-048**	**GW-38443-012318-KVM-049**	**GW-38443-012418-KVM-050**	**GW-38443-010818-KMV-027**	**GW-38443-010918-KVM-028**	**GW-38443-010918-KVM-029**	**GW-38443-010918-KVM-030**	**GW-38443-011118-KVM-038**	**GW-38443-011618-KVM-039**	**GW-38443-011618-KVM-040**
Sample Date:		**1/23/2018**	**1/23/2018**	**1/24/2018**	**1/8/2018**	**1/9/2018**	**1/9/2018**	**1/9/2018**	**1/11/2018**	**1/16/2018**	**1/16/2018**
Sample Depth:		**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**70-80 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	ug/L	34 U	1400	200	**42000[b]**	**5800[b]**	**120000[b]**	**24000[b]**	230	370	450
Aluminum (dissolved)	ug/L	34 U	34 U	34 U	**7700[b]**	34 U	**10000[b]**	**7200[b]**	34 U	34 U	34 U
Antimony	ug/L	0.68 J	0.57 U	0.95 U	**2.6[b]**	**6.0[b]**	**2.2[b]**	0.95 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	ug/L	0.66 J	0.57 U	0.57 U	0.77 J	0.79 U	0.79 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	ug/L	**3.9 J[b]**	**2.6 J[b]**	**1.1 J[b]**	**220[ab]**	**7.0[b]**	**110[ab]**	**20[ab]**	**4.9 J[b]**	**5.3[b]**	**5.2[b]**
Arsenic (dissolved)	ug/L	**3.8 J[b]**	**2.3 J[b]**	**1.1 J[b]**	**38[ab]**	0.75 U	**8.5[b]**	**6.9[b]**	**4.7 J[b]**	**4.9 J[b]**	**5.3[b]**
Barium	ug/L	290	**410[b]**	**430[b]**	**2200[ab]**	320	**1600[b]**	**530[b]**	120	110	110
Barium (dissolved)	ug/L	290	**400[b]**	**410[b]**	**700[b]**	270	340	370	120	110	100
Beryllium	ug/L	0.31 U	0.31 U	0.31 U	**2.9[b]**	0.48 J	**5.4[ab]**	1.1	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	ug/L	0.31 U	0.31 U	0.31 U	0.52 J	0.31 U	0.46 J	0.32 J	0.31 U	0.31 U	0.31 U
Cadmium	ug/L	0.21 U	0.21 U	0.21 U	**3.1[b]**	0.30 J	**4.1[b]**	0.83 J	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	0.21 U	0.41 J	0.21 U	0.30 J	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	ug/L	120000	130000	130000	1000000	260000	1800000	440000	140000	130000	130000
Calcium (dissolved)	ug/L	110000	120000	120000	230000	140000	220000	200000	130000	130000	130000
Chromium	ug/L	0.98 U	3.6	0.98 U	**130[a]**	93	**300[a]**	**130[a]**	1.2 J	5.0	4.7
Chromium (dissolved)	ug/L	0.98 U	0.98 U	0.98 U	20	0.98 U	25	24	0.98 U	0.98 U	0.98 U
Cobalt	ug/L	0.39 J	**1.2[b]**	0.51 J	**46[b]**	**7.4[b]**	**100[b]**	**21[b]**	0.48 J	0.54 J	0.44 J
Cobalt (dissolved)	ug/L	0.35 J	0.28 J	0.34 J	**8.7[b]**	**0.91 J[b]**	**8.1[b]**	**5.4[b]**	0.35 J	0.25 J	0.24 J
Copper	ug/L	1.7 U	5.8	1.8 U	**180[b]**	17	**370[b]**	**87[b]**	5.6	1.8 J	1.7 U
Copper (dissolved)	ug/L	3.3	1.7 U	5.1	31	1.7 U	27	19	1.7 U	1.7 U	1.7 U
Iron	ug/L	**1500[b]**	**5200[b]**	**2300[b]**	**140000[b]**	**16000[b]**	**300000[b]**	**56000[b]**	**3900[b]**	**4600[b]**	**4600[b]**
Iron (dissolved)	ug/L	1300	1400	1200	**25000[b]**	**3700[b]**	**22000[b]**	**17000[b]**	**3400[b]**	**3800[b]**	**3800[b]**
Lead	ug/L	0.45 U	1.7	0.45 U	**120[ab]**	8.7	**220[ab]**	**39[ab]**	0.45 U	0.60 J	0.51 J
Lead (dissolved)	ug/L	0.45 U	0.45 U	0.45 U	**17[ab]**	0.45 U	14	9.1	0.45 U	0.45 U	0.45 U
Magnesium	ug/L	36000	44000	39000 U	310000	94000	440000	140000	48000	46000	46000
Magnesium (dissolved)	ug/L	36000	39000	37000 U	91000	49000	77000	67000	45000	46000	46000
Manganese	ug/L	**190[b]**	**150[b]**	**110[b]**	**5100[b]**	**1100[b]**	**7500[b]**	**2000[b]**	**240[b]**	**200[b]**	**200[b]**
Manganese (dissolved)	ug/L	**180[b]**	**91[b]**	**95[b]**	**1200[b]**	**660[b]**	**1100[b]**	**880[b]**	**210[b]**	**190[b]**	**190[b]**
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	0.13 U	0.13 U	**0.24[b]**	0.13 U	**0.22[b]**	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	2.0	3.9	2.1	**140[b]**	**50[b]**	**310[b]**	**84[b]**	1.9 J	2.8	2.7
Nickel (dissolved)	ug/L	1.9 J	1.5 U	1.5 U	26	3.6	23	18	1.5 U	1.5 U	1.5 U
Potassium	ug/L	4500	5100	4900 U	22000	9200	33000	11000	6800	6000	6000
Potassium (dissolved)	ug/L	4500	4900	4800 U	14000	7900	10000	8100	6600	6000	5900
Selenium	ug/L	0.89 U	0.89 U	0.89 U	4.9 J	1.2 J	**14[b]**	2.4 J	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	1.2 J	0.89 U	0.89 U	0.89 U	0.89 U
Silver	ug/L	0.053 U	0.053 U	0.053 U	0.40 J	0.053 U	0.65 J	0.13 J	0.053 U	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.072 J	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	69000	68000	70000 U	100000	96000	110000	110000	74000	53000	53000
Sodium (dissolved)	ug/L	69000	68000	70000 U	100000	95000	110000	110000	70000	53000	54000
Thallium	ug/L	0.20 U	0.20 U	0.20 U	**2.2[ab]**	**0.33 J[b]**	**3.0[ab]**	**0.65 J[b]**	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	**0.37 J[b]**	0.20 U	**0.30 J[b]**	**0.20 J[b]**	0.20 U	0.20 U	0.20 U
Vanadium	ug/L	0.82 U	2.9 J	0.82 U	**100[b]**	**12[b]**	**260[b]**	**51[b]**	0.82 U	0.98 J	0.82 U
Vanadium (dissolved)	ug/L	0.82 U	0.82 U	0.82 U	**18[b]**	0.82 U	**21[b]**	**15[b]**	0.82 U	0.82 U	0.82 U
Zinc	ug/L	240	170	210	**2600[b]**	**1500[b]**	**2300[b]**	**1300[b]**	380	550	580
Zinc (dissolved)	ug/L	250	140	210	**870[b]**	**1100[b]**	560	**830[b]**	360	370	400
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-31	VAS-31	VAS-31	VAS-32	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33	VAS-33
Sample ID:		GW-38443-012318-KVM-048	GW-38443-012318-KVM-049	GW-38443-012418-KVM-050	GW-38443-010818-KMV-027	GW-38443-010918-KVM-028	GW-38443-010918-KVM-029	GW-38443-010918-KVM-030	GW-38443-011118-KVM-038	GW-38443-011618-KVM-039	GW-38443-011618-KVM-040
Sample Date:		1/23/2018	1/23/2018	1/24/2018	1/8/2018	1/9/2018	1/9/2018	1/9/2018	1/11/2018	1/16/2018	1/16/2018
Sample Depth:		70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	70-80 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	140000	140000	150000	180000	170000	190000	190000	160000	130000	130000
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	14 U	45 J	810 U	70 U	47 J	14 U	14 U	15 J	14 U	14 U
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	ug/L	59000	64000	64000 U	50000	33000	44000	49000	81000	84000	83000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011618-KVM-041	GW-38443-011718-KVM-042	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090	GW-38443-022218-JC-091	GW-38443-022218-JC-092
Sample Date:		1/16/2018	1/17/2018	2/20/2018	2/20/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/22/2018	2/22/2018	2/22/2018
Sample Depth:		80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	100-110 ft BGS Duplicate	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.2 U	0.38 U	0.46 U	2.3 U	1.5 U	0.58 U	0.38 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	1.6 U	0.53 U	0.64 U	3.2 U	2.1 UJ	0.80 UJ	0.53 UJ	0.32 UJ	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	ug/L	1.7 U	0.57 U	0.68 U	3.4 U	2.3 U	0.85 U	0.57 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	ug/L	1.3 U	0.42 U	0.50 U	2.5 U	1.7 U	0.63 U	0.42 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	ug/L	1.4 U	0.45 U	0.54 U	2.7 U	1.8 U	0.68 U	0.45 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	1.4 U	0.45 U	0.54 U	2.7 U	1.8 U	0.68 U	0.45 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	1.3 U	0.43 U	0.52 U	2.6 U	1.7 U	0.65 U	0.43 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	ug/L	1.5 U	0.50 U	0.60 U	3.0 U	2.0 U	0.75 U	0.50 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	ug/L	1.5 U	0.50 U	0.60 U	3.0 U	2.0 U	0.75 U	0.50 U	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	1.6 U	0.53 U	0.64 U	3.2 U	2.1 U	0.80 U	0.53 U	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	1.2 U	0.38 U	0.46 U	2.3 U	1.5 U	0.58 U	0.38 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	5.1 U	1.7 U	2.0 U	10 U	6.8 U	2.6 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	6.2 U	2.1 U	2.5 U	12 U	8.2 U	3.1 U	2.1 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	3.6 U	1.9 J	1.4 U	7.1 U	4.7 U	1.8 U	1.2 U	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	ug/L	8.8 U	2.9 U	3.5 U	18 U	110 U	4.4 U	2.9 U	1.8 U	1.8 UJ	1.8 UJ	1.8 UJ
Benzene	ug/L	1.4 U	0.47 U	0.56 U	2.8 U	1.9 U	0.70 U	0.47 U	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	ug/L	1.5 U	0.50 U	0.60 U	3.0 U	2.0 U	0.75 U	0.50 U	0.30 U	0.30 U	1.1[b]	0.30 U
Bromoform	ug/L	2.2 U	0.72 U	0.86 U	4.3 U	2.9 UJ	1.1 U	0.72 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	2.1 U	0.70 U	0.84 UJ	4.2 UJ	2.8 U	1.1 U	0.70 U	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	ug/L	1.7 U	0.57 U	0.85 J	3.4 U	2.3 U	0.85 U	0.57 U	0.34 U	0.60 J	0.34 U	0.34 U
Carbon tetrachloride	ug/L	1.8 U	0.58 U	0.70 U	3.5 U	2.3 U	0.88 U	0.58 U	0.35 U	0.35 U	0.35 U	0.35 U
Chlorobenzene	ug/L	1.6 U	0.53 U	0.64 U	3.2 U	2.1 U	0.80 U	0.53 U	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	ug/L	2.1 UJ	0.68 U	0.82 U	4.1 U	2.7 U	1.0 U	0.68 U	0.41 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	ug/L	1.6 U	0.52 U	0.62 U	3.1 U	2.1 U	0.78 U	0.52 U	0.31 U	0.31 U	1.8[b]	0.31 U
Chloromethane (Methyl chloride)	ug/L	2.2 U	0.72 U	0.86 U	4.3 U	2.9 U	1.1 U	0.72 U	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	36[b]	39[b]	53[b]	78[ab]	71[ab]	48[b]	19[b]	21[b]	2.6	3.0	5.2[b]
cis-1,3-Dichloropropene	ug/L	1.3 U	0.43 U	0.52 U	2.6 U	1.7 U	0.65 U	0.43 U	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	ug/L	2.2 U	0.73 U	0.88 U	4.4 U	2.9 U	1.1 U	0.73 U	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	ug/L	1.3 U	0.42 U	0.50 U	2.5 U	1.7 U	0.63 U	0.42 U	0.25 U	0.25 U	0.85 J	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	2.5 U	0.84 U	1.0 U	5.0 U	3.3 U	1.3 U	0.84 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	ug/L	1.3 U	0.43 U	0.52 U	2.6 U	1.7 U	0.65 U	0.43 U	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	ug/L	1.1 U	0.35 U	0.42 U	2.1 U	1.4 U	0.53 U	0.35 U	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	1.2 U	0.40 U	0.48 U	2.4 U	1.6 U	0.60 U	0.40 U	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	ug/L	7.2 U	2.4 U	2.9 U	14 U	9.5 U	3.6 U	2.4 U	1.4 U	1.4 UJ	1.4 UJ	1.4 UJ
Methyl cyclohexane	ug/L	2.3 U	0.75 U	0.90 U	4.5 U	3.0 U	1.1 U	0.75 U	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	1.4 U	0.45 U	0.54 U	2.7 U	1.8 U	0.68 U	0.45 U	0.27 U	0.27 U	0.36 J	0.27 U
Methylene chloride	ug/L	12 U	2.4 U	2.0	9.8 J[a]	5.8 U	2.4 U	2.3 U	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	ug/L	1.4 U	0.47 U	0.56 U	2.8 U	1.9 U	0.70 U	0.47 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	ug/L	1.2 U	0.38 U	0.46 U	2.3 U	1.5 U	0.58 U	0.38 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	1.5 U	0.50 U	0.60 U	3.0 U	2.0 U	0.75 U	0.50 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	ug/L	1.2 U	0.38 U	0.46 U	2.3 U	1.5 UJ	0.69 J	0.52 J	0.53 J	0.23 U	0.24 J	0.23 J
trans-1,2-Dichloroethene	ug/L	1.5 U	0.48 U	1.4 J	2.9 U	1.9 U	0.73 U	0.48 U	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	ug/L	1.6 U	0.52 U	0.62 U	3.1 U	2.1 U	0.78 U	0.52 U	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	ug/L	1.7 U	0.55 U	0.72 J[b]	3.3 U	2.2 U	4.1[b]	0.79 J[b]	0.90 J[b]	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	ug/L	2.5 UJ	0.84 U	1.0 U	5.0 U	3.3 U	1.3 U	0.84 U	0.50 U	0.50 U	0.50 U	0.50 U
Trifluorotrichloroethane (CFC-113)	ug/L	2.1 U	0.68 U	0.82 U	4.1 U	2.7 UJ	1.0 UJ	0.68 UJ	0.41 UJ	0.41 U	0.41 U	0.41 U
Vinyl chloride	ug/L	44[ab]	49[ab]	2.3[ab]	110[ab]	64[ab]	39[ab]	14[ab]	17[ab]	2.8[ab]	3.6[ab]	4.1[ab]
Xylenes (total)	ug/L	1.2 U	0.40 U	0.48 U	2.4 U	1.6 U	0.60 U	0.40 U	0.24 U	0.24 U	0.24 U	0.24 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011618-KVM-041	GW-38443-011718-KVM-042	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090	GW-38443-022218-JC-091	GW-38443-022218-JC-092
Sample Date:		1/16/2018	1/17/2018	2/20/2018	2/20/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/22/2018	2/22/2018	2/22/2018
Sample Depth:		80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	100-110 ft BGS Duplicate	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011618-KVM-041	GW-38443-011718-KVM-042	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090	GW-38443-022218-JC-091	GW-38443-022218-JC-092
Sample Date:		1/16/2018	1/17/2018	2/20/2018	2/20/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/22/2018	2/22/2018	2/22/2018
Sample Depth:		80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	100-110 ft BGS Duplicate	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	92	73 U	54	580	34 J	1900	680	570	93	3800[b]	980
Aluminum (dissolved)	ug/L	34 U	34 U	34 U	34 U	34 U	55	34 U	34 U	34 U	410	130
Antimony	ug/L	0.57 U	4.9[b]	1.6 J[b]	0.57 U	1.7 J[b]	1.2 J[b]	0.70 J	0.70 J	1.8 J[b]	1.1 J[b]	0.60 J
Antimony (dissolved)	ug/L	0.57 U	0.89 J[b]	1.5 J[b]	0.57 U	1.1 J[b]	0.57 U	0.57 U	0.57 U	1.5 J[b]	0.57 U	0.57 U
Arsenic	ug/L	4.4 J[b]	4.3 U	2.9 J[b]	6.2[b]	4.1 J[b]	5.6[b]	3.8 J[b]	3.6 J[b]	1.2 J[b]	4.7 J[b]	4.1 J[b]
Arsenic (dissolved)	ug/L	4.4 J[b]	4.1 U	2.9 J[b]	5.4[b]	4.9 J[b]	3.3 J[b]	2.8 J[b]	3.2 J[b]	2.1 J[b]	1.7 J[b]	2.7 J[b]
Barium	ug/L	110	90	110	93	99	140	88	84	84	120	120
Barium (dissolved)	ug/L	100	90	110	84	97	91	73	74	77	81	110
Beryllium	ug/L	0.31 U	0.36 J	0.31 U	0.31 U	0.45 J	0.44 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	ug/L	0.21 U	0.33 J	0.21 U	0.21 U	0.29 J	0.28 J	0.21 U	0.21 U	0.31 J	0.28 J	0.21 U
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	ug/L	120000	110000	120000	110000	99000	100000	98000	97000	97000	120000	110000
Calcium (dissolved)	ug/L	120000	110000	120000	100000	100000	86000	85000	90000	96000	82000	99000
Chromium	ug/L	0.98 U	1.4 J	0.98 U	6.1	1.1 J	11	25	22	1.9 J	39	31
Chromium (dissolved)	ug/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.5	4.7
Cobalt	ug/L	0.31 J	0.33 J	0.39 J	0.76 J[b]	0.41 J	2.2[b]	1.0[b]	0.90 J[b]	0.59 J	4.4[b]	1.4[b]
Cobalt (dissolved)	ug/L	0.25 J	0.22 J	0.35 J	0.19 U	0.29 J	0.44 J	0.21 J	0.20 J	0.31 J	1.0[b]	0.35 J
Copper	ug/L	1.7 U	10 U	1.7 U	3.3	1.7 U	30	23 J	11 U	1.7 U	36	13
Copper (dissolved)	ug/L	1.7 U	10 U	1.7 U	1.7 U	5.5 U	3.9 U	1.7 U	4.1 U	1.7 J	6.2	4.4
Iron	ug/L	2100[b]	3400[b]	1300	6500[b]	6100[b]	7900[b]	10000[b]	9300[b]	11000[b]	26000[b]	13000[b]
Iron (dissolved)	ug/L	1900[b]	3100[b]	1100	2900[b]	2500[b]	2100[b]	1800[b]	1900[b]	2400[b]	4300[b]	4000[b]
Lead	ug/L	0.45 U	0.45 U	0.45 U	1.3	0.45 U	40[ab]	11	8.6	0.53 J	10	3.2
Lead (dissolved)	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	1.5	0.45 U	0.45 U	0.45 U	1.3	0.64 J
Magnesium	ug/L	41000	41000 U	49000	42000	38000	41000	39000	38000	40000	51000	44000
Magnesium (dissolved)	ug/L	41000	40000 U	48000	37000	38000	35000	35000	37000	39000	37000	41000
Manganese	ug/L	220[b]	220[b]	420[b]	210[b]	190[b]	240[b]	260[b]	240[b]	240[b]	690[b]	420[b]
Manganese (dissolved)	ug/L	210[b]	210[b]	400[b]	160[b]	180[b]	170[b]	160[b]	170[b]	200[b]	400[b]	320[b]
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	1.5 U	1.6 J	2.2	3.0	2.0	6.8	5.6	5.0	3.9	17	6.4
Nickel (dissolved)	ug/L	1.5 U	1.5 U	2.1	1.5 U	1.5 U	1.5 J	1.5 U	1.5 U	1.5 J	5.6	2.5
Potassium	ug/L	5900	6700 U	7400	8200	8400	7700	6400	6200	5800	6800	7800
Potassium (dissolved)	ug/L	5900	6700 U	7300	8000	8600	7200	5900	6400	5800	5700	7800
Selenium	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	1.0 J	0.89 U
Selenium (dissolved)	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.074 J	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	50000	48000 U	78000	53000	50000	43000	39000	39000	36000	33000	32000
Sodium (dissolved)	ug/L	50000	48000 U	76000	53000	51000	43000	38000	41000	36000	33000	32000
Thallium	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	ug/L	0.82 U	0.82 U	0.82 U	1.8 J	0.82 U	4.7 J	2.3 J	2.2 J	0.82 U	12[b]	4.3 J
Vanadium (dissolved)	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.2 J	0.82 U
Zinc	ug/L	340	330	86	370	470	400	350	340	600	260	330
Zinc (dissolved)	ug/L	310	240	72	340	450	300	250	270	530	88	240
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-011618-KVM-041	GW-38443-011718-KVM-042	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088	GW-38443-022218-JC-090	GW-38443-022218-JC-091	GW-38443-022218-JC-092
Sample Date:		1/16/2018	1/17/2018	2/20/2018	2/20/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018	2/22/2018	2/22/2018	2/22/2018
Sample Depth:		80-90 ft BGS	90-100 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	100-110 ft BGS Duplicate	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	94000	83000 U	150000	85000	79000	69000	63000	63000	69000	74000	76000
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	14 U	14 U	44 J	28 J	14 U	64 J	49 J	48 J	22 J	420	45 J
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	ug/L	83000	81000 U	85000	77000	76000	76000	77000	77000	78000	69000	79000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-34	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-38
Sample ID:		GW-38443-022318-JC-094	GW-38443-091918-JC-173	GW-38443-091918-JC-174	GW-38443-091918-JC-175	GW-38443-092018-JC-176	GW-38443-092018-JC-177	GW-38443-092018-JC-179	GW-38443-092118-JC-180	GW-38443-092418-JC-181	GW-38443-092418-JC-182	GW-38443-021318-JC-075
Sample Date:		2/23/2018	9/19/2018	9/19/2018	9/19/2018	9/20/2018	9/20/2018	9/20/2018	9/21/2018	9/24/2018	9/24/2018	2/13/2018
Sample Depth:		140-150 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	70-80 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	0.23 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.32 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.34 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.34 U
1,1-Dichloroethane	ug/L	0.25 U	0.17 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.74 J	0.25 U
1,1-Dichloroethene	ug/L	0.27 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	1.2[b]	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U
1,2-Dichloropropane	ug/L	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.0 U
2-Hexanone	ug/L	1.2 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	1.2 J	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.71 U
Acetone	ug/L	1.8 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	1.8 U
Benzene	ug/L	0.28 U	0.13 U	0.13 U	0.21 U	0.13 U	0.13 U	0.13 U	0.42 J	0.13 U	0.25 J	0.28 U
Bromodichloromethane	ug/L	0.30 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.30 U
Bromoform	ug/L	0.43 UJ	0.76 U	0.76 UJ	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	0.42 UJ	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 UJ
Carbon disulfide	ug/L	0.37 J	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.34 U
Carbon tetrachloride	ug/L	0.35 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.35 UJ
Chlorobenzene	ug/L	0.32 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.36 J	0.32 U
Chloroethane	ug/L	0.41 U	1.4	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.41 U
Chloroform (Trichloromethane)	ug/L	0.31 U	0.36 J[b]	0.13 U	0.24 J[b]	0.25 J[b]	0.27 J[b]	0.27 J[b]	0.13 J	0.13 U	0.26 J[b]	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.43 U
cis-1,2-Dichloroethene	ug/L	2.1	0.21 J	0.16 U	0.41 J	11[b]	11[b]	13[b]	17[b]	9.3[b]	11[b]	0.41 J
cis-1,3-Dichloropropene	ug/L	0.26 U	0.61 UJ	0.61 U	0.61 UJ	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.26 U
Cyclohexane	ug/L	0.44 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.44 U
Dibromochloromethane	ug/L	0.25 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.50 UJ
Ethylbenzene	ug/L	0.26 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.13 J	0.26 U
Isopropyl benzene	ug/L	0.21 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.21 U
m&p-Xylenes	ug/L	0.24 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.18 J	0.24 U
Methyl acetate	ug/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U
Methyl cyclohexane	ug/L	0.45 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.070 U	0.070 U	0.070 U	0.11 J	0.16 J	0.21 J	0.12 J	0.15 J	0.070 U	0.27 U
Methylene chloride	ug/L	0.53 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	0.53 U
o-Xylene	ug/L	0.28 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.28 U
Styrene	ug/L	0.23 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.23 U
Tetrachloroethene	ug/L	0.30 U	0.15 U	0.15 U	0.15 U	2.5 U	2.5 U	2.5 U	0.15 U	0.15 U	0.15 U	0.30 U
Toluene	ug/L	0.23 U	1.6	0.14 U	1.8	1.2	1.5	8.1	0.68 J	6.6	5.0	0.23 U
trans-1,2-Dichloroethene	ug/L	0.29 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.29 U
trans-1,3-Dichloropropene	ug/L	0.31 U	0.67 UJ	0.67 U	0.67 UJ	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.31 U
Trichloroethene	ug/L	0.33 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.31 U	0.10 U	0.10 U	0.33 U
Trichlorofluoromethane (CFC-11)	ug/L	0.50 UJ	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.50 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ
Vinyl chloride	ug/L	2.4[ab]	0.55 J[b]	0.20 U	2.6[ab]	2.8[ab]	2.6[ab]	2.3[ab]	3.2[ab]	2.5[ab]	1.7[b]	0.81 J[b]
Xylenes (total)	ug/L	0.24 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.18 J	0.24 U
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	0.53 U	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	1.9 U	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	1.7 U	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	0.25 U	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	0.50 U	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-34	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-38
Sample ID:		GW-38443-022318-JC-094	GW-38443-091918-JC-173	GW-38443-091918-JC-174	GW-38443-091918-JC-175	GW-38443-092018-JC-176	GW-38443-092018-JC-177	GW-38443-092018-JC-179	GW-38443-092118-JC-180	GW-38443-092418-JC-181	GW-38443-092418-JC-182	GW-38443-021318-JC-075
Sample Date:		2/23/2018	9/19/2018	9/19/2018	9/19/2018	9/20/2018	9/20/2018	9/20/2018	9/21/2018	9/24/2018	9/24/2018	2/13/2018
Sample Depth:		140-150 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	70-80 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
2,4-Dinitrophenol	ug/L	-	-	-	6.0 U	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	2.0 U	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	2.0 U	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	0.46 U	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	0.26 U	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	0.11 U	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	0.20 U	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	0.49 U	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	0.54 U	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	0.18 U	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	1.1 U	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	0.54 U	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	2.7 U	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	0.48 U	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	0.28 U	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	0.30 U	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	0.53 U	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	0.88 U	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	2.1 U	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	0.17 U	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	0.12 U	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	0.35 U	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	0.13 U	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	0.92 U	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	0.73 U	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	0.16 U	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	0.17 U	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	0.15 U	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	0.17 U	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	0.13 U	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	0.47 U	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	0.44 U	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	0.39 U	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	2.1 U	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	0.64 U	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	0.90 U	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	0.47 U	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	0.18 U	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	0.15 U	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	0.54 U	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	3.7 U	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	0.50 U	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	1.7 U	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	0.79 U	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	0.15 U	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	0.16 U	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	0.15 U	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	0.52 U	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	1.7 U	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	0.38 U	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	0.13 U	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	0.31 U	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	0.10 U	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	0.49 U	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	0.24 U	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	0.42 U	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	3.0 U	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	0.16 U	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	0.12 U	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-34**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-38**
Sample ID:		**GW-38443-022318-JC-094**	**GW-38443-091918-JC-173**	**GW-38443-091918-JC-174**	**GW-38443-091918-JC-175**	**GW-38443-092018-JC-176**	**GW-38443-092018-JC-177**	**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**	**GW-38443-021318-JC-075**
Sample Date:		**2/23/2018**	**9/19/2018**	**9/19/2018**	**9/19/2018**	**9/20/2018**	**9/20/2018**	**9/20/2018**	**9/21/2018**	**9/24/2018**	**9/24/2018**	**2/13/2018**
Sample Depth:		**140-150 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**70-80 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Pyrene	ug/L	-	-	-	0.17 U	-	-	-	-	-	-	-
Metals												
Aluminum	ug/L	37 J	50	230	310	34 U	80 U	920	150	50	**3300[b]**	66
Aluminum (dissolved)	ug/L	34 U	34 U	34 U	34 U	34 U	34 U	42 J	34 U	34 U	34 U	34 U
Antimony	ug/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	1.2 U
Antimony (dissolved)	ug/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	1.5 U
Arsenic	ug/L	**2.2 J[b]**	**3.3 J[b]**	**2.9 J[b]**	**3.5 J[b]**	**1.2 J[b]**	**1.2 J[b]**	**2.5 J[b]**	**2.0 J[b]**	**1.7 J[b]**	**3.7 J[b]**	**1.7 J[b]**
Arsenic (dissolved)	ug/L	**2.3 J[b]**	**3.5 J[b]**	**2.9 J[b]**	**3.0 J[b]**	**1.1 J[b]**	**1.2 J[b]**	**1.7 J[b]**	**1.9 J[b]**	**1.9 J[b]**	**1.3 J[b]**	**1.4 J[b]**
Barium	ug/L	120 U	300	160	130	120	120	120	120	110	150	190
Barium (dissolved)	ug/L	130 U	320	160	120	120	120	110	110	110	110	180
Beryllium	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.45 J	0.84 J	0.31 U
Beryllium (dissolved)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.37 J	0.31 U
Cadmium	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.25 J
Calcium	ug/L	95000 U	79000	110000	120000	120000	120000	140000	120000	120000	170000	79000
Calcium (dissolved)	ug/L	96000 U	84000	110000	120000	120000	120000	120000	120000	120000	120000	78000
Chromium	ug/L	0.98 U	0.98 U	1.3 J	0.98 U	0.98 U	0.98 U	7.5	0.98 U	0.98 U	19	1.2 J
Chromium (dissolved)	ug/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	ug/L	0.19 U	0.31 J	0.49 J	0.59 J	**0.61 J[b]**	0.60 J	**1.3[b]**	**0.67 J[b]**	**0.81 J[b]**	**3.1[b]**	0.51 J
Cobalt (dissolved)	ug/L	0.19 U	0.27 J	0.38 J	0.36 J	0.60 J	0.60 J	0.56 J	0.50 J	**0.68 J[b]**	0.49 J	0.33 J
Copper	ug/L	2.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	54 U	2.0	1.7 U	14	10
Copper (dissolved)	ug/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	6.0
Iron	ug/L	**2800[b]**	**3200[b]**	**4200[b]**	**3900[b]**	**3600[b]**	**3600[b]**	**7200[b]**	**8000[b]**	**6100[b]**	**16000[b]**	**6100[b]**
Iron (dissolved)	ug/L	**2700[b]**	**2800[b]**	**3500[b]**	**3300[b]**	**3400[b]**	**3500[b]**	**3600[b]**	**4700[b]**	**4400[b]**	**3200[b]**	**2600[b]**
Lead	ug/L	0.45 U	1.5	2.2	1.6	0.45 U	0.45 U	2.5 U	0.51 J	0.45 U	5.3	0.83 J
Lead (dissolved)	ug/L	0.45 U	0.58 J	0.45 U	0.62 J	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	ug/L	39000 U	51000	67000	61000	54000	54000	54000	47000	45000	61000	51000
Magnesium (dissolved)	ug/L	40000 U	54000	67000	59000	53000	53000	49000	46000	44000	45000	50000
Manganese	ug/L	**260[b]**	41	**110[b]**	**120[b]**	**210[b]**	**210[b]**	**420[b]**	**280[b]**	**250[b]**	**440[b]**	**87[b]**
Manganese (dissolved)	ug/L	**260[b]**	39	**98[b]**	**110[b]**	**200[b]**	**200[b]**	**350[b]**	**250[b]**	**230[b]**	**170[b]**	**71[b]**
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.15 J[b]**	0.13 U	**0.20[b]**	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.24[b]**	0.13 U	**0.19 J[b]**	0.13 U	0.13 U	0.13 U
Nickel	ug/L	1.5 U	2.2	1.5 U	1.5 U	1.5 U	1.5 U	3.7	1.6 J	1.5 U	9.2	3.0
Nickel (dissolved)	ug/L	1.5 U	2.0	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	2.0
Potassium	ug/L	8000 U	22000	19000	16000	13000	14000	10000	9400	8300	9800	13000
Potassium (dissolved)	ug/L	8000 U	23000	19000	16000	13000	13000	10000	9300	8100	8700	13000
Selenium	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Selenium (dissolved)	ug/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.99 J
Silver	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	37000 U	74000	76000	82000	76000	77000	77000	81000	78000	79000	56000
Sodium (dissolved)	ug/L	37000 U	78000	76000	81000	75000	77000	79000	79000	76000	77000	55000
Thallium	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.25 J[b]**	0.20 U
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	2.3 J	0.82 U	0.82 U	**9.4[b]**	0.82 U
Vanadium (dissolved)	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	ug/L	230	**900[b]**	490	**1300[b]**	**2700[b]**	**2700[b]**	**2500[b]**	**1600[b]**	**1600[b]**	**2000[b]**	200
Zinc (dissolved)	ug/L	220	**910[b]**	450	**840[b]**	**2600[b]**	**2500[b]**	**2300[b]**	**1400[b]**	**1500[b]**	**1400[b]**	180
PCBs												
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	0.054 U	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	0.055 U	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-34**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-37**	**VAS-38**
Sample ID:		**GW-38443-022318-JC-094**	**GW-38443-091918-JC-173**	**GW-38443-091918-JC-174**	**GW-38443-091918-JC-175**	**GW-38443-092018-JC-176**	**GW-38443-092018-JC-177**	**GW-38443-092018-JC-179**	**GW-38443-092118-JC-180**	**GW-38443-092418-JC-181**	**GW-38443-092418-JC-182**	**GW-38443-021318-JC-075**
Sample Date:		**2/23/2018**	**9/19/2018**	**9/19/2018**	**9/19/2018**	**9/20/2018**	**9/20/2018**	**9/20/2018**	**9/21/2018**	**9/24/2018**	**9/24/2018**	**2/13/2018**
Sample Depth:		**140-150 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**70-80 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	0.071 U	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	0.073 U	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	0.048 U	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	0.038 U	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	0.044 U	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	ug/L	-	-	-	0.0051 UJ	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	0.0041 UJ	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	0.0046 UJ	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	0.0023 UJ	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	0.0019 UJ	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	0.0031 UJ	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	0.0044 UJ	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	0.0041 UJ	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	0.0022 UJ	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	0.0036 UJ	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	0.0022 UJ	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	0.0036 UJ	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	0.0024 UJ	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	0.0044 UJ	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	0.0038 UJ	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	0.0024 UJ	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	0.0048 UJ	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	0.0032 UJ	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	0.0025 UJ	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	0.0045 UJ	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	0.056 UJ	-	-	-	-	-	-	-
Gases												
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	76000 U	78000	120000	120000	110000	110000	120000	120000	120000	130000	52000
Cyanide (total)	ug/L	-	-	-	6 U	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	1600 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	ug/L	81000 U	24000	72000	77000	71000	71000	82000	83000	81000	83000	25000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-38**	**VAS-38**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-021318-JC-076**	**GW-38443-021418-JC-077**	**GW-38443-013018-KVM-058**	**GW-38443-013118-KVM-059**	**GW-38443-013118-KVM-060**	**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**	**GW-38443-020518-KVM-063**	**GW-38443-020518-KVM-064**	**GW-038443-020618-KVM-065**
Sample Date:		**2/13/2018**	**2/14/2018**	**1/30/2018**	**1/31/2018**	**1/31/2018**	**2/1/2018**	**2/1/2018**	**2/5/2018**	**2/5/2018**	**2/6/2018**
Sample Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	ug/L	0.32 U	0.32 UJ	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1,2-Trichloroethane	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,1-Dichloroethane	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 U	0.27 U	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 U	0.27 U	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	ug/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloropropane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	ug/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	ug/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	1.8 UJ	1.8 U
Benzene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	ug/L	0.43 U	0.43 UJ	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	ug/L	0.42 UJ	0.42 U	0.42 UJ	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 UJ
Carbon disulfide	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Carbon tetrachloride	ug/L	0.35 UJ	0.35 U	0.35 UJ	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 UJ
Chlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	ug/L	0.49 J	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 UJ	0.41 UJ	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.62 J	2.1	0.75 J	3.1	1.8	3.6	0.63 J	0.30 U	0.30 U	0.30 U
cis-1,3-Dichloropropene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Cyclohexane	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 UJ	0.50 U	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 UJ
Ethylbenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methyl acetate	ug/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Methylene chloride	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	ug/L	0.34 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.35 J	0.29 U	0.29 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Trichloroethene	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	ug/L	0.50 UJ	0.50 U	0.50 UJ	0.50 U	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Trifluorotrichloroethane (CFC-113)	ug/L	0.41 UJ	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	ug/L	**1.5[b]**	**0.52 J[b]**	**2.3[ab]**	**0.60 J[b]**	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-38	VAS-38	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44
Sample ID:		GW-38443-021318-JC-076	GW-38443-021418-JC-077	GW-38443-013018-KVM-058	GW-38443-013118-KVM-059	GW-38443-013118-KVM-060	GW-38443-020118-KVM-061	GW-38443-020118-KVM-062	GW-38443-020518-KVM-063	GW-38443-020518-KVM-064	GW-038443-020618-KVM-065
Sample Date:		2/13/2018	2/14/2018	1/30/2018	1/31/2018	1/31/2018	2/1/2018	2/1/2018	2/5/2018	2/5/2018	2/6/2018
Sample Depth:		80-90 ft BGS	90-100 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
2,4-Dinitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	ug/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	ug/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	ug/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	ug/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	ug/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	ug/L	-	-	-	-	-	-	-	-	-	-
Anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Atrazine	ug/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	ug/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	ug/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	ug/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	ug/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	ug/L	-	-	-	-	-	-	-	-	-	-
Carbazole	ug/L	-	-	-	-	-	-	-	-	-	-
Chrysene	ug/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	ug/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	ug/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	ug/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	ug/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	ug/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	ug/L	-	-	-	-	-	-	-	-	-	-
Fluorene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	ug/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	ug/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Isophorone	ug/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	ug/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	ug/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	ug/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	ug/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	ug/L	-	-	-	-	-	-	-	-	-	-
Phenol	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-38**	**VAS-38**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-021318-JC-076**	**GW-38443-021418-JC-077**	**GW-38443-013018-KVM-058**	**GW-38443-013118-KVM-059**	**GW-38443-013118-KVM-060**	**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**	**GW-38443-020518-KVM-063**	**GW-38443-020518-KVM-064**	**GW-038443-020618-KVM-065**
Sample Date:		**2/13/2018**	**2/14/2018**	**1/30/2018**	**1/31/2018**	**1/31/2018**	**2/1/2018**	**2/1/2018**	**2/5/2018**	**2/5/2018**	**2/6/2018**
Sample Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Pyrene	ug/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	ug/L	120	34 U	750	260	170	48 J	220	34 U	57	280
Aluminum (dissolved)	ug/L	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Antimony	ug/L	0.57 U	1.4 U	0.57 U	1.4 U	0.57 U	0.85 U	0.57 U	1.9 U	0.90 U	0.57 U
Antimony (dissolved)	ug/L	0.57 U	1.6 U	0.57 U	0.70 U	0.57 U	0.83 U	0.57 U	1.4 U	0.57 U	1.3 U
Arsenic	ug/L	**2.8 J[b]**	**2.7 J[b]**	**7.1[b]**	**4.9 J[b]**	**4.9 J[b]**	**5.6[b]**	**4.6 J[b]**	**5.0[b]**	**4.7 J[b]**	2.3 U
Arsenic (dissolved)	ug/L	**3.0 J[b]**	**2.7 J[b]**	**7.1[b]**	**4.3 J[b]**	**5.4[b]**	**5.9[b]**	**4.1 J[b]**	**4.6 J[b]**	**4.5 J[b]**	2.4 U
Barium	ug/L	**490[b]**	**730[b]**	130	140	130	110	110	110	110	100 U
Barium (dissolved)	ug/L	**490[b]**	**730[b]**	130	140	130	110	110	110	110	100 U
Beryllium	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.42 J	0.31 U	0.31 U
Beryllium (dissolved)	ug/L	0.31 U	0.31 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	ug/L	0.21 U	0.21 U	0.21 U	0.22 J	0.21 U	0.21 U	0.21 U	0.28 J	0.21 U	0.21 U
Cadmium (dissolved)	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	ug/L	66000	85000	100000	100000	100000	95000	100000	100000	110000	110000 U
Calcium (dissolved)	ug/L	66000	86000	100000	94000	100000	95000	99000	100000	110000	110000 U
Chromium	ug/L	1.1 J	0.98 U	3.0	3.8	5.1	0.98 U	3.6	0.98 U	0.98 U	1.1 J
Chromium (dissolved)	ug/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	ug/L	0.41 J	0.47 J	0.51 J	0.48 J	0.39 J	0.28 J	0.42 J	0.27 J	0.27 J	0.39 J
Cobalt (dissolved)	ug/L	0.30 J	0.38 J	0.19 U	0.21 J	0.28 J	0.31 J	0.19 U	0.19 U	0.19 U	0.28 J
Copper	ug/L	2.7	12	1.7 U	1.7 J	7.1	3.8	3.0	4.8	1.7 U	4.1 U
Copper (dissolved)	ug/L	1.7 U	1.7 U	3.4	1.7 U	1.7 U	4.1	1.7 U	1.7 U	1.7 U	8.6 U
Iron	ug/L	**2100[b]**	**5600[b]**	**3500[b]**	**2400[b]**	**1500[b]**	1400	**3700[b]**	**1600[b]**	1400	1400
Iron (dissolved)	ug/L	1300	**2500[b]**	**2500[b]**	**1900[b]**	1300	1200	**1700[b]**	**1500[b]**	1200	1200
Lead	ug/L	0.45 U	0.80 J	0.93 J	0.54 J	0.60 J	0.45 U	1.1	0.47 J	0.45 U	0.55 J
Lead (dissolved)	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.59 J
Magnesium	ug/L	42000	54000	39000	37000	36000	38000	38000	41000	43000	35000 U
Magnesium (dissolved)	ug/L	42000	54000	38000	36000	37000	38000	37000	40000	41000	36000 U
Manganese	ug/L	**58[b]**	**58[b]**	**110[b]**	**100[b]**	**110[b]**	**110[b]**	**140[b]**	**140[b]**	**180[b]**	**270[b]**
Manganese (dissolved)	ug/L	**49[b]**	**53[b]**	**86[b]**	**93[b]**	**100[b]**	**110[b]**	**110[b]**	**140[b]**	**160[b]**	**280[b]**
Manganese 2+	ug/L	-	-	-	-	-	-	-	-	-	-
Mercury	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	ug/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	ug/L	2.7	1.9 J	2.7	3.7	2.9	1.5 U	2.1	1.5 U	1.5 U	1.6 J
Nickel (dissolved)	ug/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	ug/L	11000	16000	4800	4500	4800	5200	4400	4500	4500	3600 U
Potassium (dissolved)	ug/L	11000	16000	4700	4400	4800	5100	4400	4500	4300	3600 U
Selenium	ug/L	0.89 U	1.2 J	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	1.0 J	0.89 U	0.89 U
Selenium (dissolved)	ug/L	0.89 U	1.3 J	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	ug/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	ug/L	39000	47000	53000	53000	52000	50000	50000	47000	42000	38000 U
Sodium (dissolved)	ug/L	40000	47000	54000	52000	52000	50000	50000	46000	41000	40000 U
Thallium	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.21 J[b]**	0.20 U	0.20 U
Thallium (dissolved)	ug/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	ug/L	0.82 U	0.82 U	1.3 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	ug/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	ug/L	130	280	200	210	140	250	130	110	120	120
Zinc (dissolved)	ug/L	120	260	150	170	130	250	120	110	110	120
PCBs											
Aroclor-1016 (PCB-1016)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	ug/L	-	-	-	-	-	-	-	-	-	-

Table 2

Analytical Results for Groundwater Samples
OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-38**	**VAS-38**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-021318-JC-076**	**GW-38443-021418-JC-077**	**GW-38443-013018-KVM-058**	**GW-38443-013118-KVM-059**	**GW-38443-013118-KVM-060**	**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**	**GW-38443-020518-KVM-063**	**GW-38443-020518-KVM-064**	**GW-038443-020618-KVM-065**
Sample Date:		**2/13/2018**	**2/14/2018**	**1/30/2018**	**1/31/2018**	**1/31/2018**	**2/1/2018**	**2/1/2018**	**2/5/2018**	**2/5/2018**	**2/6/2018**
Sample Depth:		**80-90 ft BGS**	**90-100 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Aroclor-1232 (PCB-1232)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	ug/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	ug/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	ug/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	ug/L	-	-	-	-	-	-	-	-	-	-
Aldrin	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	ug/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	ug/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	ug/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	ug/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	ug/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	ug/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	ug/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	ug/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	ug/L	-	-	-	-	-	-	-	-	-	-
Ethene	ug/L	-	-	-	-	-	-	-	-	-	-
Methane	ug/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	ug/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	ug/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	ug/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	ug/L	-	-	-	-	-	-	-	-	-	-
Chloride	ug/L	42000	73000	100000	100000	99000	95000	94000	93000	85000	75000
Cyanide (total)	ug/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	ug/L	-	-	-	-	-	-	-	-	-	-
Hardness	ug/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	ug/L	14 U	14 U	14 U	23 J	17 J	25 J	14 J	14 U	25 J	14 U
Nitrite (as N)	ug/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	ug/L	9100	19000	68000	68000	70000	72000	71000	78000	88000	85000
Sulfide (acid soluble)	ug/L	-	-	-	-	-	-	-	-	-	-

Notes:
J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:								**BH11-18**	**BH11-18**	**BH12-18**	**BH13-18**	**BH18-19**	**BH18-19**	**BH19-19**	**MW-102**
Sample ID:								**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**WG-38443-051818-GL-016**	**WG-38443-051818-GL-015**	**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**96-DV-03-S25**
Sample Date:								**7/31/2018**	**8/2/2018**	**5/18/2018**	**5/18/2018**	**1/14/2019**	**1/14/2019**	**1/14/2019**	**7/9/1996**
Sample Depth:								**30-34 ft BGS**	**38-43 ft BGS**	**30.5-34.5 ft BGS**	**30.5-34.5 ft BGS**	**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS Duplicate**	**15-19 ft BGS**	**20-30 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**OEPA**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Volatiles															
1,1,1-Trichloroethane	µg/L	200	800	213	51	0.23	14	0.72 J	0.24 UJ	0.23 U	0.27 J	0.42 J	0.50 J	0.24 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	-	0.076	213	1	1	1	0.13 U	0.13 UJ	0.32 U	0.32 U	0.13 U	0.13 U	0.13 U	10 U
1,1,2-Trichloroethane	µg/L	5	0.041	168	0	ND	ND	0.090 U	0.090 UJ	0.34 U	0.34 U	0.090 U	0.090 U	0.090 U	10 U
1,1-Dichloroethane	µg/L	-	2.8	213	28	0.18	1	0.17 U	0.17 UJ	0.25 UJ	0.30 J	0.17 U	0.17 U	0.17 U	10 U
1,1-Dichloroethene	µg/L	7	28	168	10	0.2	0.53	0.19 U	0.19 UJ	0.27 UJ	0.27 UJ	0.19 U	0.19 U	0.19 U	10 U
1,2,4-Trichlorobenzene	µg/L	70	0.4	168	1	0.34	0.34	0.26 U	0.26 UJ	0.27 UJ	0.27 UJ	0.26 U	0.26 U	0.26 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.00033	165	0	ND	ND	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.05	0.0075	165	1	0.036	0.036	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	-
1,2-Dichlorobenzene	µg/L	600	30	168	0	ND	ND	0.15 U	0.15 UJ	0.26 U	0.26 U	0.15 U	0.15 U	0.15 U	10 U
1,2-Dichloroethane	µg/L	5	0.17	213	0	ND	ND	0.21 U	0.21 UJ	0.30 U	0.30 U	0.21 U	0.21 U	0.21 U	10 U
1,2-Dichloroethene (total)	µg/L	-	-	48	0	ND	ND	-	-	-	-	-	-	-	10 U
1,2-Dichloropropane	µg/L	5	0.82	168	0	ND	ND	0.15 U	0.15 UJ	0.30 U	0.30 U	0.15 U	0.15 U	0.15 U	10 U
1,3-Dichlorobenzene	µg/L	-	-	168	0	ND	ND	0.15 U	0.15 UJ	0.32 U	0.32 U	0.15 U	0.15 U	0.15 U	10 U
1,4-Dichlorobenzene	µg/L	75	0.48	168	0	ND	ND	0.16 U	0.16 UJ	0.23 U	0.23 U	0.16 U	0.16 U	0.16 U	10 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	168	5	1.2	14	1.2 U	1.2 UJ	1.0 U	1.0 U	1.2 U	1.2 U	1.2 U	10 U
2-Hexanone	µg/L	-	3.8	168	1	0.85	0.85	0.54 U	0.54 UJ	1.2 U	1.2 U	0.54 U	0.54 U	0.54 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	630	168	1	0.76	0.76	0.42 U	0.42 UJ	0.71 U	0.71 U	0.42 U	0.42 U	0.42 U	10 U
Acetone	µg/L	-	1400	213	8	1.4	53	5.4 U	13 J	1.8 U	1.8 U	5.4 U	5.4 U	5.4 U	10 U
Benzene	µg/L	5	0.46	213	43	0.13	2600	0.13 U	0.33 J	0.28 U	0.28 U	0.13 U	0.13 U	0.13 U	10 U
Bromodichloromethane	µg/L	80	0.13	168	4	0.3	0.39	0.17 U	0.17 UJ	0.30 U	0.30 U	0.17 U	0.17 U	0.17 U	10 U
Bromoform	µg/L	80	3.3	213	0	ND	ND	0.76 UJ	0.76 UJ	0.43 U	0.43 U	0.76 UJ	0.76 UJ	0.76 UJ	10 U
Bromomethane (Methyl bromide)	µg/L	-	0.75	168	0	ND	ND	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 U	10 U
Carbon disulfide	µg/L	-	81	168	2	0.42	0.45	0.28 U	0.28 UJ	0.34 U	0.34 U	0.28 U	0.28 U	0.28 U	10 U
Carbon tetrachloride	µg/L	5	0.46	168	0	ND	ND	0.26 U	0.26 UJ	0.35 U	0.35 U	0.26 U	0.26 U	0.26 U	10 U
Chlorobenzene	µg/L	100	7.8	213	0	ND	ND	0.14 U	0.14 UJ	0.32 U	0.32 U	0.14 U	0.14 U	0.14 U	10 U
Chloroethane	µg/L	-	2100	213	1	22	22	0.83 U	0.83 UJ	0.41 UJ	0.41 UJ	0.83 U	0.83 U	0.83 U	22
Chloroform (Trichloromethane)	µg/L	80	0.22	168	35	0.17	6.6	0.13 U	0.13 UJ	0.31 UJ	0.31 UJ	0.13 U	0.13 U	0.13 U	10 U
Chloromethane (Methyl chloride)	µg/L	-	19	168	1	0.44	0.44	0.20 U	0.20 UJ	0.43 UJ	0.43 UJ	0.20 U	0.20 U	0.20 U	10 U
cis-1,2-Dichloroethene	µg/L	70	3.6	165	37	0.2	10	0.28 J	2.4 J	1.8 J	0.90 J	0.16 U	0.16 U	0.16 U	-
cis-1,3-Dichloropropene	µg/L	-	-	168	0	ND	ND	0.61 U	0.61 UJ	0.26 UJ	0.26 UJ	0.61 U	0.61 U	0.61 U	10 U
Cyclohexane	µg/L	-	1300	165	62	0.12	620	0.24 U	0.24 UJ	0.44 U	0.44 U	0.24 U	0.24 U	0.24 U	-
Dibromochloromethane	µg/L	80	0.87	168	0	ND	ND	0.39 U	0.39 UJ	0.25 UJ	0.25 UJ	0.39 U	0.39 U	0.39 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	-	20	165	0	ND	ND	0.35 U	0.35 UJ	0.50 UJ	0.50 UJ	0.35 U	0.35 U	0.35 U	-
Ethylbenzene	µg/L	700	1.5	168	48	0.11	2500	0.11 U	0.11 UJ	0.26 U	0.26 U	0.11 U	0.11 U	0.11 U	10 U
Isopropyl benzene	µg/L	-	45	165	30	0.36	120	0.090 U	0.090 UJ	0.21 U	0.21 U	0.090 U	0.090 U	0.090 U	-
m&p-Xylenes	µg/L	-	-	52	9	0.11	0.27	0.080 U	0.080 UJ	0.24 U	0.24 U	0.080 U	0.080 U	0.080 U	-
Methyl acetate	µg/L	-	2000	165	0	ND	ND	1.7 U	1.7 UJ	1.4 U	1.4 U	1.7 U	1.7 U	1.7 U	-
Methyl cyclohexane	µg/L	-	-	165	33	0.35	220	0.33 U	0.33 UJ	0.45 U	0.45 U	0.33 U	0.33 U	0.33 U	-
Methyl tert butyl ether (MTBE)	µg/L	-	14	165	0	ND	ND	0.070 U	0.070 UJ	0.27 U	0.27 U	0.070 U	0.070 U	0.070 U	-
Methylene chloride	µg/L	5	11	213	6	0.5	6	2.6 U	2.6 UJ	0.53 UJ	0.53 UJ	2.6 U	2.6 U	2.6 U	6 J[a]
o-Xylene	µg/L	-	19	52	2	0.13	0.14	0.090 U	0.090 UJ	0.28 U	0.28 U	0.090 U	0.090 U	0.090 U	-
Styrene	µg/L	100	120	213	0	ND	ND	0.10 U	0.10 UJ	0.23 U	0.23 U	0.10 U	0.10 U	0.10 U	10 U
Tetrachloroethene	µg/L	5	4.1	213	27	0.15	1.6	0.15 U	0.15 UJ	0.63 J	0.30 U	0.15 U	0.15 U	0.15 U	10 U
Toluene	µg/L	1000	110	213	107	0.13	3600	0.14 U	0.15 J	0.23 U	0.23 U	0.14 U	0.14 U	0.14 J	15
trans-1,2-Dichloroethene	µg/L	100	36	165	15	0.21	1.7	0.19 U	0.21 J	0.29 UJ	0.29 UJ	0.19 U	0.19 U	0.19 U	-
trans-1,3-Dichloropropene	µg/L	-	-	168	0	ND	ND	0.67 U	0.67 UJ	0.31 UJ	0.31 UJ	0.67 U	0.67 U	0.67 U	10 U
Trichloroethene	µg/L	5	0.28	213	94	0.17	24	12[ab]	2.9 J[b]	11[ab]	7.9[ab]	0.10 U	0.10 U	0.10 U	10 U
Trichlorofluoromethane (CFC-11)	µg/L	-	520	165	0	ND	ND	0.45 U	0.45 UJ	0.50 U	0.50 U	0.45 U	0.45 U	0.45 U	-
Trifluorotrichloroethane (CFC-113)	µg/L	-	1000	165	0	ND	ND	0.41 U	0.41 UJ	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	-
Vinyl chloride	µg/L	2	0.019	213	1	0.32	0.32	0.20 U	0.32 J[b]	0.45 UJ	0.45 UJ	0.20 U	0.20 U	0.20 U	10 U
Xylenes (total)	µg/L	10000	19	213	47	0.15	13000	0.15 U	0.15 UJ	0.24 U	0.24 U	0.15 U	0.15 U	0.15 U	4 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:								**BH11-18**	**BH11-18**	**BH12-18**	**BH13-18**	**BH18-19**	**BH18-19**	**BH19-19**	**MW-102**
Sample ID:								**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**WG-38443-051818-GL-016**	**WG-38443-051818-GL-015**	**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**96-DV-03-S25**
Sample Date:								**7/31/2018**	**8/2/2018**	**5/18/2018**	**5/18/2018**	**1/14/2019**	**1/14/2019**	**1/14/2019**	**7/9/1996**
Sample Depth:								**30-34 ft BGS**	**38-43 ft BGS**	**30.5-34.5 ft BGS**	**30.5-34.5 ft BGS**	**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS**	**15-19 ft BGS**	**20-30 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**OEPA**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Semi-Volatiles															
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	71	74	0	ND	ND	0.56 U	-	0.52 U	0.56 U	0.53 U	0.54 U	0.56 U	-
2,4,5-Trichlorophenol	µg/L	-	120	77	0	ND	ND	2.0 U	-	1.9 U	2.0 U	1.9 U	1.9 U	2.0 U	25 U
2,4,6-Trichlorophenol	µg/L	-	1.2	77	0	ND	ND	1.8 U	-	1.7 U	1.8 U	1.7 U	1.8 U	1.8 U	10 U
2,4-Dichlorophenol	µg/L	-	4.6	77	0	ND	ND	0.27 U	-	0.25 U	0.26 U	0.25 U	0.26 U	0.26 U	10 U
2,4-Dimethylphenol	µg/L	-	36	77	2	2.1	7	0.53 U	-	0.49 U	0.52 U	0.50 U	0.51 U	0.52 U	10 U
2,4-Dinitrophenol	µg/L	-	3.9	77	0	ND	ND	6.3 U	-	5.9 U	6.3 U	6.0 U	6.1 U	6.3 U	25 U
2,4-Dinitrotoluene	µg/L	-	0.24	77	0	ND	ND	2.1 U	-	2.0 U	2.1 U	2.0 U	2.0 U	2.1 U	10 U
2,6-Dinitrotoluene	µg/L	-	0.049	77	0	ND	ND	2.2 U	-	2.0 U	2.1 U	2.1 U	2.1 U	2.1 U	10 U
2-Chloronaphthalene	µg/L	-	75	77	0	ND	ND	0.49 U	-	0.46 U	0.49 U	0.47 U	0.47 U	0.49 U	10 U
2-Chlorophenol	µg/L	-	9.1	77	0	ND	ND	0.28 U	-	0.26 U	0.28 U	0.27 U	0.27 U	0.28 U	10 U
2-Methylnaphthalene	µg/L	-	3.6	77	8	2.2	190	0.11 U	-	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	10 U
2-Methylphenol	µg/L	-	93	77	0	ND	ND	0.21 U	-	0.20 U	0.21 U	0.20 U	0.20 U	0.21 U	10 U
2-Nitroaniline	µg/L	-	19	77	0	ND	ND	0.52 U	-	0.49 U	0.52 U	0.50 U	0.50 U	0.52 U	25 U
2-Nitrophenol	µg/L	-	-	77	0	ND	ND	0.58 U	-	0.54 U	0.57 U	0.55 U	0.55 U	0.57 U	10 U
3&4-Methylphenol	µg/L	-	-	37	0	ND	ND	0.19 U	-	0.18 U	0.19 U	0.19 U	0.19 U	0.19 U	-
3,3'-Dichlorobenzidine	µg/L	-	0.13	77	0	ND	ND	1.2 U	-	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U	10 U
3-Nitroaniline	µg/L	-	-	77	0	ND	ND	0.58 U	-	0.54 U	0.57 U	0.55 U	0.55 U	0.57 U	25 U
4,6-Dinitro-2-methylphenol	µg/L	-	0.15	77	0	ND	ND	2.9 U	-	2.7 U	2.8 U	2.7 U	2.8 U	2.8 U	25 U
4-Bromophenyl phenyl ether	µg/L	-	-	77	0	ND	ND	0.51 U	-	0.48 U	0.50 U	0.48 U	0.49 U	0.50 U	10 U
4-Chloro-3-methylphenol	µg/L	-	140	77	0	ND	ND	0.30 U	-	0.28 U	0.30 U	0.29 U	0.29 U	0.30 U	10 U
4-Chloroaniline	µg/L	-	0.37	77	0	ND	ND	0.32 U	-	0.30 U	0.32 U	0.31 U	0.31 U	0.32 U	10 U
4-Chlorophenyl phenyl ether	µg/L	-	-	77	0	ND	ND	0.56 U	-	0.52 U	0.56 U	0.53 U	0.54 U	0.56 U	10 U
4-Methylphenol	µg/L	-	190	40	1	6.3	6.3	-	-	-	-	-	-	-	10 U
4-Nitroaniline	µg/L	-	3.8	77	0	ND	ND	0.94 U	-	0.87 U	0.93 U	0.89 U	0.90 U	0.93 U	25 U
4-Nitrophenol	µg/L	-	-	77	0	ND	ND	2.2 U	-	2.1 U	2.2 U	2.1 U	2.1 U	2.2 U	25 U
Acenaphthene	µg/L	-	53	77	9	0.26	3	0.18 U	-	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U	10 U
Acenaphthylene	µg/L	-	-	77	3	0.15	0.7	0.13 U	-	0.12 U	0.13 U	0.12 U	0.12 U	0.13 U	10 U
Acetophenone	µg/L	-	190	74	0	ND	ND	0.37 U	-	0.35 U	0.37 U	0.36 U	0.36 U	0.37 U	-
Anthracene	µg/L	-	180	77	2	0.25	1.1	0.14 U	-	0.13 U	0.14 U	0.13 U	0.13 U	0.14 U	10 U
Atrazine	µg/L	3	0.3	74	0	ND	ND	0.35 U	-	0.32 U	0.34 U	0.92 U	0.93 U	0.96 U	-
Benzaldehyde	µg/L	-	19	74	0	ND	ND	0.40 U	-	0.37 U	0.39 U	0.74 U	0.74 U	0.77 U	-
Benzo(a)anthracene	µg/L	-	0.03	77	2	0.14	0.24	0.17 U	-	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U	10 U
Benzo(a)pyrene	µg/L	0.2	0.025	77	1	0.36	0.36	0.18 U	-	0.16 U	0.17 U	0.17 U	0.17 U	0.17 U	10 U
Benzo(b)fluoranthene	µg/L	-	0.25	77	1	0.42	0.42	0.16 U	-	0.15 U	0.16 U	0.15 U	0.15 U	0.16 U	10 U
Benzo(g,h,i)perylene	µg/L	-	-	77	1	0.31	0.31	0.18 U	-	0.17 U	0.18 U	0.17 U	0.17 U	0.18 U	10 U
Benzo(k)fluoranthene	µg/L	-	2.5	77	1	0.16	0.16	0.14 U	-	0.13 U	0.14 U	0.14 U	0.14 U	0.14 U	10 U
Biphenyl (1,1-Biphenyl)	µg/L	-	0.083	74	1	1.6	1.6	0.50 U	-	0.47 U	0.50 U	0.48 U	0.48 U	0.50 U	-
bis(2-Chloroethoxy)methane	µg/L	-	5.9	77	0	ND	ND	0.46 U	-	0.43 U	0.46 U	0.44 U	0.45 U	0.46 U	10 U
bis(2-Chloroethyl)ether	µg/L	-	0.014	77	0	ND	ND	0.41 U	-	0.38 U	0.41 U	0.39 U	0.39 U	0.41 U	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	5.6	77	13	0.85	4.1	2.3 U	-	2.1 U	2.2 U	2.2 U	2.2 U	2.2 U	10 U
Butyl benzylphthalate (BBP)	µg/L	-	16	77	0	ND	ND	0.68 U	-	0.63 U	0.67 U	0.65 U	0.65 U	0.67 U	10 U
Caprolactam	µg/L	-	990	74	3	0.27	9.6	0.20 U	-	0.19 U	0.20 U	0.91 U	0.92 U	0.94 U	-
Carbazole	µg/L	-	-	74	1	0.27	0.27	0.50 U	-	0.47 U	0.49 U	0.48 U	0.48 U	0.49 U	-
Chrysene	µg/L	-	25	77	2	0.14	0.22	0.19 U	-	0.18 U	0.19 U	0.18 U	0.18 U	0.19 U	10 U
Dibenz(a,h)anthracene	µg/L	-	0.025	77	0	ND	ND	0.15 U	-	0.042 U	0.045 U	0.15 U	0.15 U	0.15 U	10 U
Dibenzofuran	µg/L	-	0.79	77	4	0.5	2.9	0.57 U	-	0.53 U	0.57 U	0.54 U	0.55 U	0.57 U	10 U
Diethyl phthalate	µg/L	-	1500	77	0	ND	ND	3.9 U	-	3.6 U	3.9 U	3.7 U	3.7 U	3.9 U	10 U
Dimethyl phthalate	µg/L	-	-	77	0	ND	ND	0.53 U	-	0.49 U	0.52 U	0.50 U	0.50 U	0.52 U	10 U
Di-n-butylphthalate (DBP)	µg/L	-	90	77	0	ND	ND	1.8 U	-	1.7 U	1.8 U	1.8 U	1.8 U	1.8 U	10 U
Di-n-octyl phthalate (DnOP)	µg/L	-	20	77	1	3	3	0.84 U	-	0.78 U	0.83 U	0.80 U	0.80 U	0.83 U	10 U
Fluoranthene	µg/L	-	80	77	2	0.22	0.45	0.16 U	-	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U	10 U
Fluorene	µg/L	-	29	77	5	0.14	5.4	0.17 U	-	0.16 U	0.17 U	0.16 U	0.17 U	0.17 U	10 U

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Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:								**BH11-18**	**BH11-18**	**BH12-18**	**BH13-18**	**BH18-19**	**BH18-19**	**BH19-19**	**MW-102**
Sample ID:								**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**WG-38443-051818-GL-016**	**WG-38443-051818-GL-015**	**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**96-DV-03-S25**
Sample Date:								**7/31/2018**	**8/2/2018**	**5/18/2018**	**5/18/2018**	**1/14/2019**	**1/14/2019**	**1/14/2019**	**7/9/1996**
Sample Depth:								**30-34 ft BGS**	**38-43 ft BGS**	**30.5-34.5 ft BGS**	**30.5-34.5 ft BGS**	**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS**	**15-19 ft BGS**	**20-30 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**OEPA**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Semi-Volatiles (cont'd)															
Hexachlorobenzene	µg/L	1	0.0098	77	0	ND	ND	0.16 U	-	0.15 U	0.16 U	0.16 U	0.16 U	0.16 U	10 U
Hexachlorobutadiene	µg/L	-	0.14	77	0	ND	ND	0.55 U	-	0.52 U	0.55 U	0.53 U	0.53 U	0.55 U	10 U
Hexachlorocyclopentadiene	µg/L	50	0.041	72	0	ND	ND	1.8 U	-	1.7 U	1.8 U	1.7 U	1.7 U	1.8 U	10 U
Hexachloroethane	µg/L	-	0.33	77	0	ND	ND	0.40 U	-	0.38 U	0.40 U	0.38 U	0.39 U	0.40 U	10 U
Indeno(1,2,3-cd)pyrene	µg/L	-	0.25	77	1	0.32	0.32	0.14 U	-	0.13 U	0.14 U	0.13 U	0.13 U	0.14 U	10 U
Isophorone	µg/L	-	78	77	0	ND	ND	0.33 U	-	0.31 U	0.33 U	0.31 U	0.32 U	0.33 U	10 U
Naphthalene	µg/L	-	0.17	77	11	0.13	250	0.13 J	-	0.10 U	0.11 U	0.11 U	0.11 U	0.11 U	10 U
Nitrobenzene	µg/L	-	0.14	77	0	ND	ND	0.52 U	-	0.49 U	0.52 U	0.50 U	0.50 U	0.52 U	10 U
N-Nitrosodi-n-propylamine	µg/L	-	0.011	77	0	ND	ND	0.26 U	-	0.24 U	0.26 U	0.25 U	0.25 U	0.26 U	10 U
N-Nitrosodiphenylamine	µg/L	-	12	77	0	ND	ND	0.45 U	-	0.42 U	0.44 U	0.43 U	0.43 U	0.44 U	10 U
Pentachlorophenol	µg/L	1	0.041	77	0	ND	ND	3.2 U	-	3.0 U	3.1 U	3.0 U	3.0 U	3.1 U	25 U
Phenanthrene	µg/L	-	-	77	7	0.23	4	0.17 U	-	0.16 U	0.17 U	0.16 U	0.16 U	0.17 U	10 U
Phenol	µg/L	-	580	77	0	ND	ND	0.13 U	-	0.12 U	0.13 U	0.12 U	0.13 U	0.13 U	10 U
Pyrene	µg/L	-	12	77	2	0.24	0.37	0.18 U	-	0.17 U	0.18 U	0.17 U	0.17 U	0.18 U	10 U
Metals															
Aluminum	µg/L	-	2000	98	63	36	170000	63	-	34 U	1300	80	36 J	190	183 B
Aluminum (dissolved)	µg/L	-	2000	59	12	35	35000	34 U	-	34 U	34 U	34 U	34 U	44 J	-
Antimony	µg/L	6	0.78	98	21	0.23	5.7	0.66 J	-	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	3 U
Antimony (dissolved)	µg/L	6	0.78	59	10	0.23	1.9	0.57 U	-	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	-
Arsenic	µg/L	10	0.052	162	123	0.51	860	0.75 U	-	0.75 U	**3.9 J[b]**	**2.2 J[b]**	**2.5 J[b]**	**3.2 J[b]**	4 U
Arsenic (dissolved)	µg/L	10	0.052	82	48	0.48	240	0.75 U	-	0.75 U	0.75 U	**2.2 J[b]**	**2.7 J[b]**	**2.8 J[b]**	-
Barium	µg/L	2000	380	108	99	69	21000	160	-	150	160	140	130	140	84.4 B
Barium (dissolved)	µg/L	2000	380	59	59	73	8300	160	-	150	110	130	140	140	-
Beryllium	µg/L	4	2.5	98	18	0.31	12	0.72 J	-	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	1 U
Beryllium (dissolved)	µg/L	4	2.5	59	8	0.35	3	0.41 J	-	0.31 U	0.31 U	0.31 U	0.46 J	0.31 U	-
Cadmium	µg/L	5	0.92	108	14	0.21	4.4	0.21 U	-	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1 U
Cadmium (dissolved)	µg/L	5	0.92	59	6	0.22	0.78	0.21 U	-	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	-
Calcium	µg/L	-	-	98	98	42000	3000000	140000	-	130000	170000	100000	100000	130000	87000
Calcium (dissolved)	µg/L	-	-	59	59	41000	450000	140000	-	120000	120000	100000	110000	130000	-
Chromium	µg/L	100	-	108	41	1.6	510	2.1 U	-	0.98 U	14	0.98 U	0.98 U	0.98 U	1 U
Chromium (dissolved)	µg/L	100	-	59	5	3	93	1.54 U	-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	-
Cobalt	µg/L	-	0.6	98	49	0.2	190	**1.2[b]**	-	**0.91 J[b]**	**5.7[b]**	0.19 U	0.19 U	0.46 J	1 U
Cobalt (dissolved)	µg/L	-	0.6	59	40	0.2	32	**1.1[b]**	-	**0.88 J[b]**	**3.8[b]**	0.19 U	0.19 U	0.42 J	-
Copper	µg/L	1300	80	98	41	1.9	420	1.7 U	-	2.9	7.8	1.7 U	1.7 U	1.7 U	3.1 B
Copper (dissolved)	µg/L	1300	80	59	12	1.7	66	1.7 U	-	3.0	5.4	1.7 U	1.7 U	1.7 J	-
Iron	µg/L	-	1400	98	84	62	500000	190	-	780	**4700[b]**	130	79 J	350	332
Iron (dissolved)	µg/L	-	1400	67	44	48	65000	47 U	-	660	860	47 U	47 U	140	-
Lead	µg/L	15	15	162	103	0.22	330	0.45 U	-	0.45 U	3.0	0.45 U	0.45 U	0.45 U	1.1 B
Lead (dissolved)	µg/L	15	15	82	22	0.33	53	0.45 U	-	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	-
Magnesium	µg/L	-	-	98	98	20300	1100000	41000	-	42000	56000	32000	30000	43000	25000
Magnesium (dissolved)	µg/L	-	-	59	59	19000	160000	41000	-	39000	36000	30000	32000	43000	-
Manganese	µg/L	-	43	98	97	5.7	8800	**61[b]**	-	**200[b]**	**430[b]**	7.9	5.7	33	**107[b]**
Manganese (dissolved)	µg/L	-	43	59	57	5.6	1600	**60[b]**	-	**190[b]**	**260[b]**	5.6	5.9	31	-
Manganese 2+	µg/L	-	-	18	11	28	3076	-	-	-	-	-	-	-	-
Mercury	µg/L	2	0.063	103	9	0.14	0.39	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.2 U
Mercury (dissolved)	µg/L	2	0.063	59	0	ND	ND	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-
Nickel	µg/L	-	39	98	67	1.1	480	2.2	-	4.0	**63[b]**	1.5 U	1.5 U	1.8 J	2.2 B
Nickel (dissolved)	µg/L	-	39	59	33	1.5	78	2.3	-	4.1	**44[b]**	1.5 U	1.5 U	1.5 U	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:								BH11-18	BH11-18	BH12-18	BH13-18	BH18-19	BH18-19	BH19-19	MW-102
Sample ID:								GW-38443-073118-JC-018	GW-38443-080218-JC-019	WG-38443-051818-GL-016	WG-38443-051818-GL-015	GW-38443-011419-JC-001	GW-38443-011419-JC-002	GW-38443-011419-JC-003	96-DV-03-S25
Sample Date:								7/31/2018	8/2/2018	5/18/2018	5/18/2018	1/14/2019	1/14/2019	1/14/2019	7/9/1996
Sample Depth:								30-34 ft BGS	38-43 ft BGS	30.5-34.5 ft BGS	30.5-34.5 ft BGS	14.5-18.5 ft BGS	14.5-18.5 ft BGS Duplicate	15-19 ft BGS	20-30 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	OEPA
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Metals (cont'd)															
Potassium	µg/L	-	-	98	98	2020	52000	8000	-	8500	7800	5400	5100	6800	3390 B
Potassium (dissolved)	µg/L	-	-	59	59	1960	15000	8200	-	8100	7100	5100	5400	6700	-
Selenium	µg/L	50	10	103	66	1.1	60	11[b]	-	4.8 J	7.3	2.8 J	2.7 J	3.0 J	4 U
Selenium (dissolved)	µg/L	50	10	59	43	1.5	60	10	-	5.0	6.6	2.6 J	3.1 J	3.3 J	-
Silver	µg/L	-	9.4	103	13	0.058	2	0.053 U	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	1 U
Silver (dissolved)	µg/L	-	9.4	59	5	0.059	0.44	0.053 U	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-
Sodium	µg/L	-	-	98	98	11000	190000	170000	-	120000	130000	62000	58000	26000	12400
Sodium (dissolved)	µg/L	-	-	59	59	12400	200000	180000	-	110000	120000	58000	62000	24000	-
Thallium	µg/L	2	0.02	98	19	0.22	5.4	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	4 U
Thallium (dissolved)	µg/L	2	0.02	59	7	0.21	1.5	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-
Vanadium	µg/L	-	8.6	98	42	0.91	470	0.82 U	-	0.82 U	3.8 J	0.82 U	0.82 U	0.82 U	1 U
Vanadium (dissolved)	µg/L	-	8.6	59	10	0.82	84	0.82 U	-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	-
Zinc	µg/L	-	600	98	47	5.4	6000	18 J	-	15 U	390	15 U	15 U	15 U	9.5 B
Zinc (dissolved)	µg/L	-	600	59	40	18	6600	18 J	-	15 U	280	15 U	15 U	15 U	-
PCBs															
Aroclor-1016 (PCB-1016)	µg/L	-	0.14	64	0	ND	ND	0.057 U	-	0.068 U	0.062 U	0.054 U	0.055 U	0.054 U	1 U
Aroclor-1221 (PCB-1221)	µg/L	-	0.0047	64	0	ND	ND	0.058 U	-	0.070 U	0.063 U	0.055 U	0.056 U	0.055 U	2 U
Aroclor-1232 (PCB-1232)	µg/L	-	0.0047	64	0	ND	ND	0.076 U	-	0.090 U	0.082 U	0.071 U	0.073 U	0.072 U	1 U
Aroclor-1242 (PCB-1242)	µg/L	-	0.0078	64	0	ND	ND	0.078 U	-	0.093 U	0.084 U	0.073 U	0.075 U	0.074 U	1 U
Aroclor-1248 (PCB-1248)	µg/L	-	0.0078	64	1	0.39	0.39	0.051 U	-	0.061 U	0.056 U	0.048 U	0.049 U	0.049 U	1 U
Aroclor-1254 (PCB-1254)	µg/L	-	0.0078	64	0	ND	ND	0.041 U	-	0.049 U	0.044 U	0.038 U	0.039 U	0.039 U	1 U
Aroclor-1260 (PCB-1260)	µg/L	-	0.0078	64	1	0.082	0.082	0.047 U	-	0.056 U	0.051 U	0.044 U	0.045 U	0.045 U	1 U
Pesticides															
4,4'-DDD	µg/L	-	0.0063	42	0	ND	ND	0.027 U	-	0.065 U	0.0059 U	0.0051 U	0.0052 U	0.0051 U	0.1 U
4,4'-DDE	µg/L	-	0.046	42	0	ND	ND	0.022 U	-	0.052 U	0.0048 U	0.0041 U	0.0042 U	0.0042 U	0.1 U
4,4'-DDT	µg/L	-	0.23	42	0	ND	ND	0.024 U	-	0.059 UJ	0.0053 UJ	0.0046 U	0.0047 U	0.0047 U	0.1 U
Aldrin	µg/L	-	0.00092	42	0	ND	ND	0.012 U	-	0.029 U	0.0027 U	0.0023 U	0.0024 U	0.0023 U	0.05 U
alpha-BHC	µg/L	-	0.0072	42	1	0.038	0.038	0.010 U	-	0.024 U	0.0022 U	0.0019 U	0.0020 U	0.0019 U	0.05 U
alpha-Chlordane	µg/L	-	-	42	0	ND	ND	0.016 U	-	0.039 U	0.0036 U	0.0031 U	0.0031 U	0.0031 U	0.05 U
beta-BHC	µg/L	-	0.025	42	0	ND	ND	0.023 U	-	0.056 U	0.0051 U	0.0044 U	0.0045 U	0.0045 U	0.05 U
delta-BHC	µg/L	-	-	42	1	0.011	0.011	0.022 U	-	0.052 U	0.0048 U	0.0041 U	0.0042 U	0.0042 U	0.05 U
Dieldrin	µg/L	-	0.0018	42	1	0.013	0.013	0.012 U	-	0.028 U	0.0026 U	0.0022 U	0.0023 U	0.0022 U	0.1 U
Endosulfan I	µg/L	-	-	42	0	ND	ND	0.019 U	-	0.045 U	0.0041 U	0.0036 U	0.0036 U	0.0036 U	0.05 U
Endosulfan II	µg/L	-	-	42	0	ND	ND	0.012 U	-	0.028 U	0.0026 U	0.0022 U	0.0023 U	0.0022 U	0.1 U
Endosulfan sulfate	µg/L	-	11	42	0	ND	ND	0.019 U	-	0.045 U	0.0041 U	0.0036 U	0.0036 U	0.0036 U	0.1 U
Endrin	µg/L	2	0.23	42	0	ND	ND	0.013 U	-	0.030 U	0.0028 U	0.0024 U	0.0025 U	0.0024 U	0.1 U
Endrin aldehyde	µg/L	-	-	42	0	ND	ND	0.023 U	-	0.056 U	0.0051 U	0.0044 U	0.0045 U	0.0045 U	0.1 U
Endrin ketone	µg/L	-	-	42	0	ND	ND	0.020 U	-	0.049 U	0.0044 U	0.0038 U	0.0039 U	0.0039 U	0.1 U
gamma-BHC (lindane)	µg/L	0.2	0.042	42	1	0.016	0.016	0.013 U	-	0.030 U	0.0028 U	0.0024 U	0.0025 U	0.0024 U	0.05 U
gamma-Chlordane	µg/L	-	-	42	0	ND	ND	0.026 U	-	0.061 U	0.0056 U	0.0048 U	0.0049 U	0.0049 U	0.05 U
Heptachlor	µg/L	0.4	0.0014	42	3	0.0085	0.0095	0.017 U	-	0.040 U	0.0037 U	0.0032 U	0.0032 U	0.0032 U	0.0092 PJ[b]
Heptachlor epoxide	µg/L	0.2	0.0014	42	0	ND	ND	0.013 U	-	0.032 U	0.0029 U	0.0025 U	0.0025 U	0.0025 U	0.05 U
Methoxychlor	µg/L	40	3.7	42	0	ND	ND	0.024 U	-	0.057 UJ	0.0052 UJ	0.0045 U	0.0046 U	0.0046 U	0.5 U
Toxaphene	µg/L	3	0.071	42	0	ND	ND	0.30 U	-	0.71 U	0.065 U	0.056 U	0.057 U	0.056 U	5 U
Gases															
Ethane	µg/L	-	-	26	4	1.4	3.4	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	26	0	ND	ND	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	26	21	0.19	8200	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:								**BH11-18**	**BH11-18**	**BH12-18**	**BH13-18**	**BH18-19**	**BH18-19**	**BH19-19**	**MW-102**
Sample ID:								**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**WG-38443-051818-GL-016**	**WG-38443-051818-GL-015**	**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**	**96-DV-03-S25**
Sample Date:								**7/31/2018**	**8/2/2018**	**5/18/2018**	**5/18/2018**	**1/14/2019**	**1/14/2019**	**1/14/2019**	**7/9/1996**
Sample Depth:								**30-34 ft BGS**	**38-43 ft BGS**	**30.5-34.5 ft BGS**	**30.5-34.5 ft BGS**	**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS**	**15-19 ft BGS**	**20-30 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**OEPA**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Herbicides															
2,4,5-T	µg/L	-	16	12	0	ND	ND	0.57 UJ	-	0.57 U	0.57 U	0.57 UJ	0.57 U	R	-
2,4,5-TP (Silvex)	µg/L	50	11	34	0	ND	ND	0.43 U	-	0.43 U	0.43 U	0.43 UJ	0.43 U	R	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	70	17	34	0	ND	ND	2.2 U	-	2.2 U	2.2 U	2.2 UJ	2.2 U	R	-
General Chemistry															
Alkalinity, total (as CaCO3)	µg/L	-	-	26	26	194000	598000	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	8	0	ND	ND	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	77	77	19500	370000	330000	-	180000	220000	84000	84000	35000	-
Cyanide (total)	µg/L	200	0.15	25	1	9.2	9.2	6 U	-	6 U	6 U	6 U	6 U	6 U	3 U
Dissolved organic carbon (DOC)	µg/L	-	-	18	18	1000	8000	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	18	18	224000	599000	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	10000	3200	77	62	93	13000	**4600[b]**	-	1700	**3700[b]**	**5900[b]**	**6000[b]**	**9400[b]**	-
Nitrite (as N)	µg/L	1000	200	69	18	14	260	14 U	-	14 U	44 J	14 U	14 U	14 U	-
Sulfate	µg/L	-	-	77	74	1200	140000	51000	-	56000	57000	29000	30000	34000	-
Sulfide (acid soluble)	µg/L	-	-	18	0	ND	ND	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	8	5	1000	5000	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102
Sample ID:		MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	GW-38443-100308-GL-018	GW-38443-072309-GL-011	GW-38443-051115-GL-002	GW-38443-051115-GL-003
Sample Date:		1/6/1998	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	10/3/2008	7/23/2009	5/11/2015	5/11/2015
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS Duplicate
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	U	U	U	U	U	U	U	U	U	U	0.38 J	0.40 J	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	U	U	U	U	U	U	U	U	U	U	0.22 J	0.32 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	U	U	U	U	U	U	U	U	U	U	-	-	-	-
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Acetone	µg/L	U	U	U	U	U	U	U	U	U	U	10 UJ	10 U	10 U	10 U
Benzene	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Carbon disulfide	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	1.0 U
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	U	U	3.3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	U	U	1.6 J	U	U	U	U	U	U	U	1.0 U	0.37 J	1.0 U	0.31 J
Toluene	µg/L	U	6.9	0.9 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Trichloroethene	µg/L	U	**0.66 J[b]**	**0.7 J[b]**	U	U	U	U	U	U	U	**1.9[b]**	**2.4[b]**	**1.8[b]**	**1.9[b]**
Trichlorofluoromethane (CFC-11)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	2.0 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102
Sample ID:		MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	GW-38443-100308-GL-018	GW-38443-072309-GL-011	GW-38443-051115-GL-002	GW-38443-051115-GL-003
Sample Date:		1/6/1998	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	10/3/2008	7/23/2009	5/11/2015	5/11/2015
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS Duplicate
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**														
Semi-Volatiles															
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-	5.7 J	5.0 U	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**
Sample ID:		**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**GW-38443-100308-GL-018**	**GW-38443-072309-GL-011**	**GW-38443-051115-GL-002**	**GW-38443-051115-GL-003**
Sample Date:		**1/6/1998**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**	**8/2/2005**	**10/3/2008**	**7/23/2009**	**5/11/2015**	**5/11/2015**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS Duplicate**
Sampling Company:		**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**														
Semi-Volatiles (cont'd)															
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-	10 UJ	10 U	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Metals															
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-	125 J	200 U	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	200 U	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	2.0 U	-	-
Arsenic	µg/L	U	U	U	-	-	-	-	-	-	-	**0.56 J[b]**	**0.93 J[b]**	-	-
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	**0.66 J[b]**	-	-
Barium	µg/L	U	U	U	-	-	-	-	-	-	-	167 J	154 J	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	153 J	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-
Cadmium	µg/L	U	U	U	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-	108000	102000	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	101000	-	-
Chromium	µg/L	69	U	24	-	-	-	-	-	-	-	10.0 U	10.0 U	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-	25.0 U	25.0 U	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	25.0 U	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-	235	268	-	-
Iron (dissolved)	µg/L	-	320	640	-	-	-	-	-	-	-	-	100 U	-	-
Lead	µg/L	U	U	U	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-	30000	29600	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	29300	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-	25.6	33.7	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	22.8	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-	-	250 U	-	-
Mercury	µg/L	U	U	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	0.20 U	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-	40.0 U	40.0 U	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	40.0 U	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102
Sample ID:		MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	GW-38443-100308-GL-018	GW-38443-072309-GL-011	GW-38443-051115-GL-002	GW-38443-051115-GL-003
Sample Date:		1/6/1998	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	10/3/2008	7/23/2009	5/11/2015	5/11/2015
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS Duplicate
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**														
Metals (cont'd)															
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-	3780 J	3690 J	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	3640 J	-	-
Selenium	µg/L	U	U	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	-
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-
Silver	µg/L	U	U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-	38500	41500	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	41500	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-	20.0 U	20.0 U	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	20.0 U	-	-
PCBs															
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	-
Pesticides															
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 UJ	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-	0.10 U	0.10 U	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-
Gases															
Ethane	µg/L	-	U	U	-	-	-	-	-	-	-	-	0.50 U	-	-
Ethene	µg/L	-	U	U	-	-	-	-	-	-	-	-	0.50 U	-	-
Methane	µg/L	-	U	0.7	-	-	-	-	-	-	-	-	0.50 U	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**
Sample ID:		**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**GW-38443-100308-GL-018**	**GW-38443-072309-GL-011**	**GW-38443-051115-GL-002**	**GW-38443-051115-GL-003**
Sample Date:		**1/6/1998**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**	**8/2/2005**	**10/3/2008**	**7/23/2009**	**5/11/2015**	**5/11/2015**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS Duplicate**
Sampling Company:		**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**														
Herbicides															
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-
General Chemistry															
Alkalinity, total (as CaCO3)	µg/L	-	350000	280000	-	-	-	-	-	-	-	-	316000	-	-
Ammonia-N	µg/L	-	U	U	-	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	27100	40800	-	-	-	-	-	-	-	-	82200	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	10 U	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-	-	8000	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-	-	376000	-	-
Nitrate (as N)	µg/L	-	4300[b]	7100[b]	-	-	-	-	-	-	-	-	2500	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-	-	100 U	-	-
Sulfate	µg/L	-	44800	50100	-	-	-	-	-	-	-	-	49100	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-	-	3000 U	-	-
Total organic carbon (TOC)	µg/L	-	U	1000	-	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-104
Sample ID:		96-DV-03-S24	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	GW-38443-091108-NZ-015	GW-38443-072309-GL-010	GW-38443-051115-GL-004	96-DV-03-S22
Sample Date:		7/9/1996	1/6/1998	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	9/11/2008	7/23/2009	5/11/2015	7/9/1996
Sample Depth:		22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	N/A
Sampling Company:		OEPA	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	OEPA
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	0.41 J	0.41 J	1.0 U	10 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	U	1 J[b]	U	U	U	U	U	U	U	U	1.0 UJ	1.0 UJ	1.0 U	10 U
1,1,2-Trichloroethane	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
1,1-Dichloroethane	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	0.37 J	0.27 J	0.48 J	10 U
1,1-Dichloroethene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
1,2,4-Trichlorobenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	10 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,2-Dichlorobenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloroethane	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
1,2-Dichloroethene (total)	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	-	-	-	10 U
1,2-Dichloropropane	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
1,3-Dichlorobenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
1,4-Dichlorobenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	10 U	10 U	10 U	10 U
Benzene	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
Bromodichloromethane	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
Bromoform	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
Bromomethane (Methyl bromide)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 UJ	10 U
Carbon disulfide	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	10 U
Carbon tetrachloride	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
Chlorobenzene	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
Chloroethane	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
Chloroform (Trichloromethane)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
Chloromethane (Methyl chloride)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.44 J	1.0 U	1.0 U	10 U
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.38 J	-
cis-1,3-Dichloropropene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	10 U
Cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Dibromochloromethane	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Ethylbenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	10 U
Isopropyl benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	-	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
Methyl cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	-
Methylene chloride	µg/L	10 U	U	U	2.2 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	10 U
Tetrachloroethene	µg/L	10 U	U	U	0.5 J	U	U	U	U	U	U	U	0.35 J	0.42 J	1.0 U	10 U
Toluene	µg/L	10 U	0.36 J	6.7	0.7 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
trans-1,3-Dichloropropene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	10 U
Trichloroethene	µg/L	10 U	3.2[b]	5.1[ab]	4[b]	8[ab]	5[b]	U	U	U	U	U	1.5[b]	0.88 J[b]	0.54 J[b]	10 U
Trichlorofluoromethane (CFC-11)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Trifluorotrichloroethane (CFC-113)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Vinyl chloride	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	10 U
Xylenes (total)	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	10 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-104**
Sample ID:		**96-DV-03-S24**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**GW-38443-091108-NZ-015**	**GW-38443-072309-GL-010**	**GW-38443-051115-GL-004**	**96-DV-03-S22**
Sample Date:		**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/11/2008**	**7/23/2009**	**5/11/2015**	**7/9/1996**
Sample Depth:		**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**N/A**
Sampling Company:		**OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**OEPA**
Parameters	**Units**															
Semi-Volatiles																
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2,4,5-Trichlorophenol	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	25 U
2,4,6-Trichlorophenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	10 U
2,4-Dichlorophenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	10 U
2,4-Dimethylphenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	10 U
2,4-Dinitrophenol	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	5.0 UJ	5.0 U	-	25 U
2,4-Dinitrotoluene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	10 U
2,6-Dinitrotoluene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	10 U
2-Chloronaphthalene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
2-Chlorophenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
2-Methylnaphthalene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
2-Methylphenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
2-Nitroaniline	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	25 U
2-Nitrophenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	10 U
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	10 U
3-Nitroaniline	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	25 U
4,6-Dinitro-2-methylphenol	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	25 U
4-Bromophenyl phenyl ether	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	10 U
4-Chloro-3-methylphenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	10 U
4-Chloroaniline	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	10 U
4-Chlorophenyl phenyl ether	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	10 U
4-Methylphenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
4-Nitroaniline	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	25 U
4-Nitrophenol	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	25 U
Acenaphthene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Acenaphthylene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Anthracene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Benzo(a)anthracene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Benzo(a)pyrene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Benzo(b)fluoranthene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Benzo(g,h,i)perylene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Benzo(k)fluoranthene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
bis(2-Chloroethoxy)methane	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
bis(2-Chloroethyl)ether	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2 J	-	-	-	-	-	-	-	-	-	-	4.1 U	2.0 U	-	1 J
Butyl benzylphthalate (BBP)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-	-	9.6	5.0 U	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Chrysene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Dibenz(a,h)anthracene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Dibenzofuran	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Diethyl phthalate	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 JBU
Dimethyl phthalate	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Di-n-butylphthalate (DBP)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Di-n-octyl phthalate (DnOP)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	3 J
Fluoranthene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Fluorene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-104
Sample ID:		96-DV-03-S24	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	GW-38443-091108-NZ-015	GW-38443-072309-GL-010	GW-38443-051115-GL-004	96-DV-03-S22
Sample Date:		7/9/1996	1/6/1998	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	9/11/2008	7/23/2009	5/11/2015	7/9/1996
Sample Depth:		22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	N/A
Sampling Company:		OEPA	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	OEPA
Parameters	**Units**															
Semi-Volatiles (cont'd)																
Hexachlorobenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Hexachlorobutadiene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Hexachlorocyclopentadiene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	R	10 U	-	10 U
Hexachloroethane	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Indeno(1,2,3-cd)pyrene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Isophorone	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Naphthalene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Nitrobenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
N-Nitrosodi-n-propylamine	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
N-Nitrosodiphenylamine	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Pentachlorophenol	µg/L	25 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	25 U
Phenanthrene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Phenol	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	10 U
Pyrene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	10 U
Metals																
Aluminum	µg/L	98.4 B	-	-	-	-	-	-	-	-	-	-	132 J	151 J	-	**5730[b]**
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	200 U	-	-
Antimony	µg/L	3 U	-	-	-	-	-	-	-	-	-	-	0.23 J	0.36 J	-	3 U
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.25 J	-	-
Arsenic	µg/L	4 U	U	U	U	-	-	-	-	-	-	-	**1.0 J[b]**	**1.1 J[b]**	-	**547[ab]**
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	**0.85 J[b]**	-	-
Barium	µg/L	92.5 B	U	U	U	-	-	-	-	-	-	-	185 J	196 J	-	**2530[ab]**
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	187 J	-	-
Beryllium	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	1 U
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-
Cadmium	µg/L	1 U	U	U	U	-	-	-	-	-	-	-	1.0 U	1.0 U	-	1 U
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Calcium	µg/L	78800	-	-	-	-	-	-	-	-	-	-	105000	107000	-	190000
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	103000	-	-
Chromium	µg/L	7.6 B	17	11	55	-	-	-	-	-	-	-	10.0 U	10.0 U	-	17.3
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	10.0 U	-	-
Cobalt	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	-	**24.6 B[b]**
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-
Copper	µg/L	3.2 B	-	-	-	-	-	-	-	-	-	-	25.0 U	25.0 U	-	27.8
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	25.0 U	-	-
Iron	µg/L	180	-	-	-	-	-	-	-	-	-	-	377	300	-	**38000[b]**
Iron (dissolved)	µg/L	-	-	1000	**1900[b]**	-	-	-	-	-	-	-	-	100 U	-	-
Lead	µg/L	2.8 B	U	U	U	-	-	-	-	-	-	-	0.33 J	1.0 U	-	13.4
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Magnesium	µg/L	23100	-	-	-	-	-	-	-	-	-	-	32900	34000	-	75400
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	32500	-	-
Manganese	µg/L	**46.3[b]**	-	-	-	-	-	-	-	-	-	-	23.7	**50.1[b]**	-	**1000[b]**
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	29.3	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	250 U	-	-
Mercury	µg/L	0.2 U	U	U	-	-	-	-	-	-	-	-	0.20 U	0.20 U	-	0.2 U
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	0.20 U	-	-
Nickel	µg/L	1.1 B	-	-	-	-	-	-	-	-	-	-	40.0 U	40.0 U	-	17.3 B
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	40.0 U	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-104**
Sample ID:		**96-DV-03-S24**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**GW-38443-091108-NZ-015**	**GW-38443-072309-GL-010**	**GW-38443-051115-GL-004**	**96-DV-03-S22**
Sample Date:		**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/11/2008**	**7/23/2009**	**5/11/2015**	**7/9/1996**
Sample Depth:		**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**N/A**
Sampling Company:		**OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**OEPA**
Parameters	**Units**															
Metals (cont'd)																
Potassium	µg/L	2720 B	-	-	-	-	-	-	-	-	-	-	4540 J	4460 J	-	9570
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	4200 J	-	-
Selenium	µg/L	4 U	U	U	-	-	-	-	-	-	-	-	5.0 U	5.0 U	-	8.3
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	5.0 U	-	-
Silver	µg/L	1 U	U	U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	1 U
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Sodium	µg/L	13400	-	-	-	-	-	-	-	-	-	-	55300	61700	-	81800
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	58900	-	-
Thallium	µg/L	4 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	**4.6 B[ab]**
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U	-	-
Vanadium	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	50.0 U	50.0 U	-	**14.8 B[b]**
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	50.0 U	-	-
Zinc	µg/L	7.2 B	-	-	-	-	-	-	-	-	-	-	14.3 J	20.0 U	-	89.7
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	20.0 U	-	-
PCBs																
Aroclor-1016 (PCB-1016)	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	1 U
Aroclor-1221 (PCB-1221)	µg/L	2 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	2 U
Aroclor-1232 (PCB-1232)	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	1 U
Aroclor-1242 (PCB-1242)	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	1 U
Aroclor-1248 (PCB-1248)	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	1 U
Aroclor-1254 (PCB-1254)	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	1 U
Aroclor-1260 (PCB-1260)	µg/L	1 U	-	-	-	-	-	-	-	-	-	-	0.20 UJ	0.20 U	-	1 U
Pesticides																
4,4'-DDD	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 UJ	-	0.1 U
4,4'-DDE	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
4,4'-DDT	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
Aldrin	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
alpha-BHC	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
alpha-Chlordane	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
beta-BHC	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
delta-BHC	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
Dieldrin	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
Endosulfan I	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
Endosulfan II	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
Endosulfan sulfate	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
Endrin	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
Endrin aldehyde	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
Endrin ketone	µg/L	0.1 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.1 U
gamma-BHC (lindane)	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
gamma-Chlordane	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
Heptachlor	µg/L	**0.0095 PJ[b]**	-	-	-	-	-	-	-	-	-	-	0.050 U	**0.0085 J[b]**	-	0.05 U
Heptachlor epoxide	µg/L	0.05 U	-	-	-	-	-	-	-	-	-	-	0.050 U	0.050 U	-	0.05 U
Methoxychlor	µg/L	0.5 U	-	-	-	-	-	-	-	-	-	-	0.10 U	0.10 U	-	0.5 U
Toxaphene	µg/L	5 U	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	5 U
Gases																
Ethane	µg/L	-	-	U	U	-	-	-	-	-	-	-	-	0.50 U	-	-
Ethene	µg/L	-	-	U	U	-	-	-	-	-	-	-	-	0.50 U	-	-
Methane	µg/L	-	-	U	0.6	-	-	-	-	-	-	-	-	0.28 J	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-104**
Sample ID:		**96-DV-03-S24**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**GW-38443-091108-NZ-015**	**GW-38443-072309-GL-010**	**GW-38443-051115-GL-004**	**96-DV-03-S22**
Sample Date:		**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/11/2008**	**7/23/2009**	**5/11/2015**	**7/9/1996**
Sample Depth:		**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**N/A**
Sampling Company:		**OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**OEPA**
Parameters	**Units**															
Herbicides																
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-	-	4.0 U	4.0 U	-	-
General Chemistry																
Alkalinity, total (as CaCO3)	µg/L	-	-	290000	220000	-	-	-	-	-	-	-	-	323000	-	-
Ammonia-N	µg/L	-	-	U	U	-	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	32000	32700	-	-	-	-	-	-	-	-	122000	-	-
Cyanide (total)	µg/L	3 U	-	-	-	-	-	-	-	-	-	-	-	10 U	-	9.2 B[b]
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	4000	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	408000	-	-
Nitrate (as N)	µg/L	-	-	4600[b]	8900[b]	-	-	-	-	-	-	-	-	500	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	100 U	-	-
Sulfate	µg/L	-	-	41900	45400	-	-	-	-	-	-	-	-	63800	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	3000 U	-	-
Total organic carbon (TOC)	µg/L	-	-	U	2000	-	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-206	MW-206	MW-206	MW-206
Sample ID:		MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	GW-38443-091108-NZ-014	GW-38443-051515-AS-024	MW206	MW206	MW206	MW206
Sample Date:		5/28/1998	2/16/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/2/2005	9/11/2008	5/15/2015	2/18/1999	11/11/1999	5/9/2000	6/6/2001
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	µg/L	7.3	6	8.4	8.9	6.9	5.2	U	U	U	0.45 J	1.0 U	U	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	U	U	U	U
1,1,2-Trichloroethane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,1-Dichloroethane	µg/L	U	U	U	U	U	U	U	U	U	0.30 J	1.0 U	U	U	U	U
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,2-Dichloroethane	µg/L	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	U	U	U	U	U	U	U	U	U	-	-	U	U	U	U
1,2-Dichloropropane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-
Acetone	µg/L	U	U	U	U	U	U	U	U	U	10 U	10 U	U	U	U	U
Benzene	µg/L	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U	U	U
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Bromoform	µg/L	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U	U	U
Bromomethane (Methyl bromide)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Carbon disulfide	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Chlorobenzene	µg/L	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U	U	U
Chloroethane	µg/L	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U	U	U
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Chloromethane (Methyl chloride)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
cis-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Isopropyl benzene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-	-	-
Methyl cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	1.0 U	-	-	-	-
Methylene chloride	µg/L	U	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	0.5 J	U	U	U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	U	U	U	U
Tetrachloroethene	µg/L	U	U	U	U	U	U	U	U	U	0.56 J	0.45 J	U	U	U	U
Toluene	µg/L	3.5 J	2 J	U	U	U	U	U	U	U	1.0 U	1.0 U	0.6 J	U	U	U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
trans-1,3-Dichloropropene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Trichloroethene	µg/L	18[ab]	17[ab]	21[ab]	22[ab]	21[ab]	17[ab]	5.9[ab]	8[ab]	5.7[ab]	3.6[b]	1.4[b]	U	U	U	U
Trichlorofluoromethane (CFC-11)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Trifluorotrichloroethane (CFC-113)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-	-	-
Vinyl chloride	µg/L	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U	U	U
Xylenes (total)	µg/L	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	U	U	U	U

Aquifer:		Upper Aquifer	Upper Aquifer
Sample Location:		MW-206	MW-206
Sample ID:		MW206	MW206
Sample Date:		6/14/2002	8/2/2005
Sample Depth:		20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne
Parameters	**Units**		
Volatiles			
1,1,1-Trichloroethane	µg/L	U	U
1,1,2,2-Tetrachloroethane	µg/L	U	U
1,1,2-Trichloroethane	µg/L	-	-
1,1-Dichloroethane	µg/L	U	U
1,1-Dichloroethene	µg/L	-	-
1,2,4-Trichlorobenzene	µg/L	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-
1,2-Dichlorobenzene	µg/L	-	-
1,2-Dichloroethane	µg/L	U	U
1,2-Dichloroethene (total)	µg/L	U	U
1,2-Dichloropropane	µg/L	-	-
1,3-Dichlorobenzene	µg/L	-	-
1,4-Dichlorobenzene	µg/L	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-
2-Hexanone	µg/L	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-
Acetone	µg/L	U	U
Benzene	µg/L	U	U
Bromodichloromethane	µg/L	-	-
Bromoform	µg/L	U	U
Bromomethane (Methyl bromide)	µg/L	-	-
Carbon disulfide	µg/L	-	-
Carbon tetrachloride	µg/L	-	-
Chlorobenzene	µg/L	U	U
Chloroethane	µg/L	U	U
Chloroform (Trichloromethane)	µg/L	-	-
Chloromethane (Methyl chloride)	µg/L	-	-
cis-1,2-Dichloroethene	µg/L	-	-
cis-1,3-Dichloropropene	µg/L	-	-
Cyclohexane	µg/L	-	-
Dibromochloromethane	µg/L	-	-
Dichlorodifluoromethane (CFC-12)	µg/L	-	-
Ethylbenzene	µg/L	-	-
Isopropyl benzene	µg/L	-	-
m&p-Xylenes	µg/L	-	-
Methyl acetate	µg/L	-	-
Methyl cyclohexane	µg/L	-	-
Methyl tert butyl ether (MTBE)	µg/L	-	-
Methylene chloride	µg/L	U	U
o-Xylene	µg/L	-	-
Styrene	µg/L	U	U
Tetrachloroethene	µg/L	U	U
Toluene	µg/L	U	U
trans-1,2-Dichloroethene	µg/L	-	-
trans-1,3-Dichloropropene	µg/L	-	-
Trichloroethene	µg/L	U	U
Trichlorofluoromethane (CFC-11)	µg/L	-	-
Trifluorotrichloroethane (CFC-113)	µg/L	-	-
Vinyl chloride	µg/L	U	U
Xylenes (total)	µg/L	U	U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-206	MW-206	MW-206	MW-206
Sample ID:		MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	GW-38443-091108-NZ-014	GW-38443-051515-AS-024	MW206	MW206	MW206	MW206
Sample Date:		5/28/1998	2/16/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/2/2005	9/11/2008	5/15/2015	2/18/1999	11/11/1999	5/9/2000	6/6/2001
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne
Parameters	**Units**															
Semi-Volatiles																
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	5.0 UJ	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	2.1 U	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-

Aquifer:		Upper Aquifer
Sample Location:		MW-206
Sample ID:		MW206
Sample Date:		6/14/2002
Sample Depth:		20-30 ft BGS
Sampling Company:		Payne
Parameters	**Units**	
Semi-Volatiles		
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-
2,4,5-Trichlorophenol	µg/L	-
2,4,6-Trichlorophenol	µg/L	-
2,4-Dichlorophenol	µg/L	-
2,4-Dimethylphenol	µg/L	-
2,4-Dinitrophenol	µg/L	-
2,4-Dinitrotoluene	µg/L	-
2,6-Dinitrotoluene	µg/L	-
2-Chloronaphthalene	µg/L	-
2-Chlorophenol	µg/L	-
2-Methylnaphthalene	µg/L	-
2-Methylphenol	µg/L	-
2-Nitroaniline	µg/L	-
2-Nitrophenol	µg/L	-
3&4-Methylphenol	µg/L	-
3,3'-Dichlorobenzidine	µg/L	-
3-Nitroaniline	µg/L	-
4,6-Dinitro-2-methylphenol	µg/L	-
4-Bromophenyl phenyl ether	µg/L	-
4-Chloro-3-methylphenol	µg/L	-
4-Chloroaniline	µg/L	-
4-Chlorophenyl phenyl ether	µg/L	-
4-Methylphenol	µg/L	-
4-Nitroaniline	µg/L	-
4-Nitrophenol	µg/L	-
Acenaphthene	µg/L	-
Acenaphthylene	µg/L	-
Acetophenone	µg/L	-
Anthracene	µg/L	-
Atrazine	µg/L	-
Benzaldehyde	µg/L	-
Benzo(a)anthracene	µg/L	-
Benzo(a)pyrene	µg/L	-
Benzo(b)fluoranthene	µg/L	-
Benzo(g,h,i)perylene	µg/L	-
Benzo(k)fluoranthene	µg/L	-
Biphenyl (1,1-Biphenyl)	µg/L	-
bis(2-Chloroethoxy)methane	µg/L	-
bis(2-Chloroethyl)ether	µg/L	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-
Butyl benzylphthalate (BBP)	µg/L	-
Caprolactam	µg/L	-
Carbazole	µg/L	-
Chrysene	µg/L	-
Dibenz(a,h)anthracene	µg/L	-
Dibenzofuran	µg/L	-
Diethyl phthalate	µg/L	-
Dimethyl phthalate	µg/L	-
Di-n-butylphthalate (DBP)	µg/L	-
Di-n-octyl phthalate (DnOP)	µg/L	-
Fluoranthene	µg/L	-
Fluorene	µg/L	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-206	MW-206	MW-206	MW-206
Sample ID:		MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	GW-38443-091108-NZ-014	GW-38443-051515-AS-024	MW206	MW206	MW206	MW206
Sample Date:		5/28/1998	2/16/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/2/2005	9/11/2008	5/15/2015	2/18/1999	11/11/1999	5/9/2000	6/6/2001
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne
Parameters	**Units**															
Semi-Volatiles (cont'd)																
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	R	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Metals																
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	222	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	U	U	-	-	-	-	-	-	-	**0.78 J[b]**	-	U	-	-	-
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	200	U	-	-	-	-	-	-	-	234	-	U	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	U	U	-	-	-	-	-	-	-	1.0 U	-	U	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	154000	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	U	U	-	-	-	-	-	-	-	10.0 U	-	24	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	50.0 U	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	25.0 U	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	451	-	-	-	-	-
Iron (dissolved)	µg/L	1000	690	-	-	-	-	-	-	-	-	-	**2500[b]**	-	-	-
Lead	µg/L	U	U	-	-	-	-	-	-	-	0.39 J	-	U	-	-	-
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	45000	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	**96.4[b]**	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	U	-	-	-	-	-	-	-	-	0.20 U	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	40.0 U	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-206	MW-206	MW-206	MW-206	MW-206
Sample ID:		MW206	MW206	MW206	MW206	MW206
Sample Date:		6/14/2002	7/1/2004	10/15/2004	8/2/2005	9/11/2008
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**					
Semi-Volatiles (cont'd)						
Hexachlorobenzene	µg/L	-	-	-	-	0.20 U
Hexachlorobutadiene	µg/L	-	-	-	-	1.0 U
Hexachlorocyclopentadiene	µg/L	-	-	-	-	R
Hexachloroethane	µg/L	-	-	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	0.20 U
Isophorone	µg/L	-	-	-	-	1.0 U
Naphthalene	µg/L	-	-	-	-	0.20 U
Nitrobenzene	µg/L	-	-	-	-	1.0 U
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	1.0 U
N-Nitrosodiphenylamine	µg/L	-	-	-	-	1.0 U
Pentachlorophenol	µg/L	-	-	-	-	5.0 U
Phenanthrene	µg/L	-	-	-	-	0.20 U
Phenol	µg/L	-	-	-	-	1.0 U
Pyrene	µg/L	-	-	-	-	0.20 U
Metals						
Aluminum	µg/L	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-
Antimony	µg/L	-	-	-	-	2.0 U
Antimony (dissolved)	µg/L	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	**0.78 J[b]**
Arsenic (dissolved)	µg/L	-	-	-	-	-
Barium	µg/L	-	-	-	-	234
Barium (dissolved)	µg/L	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	5.0 U
Beryllium (dissolved)	µg/L	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	1.0 U
Cadmium (dissolved)	µg/L	-	-	-	-	-
Calcium	µg/L	-	-	-	-	154000
Calcium (dissolved)	µg/L	-	-	-	-	-
Chromium	µg/L	-	-	-	-	10.0 U
Chromium (dissolved)	µg/L	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	50.0 U
Cobalt (dissolved)	µg/L	-	-	-	-	-
Copper	µg/L	-	-	-	-	25.0 U
Copper (dissolved)	µg/L	-	-	-	-	-
Iron	µg/L	-	-	-	-	451
Iron (dissolved)	µg/L	-	-	-	-	-
Lead	µg/L	-	-	-	-	0.39 J
Lead (dissolved)	µg/L	-	-	-	-	-
Magnesium	µg/L	-	-	-	-	45000
Magnesium (dissolved)	µg/L	-	-	-	-	-
Manganese	µg/L	-	-	-	-	**96.4[b]**
Manganese (dissolved)	µg/L	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-
Mercury	µg/L	-	-	-	-	0.20 U
Mercury (dissolved)	µg/L	-	-	-	-	-
Nickel	µg/L	-	-	-	-	40.0 U
Nickel (dissolved)	µg/L	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-206	MW-206	MW-206	MW-206
Sample ID:		MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	GW-38443-091108-NZ-014	GW-38443-051515-AS-024	MW206	MW206	MW206	MW206
Sample Date:		5/28/1998	2/16/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/2/2005	9/11/2008	5/15/2015	2/18/1999	11/11/1999	5/9/2000	6/6/2001
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne
Parameters	**Units**															
Metals (cont'd)																
Potassium	µg/L	-	-	-	-	-	-	-	-	-	4760 J	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	U	-	-	-	-	-	-	-	-	5.0 U	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	U	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	34600	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	50.0 U	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	9.9 J	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PCBs																
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-	-	-
Pesticides																
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	0.050 U	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	0.10 U	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	2.0 U	-	-	-	-	-
Gases																
Ethane	µg/L	U	U	-	-	-	-	-	-	-	-	-	U	-	-	-
Ethene	µg/L	U	U	-	-	-	-	-	-	-	-	-	U	-	-	-
Methane	µg/L	1.4	0.6	-	-	-	-	-	-	-	-	-	1.8	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206
Sample ID:		MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	GW-38443-091108-NZ-014	GW-38443-051515-AS-024	MW206	MW206	MW206	MW206	MW206	MW206
Sample Date:		5/28/1998	2/16/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/2/2005	9/11/2008	5/15/2015	2/18/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	
Parameters	**Units**																	
Herbicides																		
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	1.0 U	-	-	-	-	-	-	
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	4.0 U	-	-	-	-	-	-	
General Chemistry																		
Alkalinity, total (as CaCO3)	µg/L	460000	310000	-	-	-	-	-	-	-	-	-	350000	-	-	-	-	
Ammonia-N	µg/L	U	U	-	-	-	-	-	-	-	-	-	U	-	-	-	-	
Chloride	µg/L	95100	80500	-	-	-	-	-	-	-	-	-	28000	-	-	-	-	
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nitrate (as N)	µg/L	650	1100	-	-	-	-	-	-	-	-	-	10000[b]	-	-	-	-	
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sulfate	µg/L	50200	47000	-	-	-	-	-	-	-	-	-	54400	-	-	-	-	
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total organic carbon (TOC)	µg/L	U	1000	-	-	-	-	-	-	-	-	-	2000	-	-	-	-	

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**
Sample ID:		**MW206**	**MW206**	**MW206**	**GW-38443-090908-NZ-006**	**GW-38443-072309-GL-008**	**GW-38443-072309-GL-009**	**GW-38443-072709-GL-008**	**GW-38443-100417-DA-008**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**
Sample Date:		**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/23/2009**	**7/23/2009**	**7/27/2009**	**10/4/2017**	**2/18/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS Duplicate**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**													
Volatiles														
1,1,1-Trichloroethane	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.23 U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	U	U	U	1.0 U	1.0 UJ	1.0 UJ	-	0.32 U	U	U	U	U	U
1,1,2-Trichloroethane	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.34 U	-	-	-	-	-
1,1-Dichloroethane	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.25 U	U	U	U	U	U
1,1-Dichloroethene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.27 U	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/L	-	-	-	1.0 UJ	1.0 UJ	1.0 UJ	-	0.27 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.0084 U	-	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.0071 U	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.26 U	-	-	-	-	-
1,2-Dichloroethane	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.30 U	U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	U	U	U	-	-	-	-	-	U	U	U	U	U
1,2-Dichloropropane	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.30 U	-	-	-	-	-
1,3-Dichlorobenzene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.32 U	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.23 U	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	10 U	10 U	10 U	-	1.0 U	-	-	-	-	-
2-Hexanone	µg/L	-	-	-	10 U	10 U	10 U	-	1.2 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	10 U	10 U	10 U	-	0.71 U	-	-	-	-	-
Acetone	µg/L	U	U	U	10 U	10 U	10 U	-	1.8 U	U	U	U	U	U
Benzene	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.28 U	U	U	U	U	U
Bromodichloromethane	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.30 U	-	-	-	-	-
Bromoform	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.43 U	U	U	U	U	U
Bromomethane (Methyl bromide)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.42 U	-	-	-	-	-
Carbon disulfide	µg/L	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.34 U	-	-	-	-	-
Carbon tetrachloride	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.35 U	-	-	-	-	-
Chlorobenzene	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.32 U	U	U	U	U	U
Chloroethane	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.41 U	U	U	U	U	U
Chloroform (Trichloromethane)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.31 U	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.43 U	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.30 U	-	-	-	-	-
cis-1,3-Dichloropropene	µg/L	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.26 U	-	-	-	-	-
Cyclohexane	µg/L	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.44 U	-	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.25 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	-	1.0 UJ	1.0 UJ	1.0 UJ	-	0.50 U	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.26 U	-	-	-	-	-
Isopropyl benzene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.21 U	-	-	-	-	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	0.24 U	-	-	-	-	-
Methyl acetate	µg/L	-	-	-	10 U	10 U	10 U	-	1.4 U	-	-	-	-	-
Methyl cyclohexane	µg/L	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.45 U	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.27 U	-	-	-	-	-
Methylene chloride	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.53 U	3 J	U	U	U	U
o-Xylene	µg/L	-	-	-	-	-	-	-	0.28 U	-	-	-	-	-
Styrene	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.23 U	U	U	U	U	U
Tetrachloroethene	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.30 U	U	U	U	U	U
Toluene	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.23 U	4 J	U	U	U	U
trans-1,2-Dichloroethene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.29 U	-	-	-	-	-
trans-1,3-Dichloropropene	µg/L	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.31 U	-	-	-	-	-
Trichloroethene	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.33 U	U	U	U	U	U
Trichlorofluoromethane (CFC-11)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.50 U	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.41 U	-	-	-	-	-
Vinyl chloride	µg/L	U	U	U	1.0 U	1.0 U	1.0 U	-	0.45 U	U	U	U	U	U
Xylenes (total)	µg/L	U	U	U	2.0 U	2.0 U	2.0 U	-	0.24 U	U	U	U	U	U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**
Sample ID:		**MW206**	**MW206**	**MW206**	**GW-38443-090908-NZ-006**	**GW-38443-072309-GL-008**	**GW-38443-072309-GL-009**	**GW-38443-072709-GL-008**	**GW-38443-100417-DA-008**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**
Sample Date:		**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/23/2009**	**7/23/2009**	**7/27/2009**	**10/4/2017**	**2/18/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS Duplicate**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**													
Semi-Volatiles														
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.42 U	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.31 U	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.25 U	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.20 U	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.26 U	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.33 U	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.26 U	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.83 U	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.10 U	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.30 U	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.094 U	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.18 U	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.22 U	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.29 U	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	0.83 U	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.39 U	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.29 U	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	2.5 U	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.23 U	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.22 U	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.22 U	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.31 U	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.23 U	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.30 U	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.046 U	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.050 U	-	-	-	-	-
Acetophenone	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.35 U	-	-	-	-	-
Anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.092 U	-	-	-	-	-
Atrazine	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.35 U	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.41 U	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.031 U	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.054 U	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.041 U	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.048 U	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.047 U	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.14 U	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.33 U	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.10 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	1.8 U	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.27 U	-	-	-	-	-
Caprolactam	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.21 U	-	-	-	-	-
Carbazole	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.29 U	-	-	-	-	-
Chrysene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.052 U	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.046 U	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.021 U	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.62 U	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.30 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	1.2 U	1.0 U	1.0 U	-	1.8 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.24 U	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.046 U	-	-	-	-	-
Fluorene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.042 U	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**
Sample ID:		**MW206**	**MW206**	**MW206**	**GW-38443-090908-NZ-006**	**GW-38443-072309-GL-008**	**GW-38443-072309-GL-009**	**GW-38443-072709-GL-008**	**GW-38443-100417-DA-008**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**
Sample Date:		**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/23/2009**	**7/23/2009**	**7/27/2009**	**10/4/2017**	**2/18/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS Duplicate**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**													
Semi-Volatiles (cont'd)														
Hexachlorobenzene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.089 U	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.28 U	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	10 U	10 U	10 U	-	0.25 UJ	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.20 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.045 U	-	-	-	-	-
Isophorone	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.28 U	-	-	-	-	-
Naphthalene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.065 U	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.042 U	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.25 U	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.32 U	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.28 U	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.064 U	-	-	-	-	-
Phenol	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.62 U	-	-	-	-	-
Pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.044 U	-	-	-	-	-
Metals														
Aluminum	µg/L	-	-	-	115 J	200 U	200 U	-	55	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	200 U	200 U	-	34 U	-	-	-	-	-
Antimony	µg/L	-	-	-	0.34 J	0.35 J	0.35 J	-	0.57 U	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	0.27 J	0.32 J	-	0.57 U	-	-	-	-	-
Arsenic	µg/L	-	-	-	**0.84 J[b]**	**1.2 J[b]**	**1.2 J[b]**	-	**1.1 J[b]**	**12[ab]**	-	-	-	-
Arsenic (dissolved)	µg/L	-	-	-	-	**1.2 J[b]**	**1.3 J[b]**	-	**1.0 J[b]**	-	-	-	-	-
Barium	µg/L	-	-	-	107 J	133 J	133 J	-	140	U	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	126 J	131 J	-	140	-	-	-	-	-
Beryllium	µg/L	-	-	-	5.0 U	5.0 U	5.0 U	-	0.31 U	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	5.0 U	5.0 U	-	0.31 U	-	-	-	-	-
Cadmium	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.21 U	U	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	1.0 U	1.0 U	-	0.21 U	-	-	-	-	-
Calcium	µg/L	-	-	-	109000	134000	134000	-	140000	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	126000	130000	-	140000	-	-	-	-	-
Chromium	µg/L	-	-	-	10.0 U	10.0 U	10.0 U	-	0.98 U	U	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	10.0 U	10.0 U	-	0.98 U	-	-	-	-	-
Cobalt	µg/L	-	-	-	50.0 U	50.0 U	50.0 U	-	0.24 J	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	50.0 U	50.0 U	-	0.20 J	-	-	-	-	-
Copper	µg/L	-	-	-	5.2 J	25.0 U	25.0 U	-	2.2	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	25.0 U	25.0 U	-	2.4	-	-	-	-	-
Iron	µg/L	-	-	-	218	100 U	100 U	-	47 U	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	100 U	100 U	-	47 U	**2500[b]**	-	-	-	-
Lead	µg/L	-	-	-	0.30 J	1.0 U	1.0 U	-	0.45 U	U	-	-	-	-
Lead (dissolved)	µg/L	-	-	-	-	1.0 U	1.0 U	-	0.45 U	-	-	-	-	-
Magnesium	µg/L	-	-	-	22900	27600	27700	-	29000	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	25900	26600	-	29000	-	-	-	-	-
Manganese	µg/L	-	-	-	**151[b]**	**137[b]**	**131[b]**	-	**190[b]**	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	**121[b]**	**127[b]**	-	**180[b]**	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	250 U	250 U	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.13 U	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	0.20 U	0.20 U	-	0.13 U	-	-	-	-	-
Nickel	µg/L	-	-	-	40.0 U	40.0 U	40.0 U	-	1.5 U	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	40.0 U	40.0 U	-	1.5 U	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**
Sample ID:		**MW206**	**MW206**	**MW206**	**GW-38443-090908-NZ-006**	**GW-38443-072309-GL-008**	**GW-38443-072309-GL-009**	**GW-38443-072709-GL-008**	**GW-38443-100417-DA-008**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**
Sample Date:		**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/23/2009**	**7/23/2009**	**7/27/2009**	**10/4/2017**	**2/18/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS Duplicate**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**													
Metals (cont'd)														
Potassium	µg/L	-	-	-	2070 J	2020 J	2050 J	-	2500 J	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	1960 J	2010 J	-	4900 J	-	-	-	-	-
Selenium	µg/L	-	-	-	1.3 J	2.0 J	1.8 J	-	1.9 J	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	2.0 J	1.7 J	-	1.7 J	-	-	-	-	-
Silver	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.053 U	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	1.0 U	1.0 U	-	0.053 U	-	-	-	-	-
Sodium	µg/L	-	-	-	11800	13000	13200	-	14000	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	12400	12900	-	14000	-	-	-	-	-
Thallium	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.20 U	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	1.0 U	1.0 U	-	0.20 U	-	-	-	-	-
Vanadium	µg/L	-	-	-	50.0 U	50.0 U	50.0 U	-	0.82 U	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	50.0 U	50.0 U	-	0.82 U	-	-	-	-	-
Zinc	µg/L	-	-	-	5.4 J	22.9 U	20.0 U	-	15 U	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	20.0 U	20.0 U	-	15 U	-	-	-	-	-
PCBs														
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.053 U	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.095 U	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.074 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.063 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.053 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.032 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	0.20 U	0.20 U	0.20 U	-	0.042 U	-	-	-	-	-
Pesticides														
4,4'-DDD	µg/L	-	-	-	0.050 U	0.050 UJ	0.050 UJ	-	0.019 U	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.012 U	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.018 U	-	-	-	-	-
Aldrin	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.013 U	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.014 U	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.012 U	-	-	-	-	-
beta-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.019 U	-	-	-	-	-
delta-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.030 U	-	-	-	-	-
Dieldrin	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.013 U	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.016 U	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.015 U	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.015 U	-	-	-	-	-
Endrin	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.013 U	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.019 U	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.016 U	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.013 U	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.013 U	-	-	-	-	-
Heptachlor	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.014 U	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	0.050 U	0.050 U	0.050 U	-	0.015 U	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	0.10 U	0.10 U	0.10 U	-	0.013 U	-	-	-	-	-
Toxaphene	µg/L	-	-	-	2.0 U	2.0 U	2.0 U	-	0.20 U	-	-	-	-	-
Gases														
Ethane	µg/L	-	-	-	-	0.50 U	0.50 U	-	-	1.4	-	-	-	-
Ethene	µg/L	-	-	-	-	0.50 U	0.50 U	-	-	U	-	-	-	-
Methane	µg/L	-	-	-	-	0.50 U	0.50 U	-	-	4.7	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**
Sample ID:		**MW206**	**MW206**	**MW206**	**GW-38443-090908-NZ-006**	**GW-38443-072309-GL-008**	**GW-38443-072309-GL-009**	**GW-38443-072709-GL-008**	**GW-38443-100417-DA-008**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**
Sample Date:		**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/23/2009**	**7/23/2009**	**7/27/2009**	**10/4/2017**	**2/18/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS Duplicate**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**													
Herbicides														
2,4,5-T	µg/L	-	-	-	-	-	-	-	0.24 U	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	-	0.20 U	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	4.0 U	4.0 U	4.0 U	-	1.1 U	-	-	-	-	-
General Chemistry														
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	344000	353000	-	-	350000	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	U	-	-	-	-
Chloride	µg/L	-	-	-	-	23100	23400	-	24000	19500	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	10 U	10 U	-	5.0 U	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	3000	3000	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	448000	450000	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	**8300[b]**	**8300[b]**	-	**13000[ab]**	**8400[b]**	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	100 U	100 U	-	36 J	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	55900	56400	-	57000	46100	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	3000 U	3000 U	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	5000	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**MW207**	**MW207**	**MW207**	**GW-38443-090908-NZ-007**	**GW-38443-072709-GL-017**	**GW-38443-100417-SCT-009**	**GW-38443-060609-DR-029**	**GW-38443-060609-DR-030**	**GW-38443-060709-DR-031**	**GW-38443-060709-DR-032**	**GW-38443-060709-DR-033**
Sample Date:		**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/27/2009**	**10/4/2017**	**6/6/2009**	**6/6/2009**	**6/7/2009**	**6/7/2009**	**6/7/2009**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-27 ft BGS**	**20-27 ft BGS Duplicate**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/L	U	U	U	1.0 U	1.0 U	0.23 U	4.8	5.0	8.8	8.8	10
1,1,2,2-Tetrachloroethane	µg/L	U	U	U	1.0 U	1.0 UJ	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	-	-	-	1.0 U	1.0 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	U	U	U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	-	-	-	1.0 U	1.0 U	0.27 U	0.27 J	0.20 J	0.37 J	0.38 J	0.45 J
1,2,4-Trichlorobenzene	µg/L	-	-	-	1.0 UJ	1.0 UJ	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	2.0 U	2.0 U	0.0084 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	1.0 U	1.0 U	0.0071 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	-	-	-	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	U	U	U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	U	U	U	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	-	-	-	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	-	-	-	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	-	-	-	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	10 U	10 U	1.0 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	-	-	-	10 U	10 U	1.2 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	10 U	10 U	0.71 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	U	U	U	10 U	10 U	3.0 J	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	U	U	U	1.0 U	1.0 U	0.28 U	**0.75 J[b]**	**0.59 J[b]**	**0.53 J[b]**	**0.58 J[b]**	**0.88 J[b]**
Bromodichloromethane	µg/L	-	-	-	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	U	U	U	1.0 U	1.0 U	0.43 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	µg/L	-	-	-	1.0 U	1.0 U	0.42 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	-	-	-	1.0 U	1.0 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	-	-	-	1.0 U	1.0 U	0.35 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	U	U	U	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	U	U	U	1.0 U	1.0 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	-	-	-	1.0 U	1.0 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	-	-	-	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	-	-	-	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	-	-	-	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	-	-	-	1.0 U	1.0 UJ	0.44 U	0.33 J	0.18 J	1.0 U	1.0 U	0.36 J
Dibromochloromethane	µg/L	-	-	-	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	-	-	-	1.0 UJ	1.0 UJ	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	-	-	-	1.0 U	1.0 U	0.26 U	0.45 J	0.39 J	0.38 J	0.28 J	0.37 J
Isopropyl benzene	µg/L	-	-	-	1.0 U	1.0 U	0.21 U	0.42 J	0.41 J	0.42 J	0.39 J	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	0.24 U	-	-	-	-	-
Methyl acetate	µg/L	-	-	-	10 U	10 U	1.4 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	-	-	-	1.0 U	1.0 UJ	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	5.0 U	5.0 U	0.27 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	U	U	U	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	0.28 U	-	-	-	-	-
Styrene	µg/L	U	U	U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	U	U	U	1.0 U	1.0 U	0.30 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	µg/L	U	U	U	1.0 U	1.0 U	0.23 U	2.1 U	1.9 U	1.6 U	1.3 U	1.6 U
trans-1,2-Dichloroethene	µg/L	-	-	-	1.0 U	1.0 U	0.29 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	-	-	-	1.0 U	1.0 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	U	U	U	1.0 U	1.0 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	-	-	-	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	-	-	-	1.0 U	1.0 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	U	U	U	1.0 U	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	U	U	U	2.0 U	2.0 U	0.24 U	0.97 J	0.84 J	1.5 J	0.94 J	1.2 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS
Sample ID:		MW207	MW207	MW207	GW-38443-090908-NZ-007	GW-38443-072709-GL-017	GW-38443-100417-SCT-009	GW-38443-060609-DR-029	GW-38443-060609-DR-030	GW-38443-060709-DR-031	GW-38443-060709-DR-032	GW-38443-060709-DR-033
Sample Date:		7/1/2004	10/14/2004	8/2/2005	9/9/2008	7/27/2009	10/4/2017	6/6/2009	6/6/2009	6/7/2009	6/7/2009	6/7/2009
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-27 ft BGS	20-27 ft BGS Duplicate	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS
Sampling Company:		Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	1.0 U	1.0 U	0.40 U	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	5.0 U	5.0 U	0.30 U	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	5.0 U	5.0 U	0.24 U	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	2.0 U	2.0 U	0.19 U	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	2.0 U	2.0 U	0.25 U	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	5.0 U	5.0 U	0.32 U	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	5.0 U	5.0 U	0.25 U	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	5.0 U	5.0 U	0.79 U	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	1.0 U	1.0 U	0.099 U	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	1.0 U	1.0 U	0.29 U	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	0.20 U	0.20 U	0.090 U	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	1.0 U	1.0 U	0.17 U	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.21 U	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	2.0 U	2.0 U	0.28 U	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	0.79 U	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	5.0 U	5.0 U	0.37 U	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.28 U	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	5.0 U	5.0 U	2.4 U	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	2.0 U	2.0 U	0.22 U	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	2.0 U	2.0 U	0.21 U	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.21 U	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	2.0 U	2.0 U	0.30 U	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	1.0 U	1.0 U	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.22 U	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	5.0 U	5.0 U	0.29 U	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	0.20 U	0.20 U	0.044 U	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	0.20 U	0.20 U	0.048 U	-	-	-	-	-
Acetophenone	µg/L	-	-	-	1.0 U	1.0 U	0.34 U	-	-	-	-	-
Anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.087 U	-	-	-	-	-
Atrazine	µg/L	-	-	-	1.0 U	1.0 U	0.34 U	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	1.0 U	1.0 U	0.39 U	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.029 U	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.051 U	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.039 U	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	0.20 U	0.20 U	0.046 U	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.044 U	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	1.0 U	1.0 U	0.13 U	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	1.0 U	1.0 U	0.32 U	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	1.0 U	1.0 U	0.099 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	2.0 U	2.0 U	1.7 U	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	1.0 U	1.0 U	0.26 U	-	-	-	-	-
Caprolactam	µg/L	-	-	-	5.0 U	5.0 UJ	0.20 U	-	-	-	-	-
Carbazole	µg/L	-	-	-	1.0 U	1.0 U	0.28 U	-	-	-	-	-
Chrysene	µg/L	-	-	-	0.20 U	0.20 U	0.050 U	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.044 U	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	1.0 U	1.0 U	0.020 U	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	1.0 U	1.0 U	0.59 U	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	1.0 U	1.0 U	0.29 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	1.3 U	1.0 U	1.7 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	1.0 U	1.0 U	0.23 U	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.044 U	-	-	-	-	-
Fluorene	µg/L	-	-	-	0.20 U	0.20 U	0.040 U	-	-	-	-	-

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Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS
Sample ID:		MW207	MW207	MW207	GW-38443-090908-NZ-007	GW-38443-072709-GL-017	GW-38443-100417-SCT-009	GW-38443-060609-DR-029	GW-38443-060609-DR-030	GW-38443-060709-DR-031	GW-38443-060709-DR-032	GW-38443-060709-DR-033
Sample Date:		7/1/2004	10/14/2004	8/2/2005	9/9/2008	7/27/2009	10/4/2017	6/6/2009	6/6/2009	6/7/2009	6/7/2009	6/7/2009
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-27 ft BGS	20-27 ft BGS Duplicate	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS
Sampling Company:		Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Hexachlorobenzene	µg/L	-	-	-	0.20 U	0.20 U	0.084 U	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	1.0 U	1.0 U	0.27 U	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	10 U	10 U	0.24 UJ	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	1.0 U	1.0 U	0.19 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.043 U	-	-	-	-	-
Isophorone	µg/L	-	-	-	1.0 U	1.0 U	0.27 U	-	-	-	-	-
Naphthalene	µg/L	-	-	-	0.20 U	0.20 U	0.062 U	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	1.0 U	1.0 U	0.040 U	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	1.0 U	1.0 U	0.24 U	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	1.0 U	1.0 U	0.31 U	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	5.0 U	5.0 U	0.27 U	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	0.20 U	0.20 U	0.061 U	-	-	-	-	-
Phenol	µg/L	-	-	-	1.0 U	1.0 U	0.59 U	-	-	-	-	-
Pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.042 U	-	-	-	-	-
Metals												
Aluminum	µg/L	-	-	-	108 J	200 U	930	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	200 U	34 U	-	-	-	-	-
Antimony	µg/L	-	-	-	2.0 U	2.0 U	0.57 U	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	2.0 U	0.57 U	-	-	-	-	-
Arsenic	µg/L	-	-	-	**0.51 J[b]**	**17.6[ab]**	**4.1 J[b]**	**34.9[ab]**	**25.3[ab]**	**5.3[b]**	**2.1 J[b]**	**58.3[ab]**
Arsenic (dissolved)	µg/L	-	-	-	-	**17.0[ab]**	**3.3 J[b]**	**1.1 J[b]**	**0.94 J[b]**	**1.1 J[b]**	**1.0 J[b]**	**1.1 J[b]**
Barium	µg/L	-	-	-	103 J	260	200	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	261	190	-	-	-	-	-
Beryllium	µg/L	-	-	-	5.0 U	5.0 U	0.31 U	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	5.0 U	0.31 U	-	-	-	-	-
Cadmium	µg/L	-	-	-	1.0 U	1.0 U	0.21 U	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	1.0 U	0.21 U	-	-	-	-	-
Calcium	µg/L	-	-	-	84600	114000	130000	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	114000	130000	-	-	-	-	-
Chromium	µg/L	-	-	-	10.0 U	10.0 U	0.98 U	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	10.0 U	0.98 U	-	-	-	-	-
Cobalt	µg/L	-	-	-	50.0 U	50.0 U	**0.99 J[b]**	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	50.0 U	**0.66 J[b]**	-	-	-	-	-
Copper	µg/L	-	-	-	25.0 U	25.0 U	1.9 J	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	25.0 U	1.7 U	-	-	-	-	-
Iron	µg/L	-	-	-	185	**3660[b]**	**3600[b]**	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	**3490[b]**	**2700[b]**	-	-	-	-	-
Lead	µg/L	-	-	-	0.28 J	1.0 U	1.2	**29.2[ab]**	**21.4[ab]**	3.4	1.1	**48.1[ab]**
Lead (dissolved)	µg/L	-	-	-	-	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Magnesium	µg/L	-	-	-	20300	30800	34000	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	30700	34000	-	-	-	-	-
Manganese	µg/L	-	-	-	**74.3[b]**	**1080[b]**	**690[b]**	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	**1060[b]**	**680[b]**	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	1654	-	-	-	-	-	-
Mercury	µg/L	-	-	-	0.20 U	0.20 U	0.13 U	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	0.20 U	0.13 U	-	-	-	-	-
Nickel	µg/L	-	-	-	40.0 U	40.0 U	1.5 U	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	40.0 U	1.5 U	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS
Sample ID:		MW207	MW207	MW207	GW-38443-090908-NZ-007	GW-38443-072709-GL-017	GW-38443-100417-SCT-009	GW-38443-060609-DR-029	GW-38443-060609-DR-030	GW-38443-060709-DR-031	GW-38443-060709-DR-032	GW-38443-060709-DR-033
Sample Date:		7/1/2004	10/14/2004	8/2/2005	9/9/2008	7/27/2009	10/4/2017	6/6/2009	6/6/2009	6/7/2009	6/7/2009	6/7/2009
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-27 ft BGS	20-27 ft BGS Duplicate	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS
Sampling Company:		Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Metals (cont'd)												
Potassium	µg/L	-	-	-	2120 J	3130 J	4100	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	3080 J	4000	-	-	-	-	-
Selenium	µg/L	-	-	-	2.3 J	5.0 U	0.89 U	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	5.0 U	0.89 U	-	-	-	-	-
Silver	µg/L	-	-	-	1.0 U	1.0 U	0.053 U	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	1.0 U	0.053 U	-	-	-	-	-
Sodium	µg/L	-	-	-	12300	20200	16000	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	20500	17000	-	-	-	-	-
Thallium	µg/L	-	-	-	1.0 U	1.0 U	0.20 U	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	1.0 U	0.20 U	-	-	-	-	-
Vanadium	µg/L	-	-	-	50.0 U	50.0 U	2.0 J	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	50.0 U	0.82 U	-	-	-	-	-
Zinc	µg/L	-	-	-	20.0 U	20.0 U	16 J	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	20.0 U	15 U	-	-	-	-	-
PCBs												
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	0.20 U	0.20 U	0.049 U	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	0.20 U	0.20 U	0.088 U	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	0.20 U	0.20 U	0.069 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	0.20 U	0.20 U	0.059 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	0.20 U	0.20 U	0.049 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	0.20 U	0.20 U	0.029 U	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	0.20 U	0.20 U	0.039 U	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/L	-	-	-	0.050 U	0.050 UJ	0.018 U	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	0.050 U	0.050 U	0.012 U	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	0.050 U	0.050 U	0.017 U	-	-	-	-	-
Aldrin	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.014 U	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	0.050 U	0.050 U	0.012 U	-	-	-	-	-
beta-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.018 U	-	-	-	-	-
delta-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.029 U	-	-	-	-	-
Dieldrin	µg/L	-	-	-	0.050 U	**0.013 J[b]**	0.013 U	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	0.050 U	0.050 U	0.016 U	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	0.050 U	0.050 U	0.015 U	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	0.050 U	0.050 U	0.015 U	-	-	-	-	-
Endrin	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	0.050 U	0.050 U	0.018 U	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	0.050 U	0.050 U	0.016 U	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	-	-	-	-
Heptachlor	µg/L	-	-	-	0.050 U	0.050 U	0.014 U	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	0.050 U	0.050 U	0.015 U	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	0.10 U	0.10 U	0.013 U	-	-	-	-	-
Toxaphene	µg/L	-	-	-	2.0 U	2.0 U	0.19 U	-	-	-	-	-
Gases												
Ethane	µg/L	-	-	-	-	0.50 U	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	0.50 U	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	210	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**MW207**	**MW207**	**MW207**	**GW-38443-090908-NZ-007**	**GW-38443-072709-GL-017**	**GW-38443-100417-SCT-009**	**GW-38443-060609-DR-029**	**GW-38443-060609-DR-030**	**GW-38443-060709-DR-031**	**GW-38443-060709-DR-032**	**GW-38443-060709-DR-033**
Sample Date:		**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/27/2009**	**10/4/2017**	**6/6/2009**	**6/6/2009**	**6/7/2009**	**6/7/2009**	**6/7/2009**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-27 ft BGS**	**20-27 ft BGS Duplicate**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Herbicides												
2,4,5-T	µg/L	-	-	-	-	-	0.24 U	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	1.0 U	1.0 U	0.20 U	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	4.0 U	4.0 U	1.1 U	-	-	-	-	-
General Chemistry												
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	318000	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	32000	35000	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	10 U	5.0 U	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	3000	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	411000	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	500	4400[b]	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	100	260[b]	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	96800	61000	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	3000 UJ	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-218A**	**MW-218A**	**MW-218A**	**MW-226**	**MW-226**	**MW-234**	**VAS-13**
Sample ID:		**GW-38443-060709-DR-034**	**GW-38443-060709-DR-035**	**GW-38443-060709-DR-036**	**GW-38443-072109-GL-001**	**GW-38443-122209-DR-003**	**GW-38443-100517-DA-010**	**GW-38443-041410-NZ-010**	**GW-38443-100417-SCT-007**	**GW-38443-101618-AS-216**	**GW-38443-120108-DD-144**
Sample Date:		**6/7/2009**	**6/7/2009**	**6/7/2009**	**7/21/2009**	**12/22/2009**	**10/5/2017**	**4/14/2010**	**10/4/2017**	**10/16/2018**	**12/1/2008**
Sample Depth:		**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**8.5-18.5 ft BGS**	**8.5-18.5 ft BGS**	**25-35 ft BGS**	**12-17 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	11	6.6	9.5	1.0 U	1.0 U	0.23 U	1.0 U	0.23 U	0.24 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.32 U	1.0 UJ	0.32 U	0.13 U	5.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	1.0 U	0.34 U	0.090 U	5.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 UJ	0.25 U	1.0	5.0 U
1,1-Dichloroethene	µg/L	0.53 J	0.34 J	1.0 U	1.0 U	1.0 U	0.27 U	1.0 U	0.27 U	0.19 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.27 UJ	1.0 U	0.27 U	0.26 U	5.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	0.0084 U	2.0 U	0.0084 U	0.0086 U	10 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0071 U	1.0 U	0.0071 U	0.0087 U	5.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	0.26 U	0.15 U	5.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 UJ	0.30 U	0.21 U	5.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	0.30 U	0.15 U	5.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	0.32 U	0.15 U	5.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	0.23 U	0.16 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	1.0 U	10 UJ	1.0 U	1.2 U	50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	1.2 U	10 UJ	1.2 U	0.54 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 UJ	10 U	10 UJ	0.71 U	10 UJ	0.71 U	0.42 U	50 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	1.8 UJ	10 UJ	1.8 U	5.4 U	50 UJ
Benzene	µg/L	**0.79 J[b]**	**0.70 J[b]**	1.0 U	1.0 U	1.0 U	0.28 U	1.0 U	0.28 U	0.13 U	5.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	0.30 U	0.17 U	5.0 U
Bromoform	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	0.43 U	1.0 U	0.43 U	0.76 U	5.0 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.42 UJ	1.0 U	0.42 U	0.42 U	5.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.34 U	1.0 U	0.34 U	0.28 U	5.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 U	1.0 U	0.35 U	0.26 U	5.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	0.32 U	0.14 U	5.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.41 U	1.0 U	0.41 U	0.83 UJ	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	1.0 U	0.31 U	0.13 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.43 U	1.0 U	0.43 U	0.20 U	5.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	2.1	1.4	1.0 U	1.0 U	0.30 U	1.0 U	0.30 U	0.16 U	5.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	0.26 UJ	1.0 U	0.26 U	0.61 U	5.0 U
Cyclohexane	µg/L	0.47 J	0.28 J	0.71 J	1.0 UJ	1.0 U	0.44 U	0.59 J	0.44 U	0.24 U	5.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	0.25 U	0.39 U	5.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	0.50 U	1.0 UJ	0.50 U	0.35 U	5.0 U
Ethylbenzene	µg/L	0.47 J	1.0 U	0.21 J	1.0 U	1.0 U	0.26 U	1.0 U	0.26 U	0.11 U	5.0 U
Isopropyl benzene	µg/L	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	0.21 U	0.090 U	5.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	0.24 U	-	0.24 U	0.080 U	-
Methyl acetate	µg/L	10 U	10 U	10 UJ	10 U	10 U	1.4 U	10 UJ	1.4 U	1.7 U	50 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	0.78 J	1.0 UJ	1.0 U	0.45 U	1.0 U	0.45 U	0.33 U	5.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.27 U	5.0 U	0.27 U	0.070 U	25 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 U	1.0 U	0.53 U	2.6 U	5.0 U
o-Xylene	µg/L	-	-	-	-	-	0.28 U	-	0.28 U	0.090 U	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	0.23 U	0.10 U	5.0 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	0.30 U	1.0 UJ	0.30 U	0.15 U	5.0 U
Toluene	µg/L	1.8 U	1.5 U	1.3 U	1.0 U	1.0 U	0.23 U	1.0 U	0.23 U	0.14 U	**180[b]**
trans-1,2-Dichloroethene	µg/L	1.0 U	0.38 J	0.32 J	1.0 U	1.0 U	0.29 U	1.0 U	0.29 U	0.19 U	5.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	0.31 U	1.0 UJ	0.31 U	0.67 U	5.0 U
Trichloroethene	µg/L	1.0 U	**4.2[b]**	**5.2[ab]**	1.0 U	1.0 U	0.33 U	1.0 U	0.33 U	0.10 U	5.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	0.50 U	0.45 U	5.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 U	1.0 U	0.41 U	0.41 UJ	5.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	1.0 U	0.45 U	0.20 U	5.0 U
Xylenes (total)	µg/L	1.4 J	0.49 J	0.47 J	2.0 U	2.0 U	0.24 U	2.0 U	0.24 U	0.15 U	10 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-218A**	**MW-218A**	**MW-218A**	**MW-226**	**MW-226**	**MW-234**	**VAS-13**
Sample ID:		**GW-38443-060709-DR-034**	**GW-38443-060709-DR-035**	**GW-38443-060709-DR-036**	**GW-38443-072109-GL-001**	**GW-38443-122209-DR-003**	**GW-38443-100517-DA-010**	**GW-38443-041410-NZ-010**	**GW-38443-100417-SCT-007**	**GW-38443-101618-AS-216**	**GW-38443-120108-DD-144**
Sample Date:		**6/7/2009**	**6/7/2009**	**6/7/2009**	**7/21/2009**	**12/22/2009**	**10/5/2017**	**4/14/2010**	**10/4/2017**	**10/16/2018**	**12/1/2008**
Sample Depth:		**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**8.5-18.5 ft BGS**	**8.5-18.5 ft BGS**	**25-35 ft BGS**	**12-17 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	1.0 U	1.0 U	0.40 U	-	0.39 U	0.52 U	1.0 U
2,4,5-Trichlorophenol	µg/L	-	-	-	5.0 U	5.0 U	0.30 U	-	0.29 U	1.9 U	5.0 U
2,4,6-Trichlorophenol	µg/L	-	-	-	5.0 U	5.0 U	0.24 U	-	0.23 U	1.7 U	5.0 U
2,4-Dichlorophenol	µg/L	-	-	-	2.0 U	2.0 U	0.19 U	-	0.18 U	0.25 U	2.0 U
2,4-Dimethylphenol	µg/L	-	-	-	2.0 U	2.0 U	0.25 U	-	0.24 U	0.49 U	2.0 U
2,4-Dinitrophenol	µg/L	-	-	-	5.0 U	5.0 U	0.32 U	-	0.31 U	5.9 U	5.0 U
2,4-Dinitrotoluene	µg/L	-	-	-	5.0 U	5.0 U	0.25 U	-	0.24 U	2.0 U	5.0 U
2,6-Dinitrotoluene	µg/L	-	-	-	5.0 U	5.0 U	0.80 U	-	0.78 U	2.0 U	5.0 U
2-Chloronaphthalene	µg/L	-	-	-	1.0 U	1.0 U	0.10 U	-	0.097 U	0.46 U	1.0 U
2-Chlorophenol	µg/L	-	-	-	1.0 U	1.0 U	0.29 U	-	0.28 U	0.26 U	1.0 U
2-Methylnaphthalene	µg/L	-	-	-	0.20 U	0.20 U	0.090 U	-	0.088 U	0.11 U	0.20 U
2-Methylphenol	µg/L	-	-	-	1.0 U	1.0 U	0.17 U	-	0.17 U	0.20 U	1.0 UJ
2-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.21 U	-	0.20 U	0.49 U	2.0 U
2-Nitrophenol	µg/L	-	-	-	2.0 U	2.0 U	0.28 U	-	0.27 U	0.54 U	2.0 U
3&4-Methylphenol	µg/L	-	-	-	-	-	0.80 U	-	0.78 U	0.18 U	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	5.0 U	5.0 U	0.37 U	-	0.36 U	1.1 U	5.0 U
3-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.28 U	-	0.27 U	0.54 U	2.0 U
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	5.0 U	5.0 U	2.4 U	-	2.3 U	2.7 U	5.0 U
4-Bromophenyl phenyl ether	µg/L	-	-	-	2.0 U	2.0 U	0.22 U	-	0.21 U	0.48 U	2.0 U
4-Chloro-3-methylphenol	µg/L	-	-	-	2.0 U	2.0 U	0.21 U	-	0.20 U	0.28 U	2.0 U
4-Chloroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.21 U	-	0.20 U	0.30 U	2.0 U
4-Chlorophenyl phenyl ether	µg/L	-	-	-	2.0 U	2.0 U	0.30 U	-	0.29 U	0.52 U	2.0 U
4-Methylphenol	µg/L	-	-	-	1.0 U	1.0 U	-	-	-	-	1.0 U
4-Nitroaniline	µg/L	-	-	-	2.0 U	2.0 U	0.22 U	-	0.21 U	0.87 U	2.0 U
4-Nitrophenol	µg/L	-	-	-	5.0 U	5.0 U	0.29 U	-	0.28 U	2.1 U	5.0 U
Acenaphthene	µg/L	-	-	-	0.20 U	0.20 U	0.044 U	-	0.043 U	0.16 U	0.20 U
Acenaphthylene	µg/L	-	-	-	0.20 U	0.20 U	0.048 U	-	0.047 U	0.12 U	0.20 U
Acetophenone	µg/L	-	-	-	1.0 U	1.0 U	0.34 U	-	0.33 U	0.35 U	1.0 U
Anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.088 U	-	0.085 U	0.13 U	0.20 U
Atrazine	µg/L	-	-	-	1.0 U	1.0 U	0.34 U	-	0.33 U	0.91 U	1.0 U
Benzaldehyde	µg/L	-	-	-	1.0 U	1.0 U	0.39 U	-	0.38 U	0.72 U	1.0 U
Benzo(a)anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.030 U	-	0.029 U	0.16 U	0.20 U
Benzo(a)pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.051 U	-	0.050 U	0.16 U	0.20 U
Benzo(b)fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.039 U	-	0.038 U	0.15 U	0.20 U
Benzo(g,h,i)perylene	µg/L	-	-	-	0.20 U	0.20 U	0.046 U	-	0.045 U	0.17 U	0.20 U
Benzo(k)fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.045 U	-	0.043 U	0.13 U	0.20 U
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	1.0 U	1.0 U	0.13 U	-	0.13 U	0.47 U	1.0 U
bis(2-Chloroethoxy)methane	µg/L	-	-	-	1.0 U	1.0 U	0.32 U	-	0.31 U	0.43 U	1.0 U
bis(2-Chloroethyl)ether	µg/L	-	-	-	1.0 U	1.0 U	0.10 U	-	0.097 U	0.38 U	1.0 UJ
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	2.0 U	2.0 U	1.7 U	-	1.7 U	2.1 U	0.89 J
Butyl benzylphthalate (BBP)	µg/L	-	-	-	1.0 U	1.0 U	0.26 U	-	0.25 U	0.63 U	1.0 U
Caprolactam	µg/L	-	-	-	5.0 U	5.0 U	0.27 J	-	0.19 U	0.89 U	5.0 UJ
Carbazole	µg/L	-	-	-	1.0 U	1.0 U	0.28 U	-	0.27 U	0.47 U	1.0 U
Chrysene	µg/L	-	-	-	0.20 U	0.20 U	0.050 U	-	0.049 U	0.18 U	0.20 U
Dibenz(a,h)anthracene	µg/L	-	-	-	0.20 U	0.20 U	0.045 U	-	0.043 U	0.14 U	0.20 U
Dibenzofuran	µg/L	-	-	-	1.0 U	1.0 U	0.020 U	-	0.019 U	0.53 U	1.0 U
Diethyl phthalate	µg/L	-	-	-	1.0 U	1.0 U	0.60 U	-	0.58 U	3.6 U	1.0 U
Dimethyl phthalate	µg/L	-	-	-	1.0 U	1.0 U	0.29 U	-	0.28 U	0.49 U	1.0 U
Di-n-butylphthalate (DBP)	µg/L	-	-	-	1.0 U	1.0 U	1.7 U	-	1.7 U	1.7 U	1.0 U
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	1.0 U	1.0 U	0.23 U	-	0.22 U	0.78 U	1.0 U
Fluoranthene	µg/L	-	-	-	0.20 U	0.20 U	0.045 U	-	0.043 U	0.15 U	0.20 U
Fluorene	µg/L	-	-	-	0.20 U	0.20 U	0.041 U	-	0.039 U	0.16 U	0.20 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-218A	MW-218A	MW-218A	MW-226	MW-226	MW-234	VAS-13
Sample ID:		GW-38443-060709-DR-034	GW-38443-060709-DR-035	GW-38443-060709-DR-036	GW-38443-072109-GL-001	GW-38443-122209-DR-003	GW-38443-100517-DA-010	GW-38443-041410-NZ-010	GW-38443-100417-SCT-007	GW-38443-101618-AS-216	GW-38443-120108-DD-144
Sample Date:		6/7/2009	6/7/2009	6/7/2009	7/21/2009	12/22/2009	10/5/2017	4/14/2010	10/4/2017	10/16/2018	12/1/2008
Sample Depth:		42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	12-22 ft BGS	12-22 ft BGS	12-22 ft BGS	8.5-18.5 ft BGS	8.5-18.5 ft BGS	25-35 ft BGS	12-17 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	-	-	-	0.20 U	0.20 U	0.085 U	-	0.083 U	0.15 U	0.20 U
Hexachlorobutadiene	µg/L	-	-	-	1.0 U	1.0 U	0.27 U	-	0.26 U	0.52 U	1.0 U
Hexachlorocyclopentadiene	µg/L	-	-	-	10 U	10 U	0.24 U	-	0.23 UJ	1.7 U	10 UJ
Hexachloroethane	µg/L	-	-	-	1.0 U	1.0 U	0.19 U	-	0.18 U	0.38 U	1.0 U
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.043 U	-	0.042 U	0.13 U	0.20 U
Isophorone	µg/L	-	-	-	1.0 U	1.0 U	0.27 U	-	0.26 U	0.31 U	1.0 U
Naphthalene	µg/L	-	-	-	0.20 U	0.20 U	0.063 U	-	0.061 U	0.10 U	0.20 U
Nitrobenzene	µg/L	-	-	-	1.0 U	1.0 U	0.040 U	-	0.039 U	0.49 U	1.0 U
N-Nitrosodi-n-propylamine	µg/L	-	-	-	1.0 U	1.0 U	0.24 U	-	0.23 U	0.24 U	1.0 U
N-Nitrosodiphenylamine	µg/L	-	-	-	1.0 U	1.0 U	0.31 U	-	0.30 U	0.42 U	1.0 U
Pentachlorophenol	µg/L	-	-	-	5.0 U	5.0 U	0.27 U	-	0.26 U	3.0 U	5.0 U
Phenanthrene	µg/L	-	-	-	0.20 U	0.20 U	0.062 U	-	0.060 U	0.16 U	0.20 U
Phenol	µg/L	-	-	-	1.0 U	1.0 U	0.60 U	-	0.58 U	0.12 U	1.0 U
Pyrene	µg/L	-	-	-	0.20 U	0.20 U	0.042 U	-	0.041 U	0.17 U	0.20 U
Metals											
Aluminum	µg/L	-	-	-	200 U	200 U	34 U	-	76	240	-
Aluminum (dissolved)	µg/L	-	-	-	200 U	200 U	34 U	-	34 U	34 U	-
Antimony	µg/L	-	-	-	0.46 J	0.27 J	0.57 U	-	0.57 U	0.57 U	-
Antimony (dissolved)	µg/L	-	-	-	0.45 J	0.23 J	0.57 U	-	0.57 U	0.57 U	-
Arsenic	µg/L	**47.9[ab]**	**27.6[ab]**	**36.5[ab]**	**0.74 J[b]**	**0.57 J[b]**	0.75 U	-	0.75 U	**1.1 J[b]**	**43.6[ab]**
Arsenic (dissolved)	µg/L	**1.1 J[b]**	**1.1 J[b]**	**1.2 J[b]**	**0.83 J[b]**	**0.56 J[b]**	0.75 U	-	0.75 U	0.75 U	-
Barium	µg/L	-	-	-	104 J	89.0 J	95	-	170	120	-
Barium (dissolved)	µg/L	-	-	-	104 J	89.8 J	97	-	180	120	-
Beryllium	µg/L	-	-	-	5.0 U	5.0 U	0.48 U	-	0.31 U	0.31 U	-
Beryllium (dissolved)	µg/L	-	-	-	5.0 U	5.0 U	0.31 U	-	0.31 U	0.31 U	-
Cadmium	µg/L	-	-	-	1.0 U	1.0 U	0.21 U	-	0.21 U	0.21 U	-
Cadmium (dissolved)	µg/L	-	-	-	1.0 U	1.0 U	0.21 U	-	0.21 U	0.21 U	-
Calcium	µg/L	-	-	-	51400	46100	42000	-	110000	59000	-
Calcium (dissolved)	µg/L	-	-	-	51300	45900	41000	-	110000	57000	-
Chromium	µg/L	-	-	-	10.0 U	10.0 U	0.98 U	-	0.98 U	0.98 U	-
Chromium (dissolved)	µg/L	-	-	-	10.0 U	10.0 U	0.98 U	-	0.98 U	0.98 U	-
Cobalt	µg/L	-	-	-	50.0 U	50.0 U	0.26 U	-	0.20 J	0.39 J	-
Cobalt (dissolved)	µg/L	-	-	-	50.0 U	50.0 U	0.19 U	-	0.19 U	0.23 J	-
Copper	µg/L	-	-	-	25.0 U	25.0 U	1.7 U	-	1.7 U	1.9 J	-
Copper (dissolved)	µg/L	-	-	-	25.0 U	25.0 U	1.7 U	-	1.7 U	1.7 U	-
Iron	µg/L	-	-	-	100 U	100 U	47 U	-	62 J	540	-
Iron (dissolved)	µg/L	-	-	-	100 U	100 U	47 U	-	47 U	47 U	-
Lead	µg/L	**37.1[ab]**	**31.8[ab]**	**37.9[ab]**	1.0 U	1.0 U	0.45 U	-	0.45 U	0.50 J	**40.8[ab]**
Lead (dissolved)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	-	0.45 U	0.45 U	-
Magnesium	µg/L	-	-	-	23300	28500	28000	-	36000	25000	-
Magnesium (dissolved)	µg/L	-	-	-	23300	28500	28000	-	36000	24000	-
Manganese	µg/L	-	-	-	**58.6[b]**	32.6	**77[b]**	-	22	**53[b]**	-
Manganese (dissolved)	µg/L	-	-	-	**59.3[b]**	32.0	**76[b]**	-	15	**46[b]**	-
Manganese 2+	µg/L	-	-	-	50 U	28 J	-	-	-	-	-
Mercury	µg/L	-	-	-	0.20 U	0.20 U	0.13 U	-	0.13 U	0.13 U	-
Mercury (dissolved)	µg/L	-	-	-	0.20 U	0.20 U	0.13 U	-	0.13 U	0.13 U	-
Nickel	µg/L	-	-	-	40.0 U	40.0 U	1.5 J	-	1.5 U	1.5 J	-
Nickel (dissolved)	µg/L	-	-	-	40.0 U	40.0 U	1.5 U	-	1.5 U	1.5 U	-

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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-218A	MW-218A	MW-218A	MW-226	MW-226	MW-234	VAS-13
Sample ID:		GW-38443-060709-DR-034	GW-38443-060709-DR-035	GW-38443-060709-DR-036	GW-38443-072109-GL-001	GW-38443-122209-DR-003	GW-38443-100517-DA-010	GW-38443-041410-NZ-010	GW-38443-100417-SCT-007	GW-38443-101618-AS-216	GW-38443-120108-DD-144
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Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	-	-	-	5040	3840 J	5400	-	4400	6300	-
Potassium (dissolved)	µg/L	-	-	-	5100	3860 J	5500	-	4900	6200	-
Selenium	µg/L	-	-	-	5.0 U	5.0 U	0.89 U	-	7.6	0.89 U	-
Selenium (dissolved)	µg/L	-	-	-	5.0 U	5.0 U	0.89 U	-	7.6	0.89 U	-
Silver	µg/L	-	-	-	1.0 U	1.0 U	0.053 U	-	0.11 U	0.053 U	-
Silver (dissolved)	µg/L	-	-	-	1.0 U	1.0 U	0.053 U	-	0.053 U	0.053 U	-
Sodium	µg/L	-	-	-	25100	26200	25000	-	120000	25000	-
Sodium (dissolved)	µg/L	-	-	-	25500	26100	25000	-	120000	24000	-
Thallium	µg/L	-	-	-	1.0 U	1.0 U	0.20 U	-	0.32 J[b]	0.20 U	-
Thallium (dissolved)	µg/L	-	-	-	1.0 U	1.0 U	0.20 U	-	0.20 U	0.20 U	-
Vanadium	µg/L	-	-	-	50.0 U	50.0 U	0.82 U	-	0.82 U	0.82 U	-
Vanadium (dissolved)	µg/L	-	-	-	50.0 U	50.0 U	0.82 U	-	0.82 U	0.82 U	-
Zinc	µg/L	-	-	-	20.0 U	20.0 U	15 U	-	15 U	15 U	-
Zinc (dissolved)	µg/L	-	-	-	20.0 U	20.0 U	15 U	-	15 U	15 U	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	0.20 U	0.20 U	0.051 U	-	0.048 U	0.053 U	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	0.20 U	0.20 U	0.092 U	-	0.086 U	0.054 U	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	0.20 U	0.20 U	0.071 U	-	0.067 U	0.070 U	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	0.20 U	0.20 U	0.061 U	-	0.057 U	0.072 U	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	0.20 U	0.20 U	0.051 U	-	0.048 U	0.048 U	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	0.20 U	0.20 U	0.031 U	-	0.029 U	0.038 U	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	0.20 U	0.20 U	0.041 U	-	0.038 U	0.044 U	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	0.050 U	0.050 U	0.018 U	-	0.017 U	0.0051 U	-
4,4'-DDE	µg/L	-	-	-	0.050 U	0.050 U	0.012 U	-	0.011 U	0.0041 U	-
4,4'-DDT	µg/L	-	-	-	0.050 U	0.050 U	0.017 U	-	0.016 U	0.0046 U	-
Aldrin	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	0.012 U	0.0023 U	-
alpha-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.014 U	-	0.013 U	0.0019 U	-
alpha-Chlordane	µg/L	-	-	-	0.050 U	0.050 U	0.012 U	-	0.011 U	0.0031 U	-
beta-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.018 U	-	0.017 U	0.0044 U	-
delta-BHC	µg/L	-	-	-	0.050 U	0.050 U	0.029 U	-	0.028 U	0.0041 U	-
Dieldrin	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	0.012 U	0.0022 U	-
Endosulfan I	µg/L	-	-	-	0.050 U	0.050 U	0.016 U	-	0.015 U	0.0036 U	-
Endosulfan II	µg/L	-	-	-	0.050 U	0.050 U	0.015 U	-	0.014 U	0.0022 U	-
Endosulfan sulfate	µg/L	-	-	-	0.050 U	0.050 U	0.015 U	-	0.014 U	0.0036 U	-
Endrin	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	0.012 U	0.0024 U	-
Endrin aldehyde	µg/L	-	-	-	0.050 U	0.050 U	0.018 U	-	0.017 U	0.0044 U	-
Endrin ketone	µg/L	-	-	-	0.050 U	0.050 U	0.016 U	-	0.015 U	0.0038 U	-
gamma-BHC (lindane)	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	0.012 U	0.0024 U	-
gamma-Chlordane	µg/L	-	-	-	0.050 U	0.050 U	0.013 U	-	0.012 U	0.0048 U	-
Heptachlor	µg/L	-	-	-	0.050 U	0.050 U	0.014 U	-	0.013 U	0.0032 U	-
Heptachlor epoxide	µg/L	-	-	-	0.050 U	0.050 U	0.015 U	-	0.014 U	0.0025 U	-
Methoxychlor	µg/L	-	-	-	0.10 U	0.10 UJ	0.013 U	-	0.012 U	0.0045 U	-
Toxaphene	µg/L	-	-	-	2.0 U	2.0 U	0.20 U	-	0.19 U	0.056 U	-
Gases											
Ethane	µg/L	-	-	-	0.50 U	0.50 UJ	-	-	-	-	-
Ethene	µg/L	-	-	-	0.50 U	0.50 UJ	-	-	-	-	-
Methane	µg/L	-	-	-	39	16	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-218A**	**MW-218A**	**MW-218A**	**MW-226**	**MW-226**	**MW-234**	**VAS-13**
Sample ID:		**GW-38443-060709-DR-034**	**GW-38443-060709-DR-035**	**GW-38443-060709-DR-036**	**GW-38443-072109-GL-001**	**GW-38443-122209-DR-003**	**GW-38443-100517-DA-010**	**GW-38443-041410-NZ-010**	**GW-38443-100417-SCT-007**	**GW-38443-101618-AS-216**	**GW-38443-120108-DD-144**
Sample Date:		**6/7/2009**	**6/7/2009**	**6/7/2009**	**7/21/2009**	**12/22/2009**	**10/5/2017**	**4/14/2010**	**10/4/2017**	**10/16/2018**	**12/1/2008**
Sample Depth:		**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**8.5-18.5 ft BGS**	**8.5-18.5 ft BGS**	**25-35 ft BGS**	**12-17 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	0.24 U	-	0.24 U	0.57 U	-
2,4,5-TP (Silvex)	µg/L	-	-	-	1.0 U	-	0.20 U	-	0.20 U	0.43 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	4.0 U	-	1.1 U	-	1.1 U	2.2 U	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	194000	199000	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	43100	42800	38000	-	200000	33000	-
Cyanide (total)	µg/L	-	-	-	10 U	-	5.0 U	-	5.0 U	6 U	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	3000	2000	-	-	-	-	-
Hardness	µg/L	-	-	-	224000	232000	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	100 U	100 U	14 U	-	4200[b]	14 U	-
Nitrite (as N)	µg/L	-	-	-	100 U	100 U	14 U	-	14 U	14 U	-
Sulfate	µg/L	-	-	-	33200	32500	28000	-	58000	26000	-
Sulfide (acid soluble)	µg/L	-	-	-	3000 U	3000 U	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-13	VAS-13	VAS-13	VAS-13	VAS-13	VAS-13	VAS-20	VAS-20	VAS-20
Sample ID:		GW-38443-120208-DD-145	GW-38443-120208-DD-146	GW-38443-120208-DD-147	GW-38443-120208-DD-148	GW-38443-120208-DD-149	GW-38443-120208-DD-150	GW-38443-011109-KMV-229	GW-38443-011109-KMV-230	GW-38443-011109-KMV-231
Sample Date:		12/2/2008	12/2/2008	12/2/2008	12/2/2008	12/2/2008	12/2/2008	1/11/2009	1/11/2009	1/11/2009
Sample Depth:		17-22 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Acetone	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	µg/L	0.13 J	1.0 U	0.27 J	0.14 J	1.0 U	1.0 U	0.44 J	0.47 J	0.49 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	0.39 J	0.47 J
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.71 J	0.61 J	0.68 J
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.4	1.7	1.5	1.1	0.49 J	0.35 J	1.8	1.7	1.8
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.78 J	0.75 J	0.78 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-20**
Sample ID:		**GW-38443-120208-DD-145**	**GW-38443-120208-DD-146**	**GW-38443-120208-DD-147**	**GW-38443-120208-DD-148**	**GW-38443-120208-DD-149**	**GW-38443-120208-DD-150**	**GW-38443-011109-KMV-229**	**GW-38443-011109-KMV-230**	**GW-38443-011109-KMV-231**
Sample Date:		**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**1/11/2009**	**1/11/2009**	**1/11/2009**
Sample Depth:		**17-22 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Semi-Volatiles										
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
2,4,5-Trichlorophenol	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
2,4,6-Trichlorophenol	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
2,4-Dichlorophenol	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
2,4-Dimethylphenol	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
2,4-Dinitrophenol	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
2,4-Dinitrotoluene	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
2,6-Dinitrotoluene	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
2-Chloronaphthalene	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
2-Chlorophenol	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
2-Methylnaphthalene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
2-Methylphenol	µg/L	1.0 UJ	-	-	-	-	-	1.0 U	-	-
2-Nitroaniline	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
2-Nitrophenol	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
3-Nitroaniline	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
4-Bromophenyl phenyl ether	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
4-Chloro-3-methylphenol	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
4-Chloroaniline	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
4-Chlorophenyl phenyl ether	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
4-Methylphenol	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
4-Nitroaniline	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
4-Nitrophenol	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
Acenaphthene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Acenaphthylene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Acetophenone	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Anthracene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Atrazine	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Benzaldehyde	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Benzo(a)anthracene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Benzo(a)pyrene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Benzo(b)fluoranthene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Benzo(g,h,i)perylene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Benzo(k)fluoranthene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
bis(2-Chloroethoxy)methane	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
bis(2-Chloroethyl)ether	µg/L	1.0 UJ	-	-	-	-	-	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.0 U	-	-	-	-	-	2.0 U	-	-
Butyl benzylphthalate (BBP)	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Caprolactam	µg/L	5.0 UJ	-	-	-	-	-	5.0 UJ	-	-
Carbazole	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Chrysene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Dibenz(a,h)anthracene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Dibenzofuran	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Diethyl phthalate	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Dimethyl phthalate	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Di-n-butylphthalate (DBP)	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Fluoranthene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Fluorene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-20**
Sample ID:		**GW-38443-120208-DD-145**	**GW-38443-120208-DD-146**	**GW-38443-120208-DD-147**	**GW-38443-120208-DD-148**	**GW-38443-120208-DD-149**	**GW-38443-120208-DD-150**	**GW-38443-011109-KMV-229**	**GW-38443-011109-KMV-230**	**GW-38443-011109-KMV-231**
Sample Date:		**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**1/11/2009**	**1/11/2009**	**1/11/2009**
Sample Depth:		**17-22 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Semi-Volatiles (cont'd)										
Hexachlorobenzene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Hexachlorobutadiene	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Hexachlorocyclopentadiene	µg/L	10 UJ	-	-	-	-	-	10 U	-	-
Hexachloroethane	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Isophorone	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Naphthalene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Nitrobenzene	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
N-Nitrosodi-n-propylamine	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
N-Nitrosodiphenylamine	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Pentachlorophenol	µg/L	5.0 U	-	-	-	-	-	5.0 U	-	-
Phenanthrene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Phenol	µg/L	1.0 U	-	-	-	-	-	1.0 U	-	-
Pyrene	µg/L	0.20 U	-	-	-	-	-	0.20 U	-	-
Metals										
Aluminum	µg/L	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**165[ab]**	**101[ab]**	**93.6[ab]**	**32.2[ab]**	**5.7[b]**	**6.3[b]**	**34.4[ab]**	**129[ab]**	**60.8[ab]**
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Lead	µg/L	**33.0[ab]**	**17.8[ab]**	**37.5[ab]**	12.7	1.8	2.3	**29.6[ab]**	**98.9[ab]**	**46.1[ab]**
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-20**
Sample ID:		**GW-38443-120208-DD-145**	**GW-38443-120208-DD-146**	**GW-38443-120208-DD-147**	**GW-38443-120208-DD-148**	**GW-38443-120208-DD-149**	**GW-38443-120208-DD-150**	**GW-38443-011109-KMV-229**	**GW-38443-011109-KMV-230**	**GW-38443-011109-KMV-231**
Sample Date:		**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**1/11/2009**	**1/11/2009**	**1/11/2009**
Sample Depth:		**17-22 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Metals (cont'd)										
Potassium	µg/L	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
PCBs										
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-
Gases										
Ethane	µg/L	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-20**
Sample ID:		**GW-38443-120208-DD-145**	**GW-38443-120208-DD-146**	**GW-38443-120208-DD-147**	**GW-38443-120208-DD-148**	**GW-38443-120208-DD-149**	**GW-38443-120208-DD-150**	**GW-38443-011109-KMV-229**	**GW-38443-011109-KMV-230**	**GW-38443-011109-KMV-231**
Sample Date:		**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**1/11/2009**	**1/11/2009**	**1/11/2009**
Sample Depth:		**17-22 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Herbicides										
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-
General Chemistry										
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-20	VAS-20	VAS-20	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-24
Sample ID:		GW-38443-011109-KMV-232	GW-38443-011109-KMV-233	GW-38443-011109-KMV-234	GW-38443-120408-DD-159	GW-38443-120408-DD-160	GW-38443-120408-DD-161	GW-38443-120408-DD-162	GW-38443-120508-DD-163	GW-38443-010709-DD-211
Sample Date:		1/11/2009	1/11/2009	1/11/2009	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/5/2008	1/7/2009
Sample Depth:		37-42 ft BGS	37-42 ft BGS Duplicate	42-47 ft BGS	27-32.5 ft BGS	27-32.5 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	27-32 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	1.0 U	1.0 U	0.24 J	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Cyclohexane	µg/L	0.35 J	0.32 J	0.14 J	0.16 J	0.16 J	0.12 J	0.16 J	0.12 J	0.56 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	µg/L	0.32 J	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 J
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	0.53 J	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.58 J
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.3	1.4	0.59 J	4.8	3.5	2.2	2.2	0.75 J	4.4
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.80 J[b]
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	0.56 J	0.51 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.61 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-20**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-24**
Sample ID:		**GW-38443-011109-KMV-232**	**GW-38443-011109-KMV-233**	**GW-38443-011109-KMV-234**	**GW-38443-120408-DD-159**	**GW-38443-120408-DD-160**	**GW-38443-120408-DD-161**	**GW-38443-120408-DD-162**	**GW-38443-120508-DD-163**	**GW-38443-010709-DD-211**
Sample Date:		**1/11/2009**	**1/11/2009**	**1/11/2009**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/5/2008**	**1/7/2009**
Sample Depth:		**37-42 ft BGS**	**37-42 ft BGS Duplicate**	**42-47 ft BGS**	**27-32.5 ft BGS**	**27-32.5 ft BGS Duplicate**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**27-32 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Semi-Volatiles										
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
2,4,5-Trichlorophenol	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
2,4,6-Trichlorophenol	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
2,4-Dichlorophenol	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
2,4-Dimethylphenol	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
2,4-Dinitrophenol	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
2,4-Dinitrotoluene	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
2,6-Dinitrotoluene	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
2-Chloronaphthalene	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
2-Chlorophenol	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
2-Methylnaphthalene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
2-Methylphenol	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
2-Nitroaniline	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
2-Nitrophenol	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
3-Nitroaniline	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
4,6-Dinitro-2-methylphenol	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
4-Bromophenyl phenyl ether	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
4-Chloro-3-methylphenol	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
4-Chloroaniline	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
4-Chlorophenyl phenyl ether	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
4-Methylphenol	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
4-Nitroaniline	µg/L	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U
4-Nitrophenol	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
Acenaphthene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Acenaphthylene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Acetophenone	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Anthracene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Atrazine	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Benzaldehyde	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Benzo(a)anthracene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Benzo(a)pyrene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Benzo(b)fluoranthene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Benzo(g,h,i)perylene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Benzo(k)fluoranthene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Biphenyl (1,1-Biphenyl)	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
bis(2-Chloroethoxy)methane	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
bis(2-Chloroethyl)ether	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	3.3	0.90 J	2.0 U	0.90 J	-	-	2.0 U
Butyl benzylphthalate (BBP)	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Caprolactam	µg/L	-	-	5.0 UJ	5.0 U	5.0 U	5.0 U	-	-	5.0 U
Carbazole	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Chrysene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Dibenz(a,h)anthracene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Dibenzofuran	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Diethyl phthalate	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Dimethyl phthalate	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Di-n-butylphthalate (DBP)	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Di-n-octyl phthalate (DnOP)	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Fluoranthene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Fluorene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-20**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-24**
Sample ID:		**GW-38443-011109-KMV-232**	**GW-38443-011109-KMV-233**	**GW-38443-011109-KMV-234**	**GW-38443-120408-DD-159**	**GW-38443-120408-DD-160**	**GW-38443-120408-DD-161**	**GW-38443-120408-DD-162**	**GW-38443-120508-DD-163**	**GW-38443-010709-DD-211**
Sample Date:		**1/11/2009**	**1/11/2009**	**1/11/2009**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/5/2008**	**1/7/2009**
Sample Depth:		**37-42 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**27-32.5 ft BGS**	**27-32.5 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**27-32 ft BGS**
			Duplicate			**Duplicate**				
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Semi-Volatiles (cont'd)										
Hexachlorobenzene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Hexachlorobutadiene	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Hexachlorocyclopentadiene	µg/L	-	-	10 U	10 U	10 U	10 U	-	-	10 U
Hexachloroethane	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Indeno(1,2,3-cd)pyrene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Isophorone	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Naphthalene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Nitrobenzene	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
N-Nitrosodi-n-propylamine	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
N-Nitrosodiphenylamine	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Pentachlorophenol	µg/L	-	-	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U
Phenanthrene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Phenol	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U
Pyrene	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U
Metals										
Aluminum	µg/L	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**46.3[ab]**	**31.3[ab]**	**8.6[b]**	**49.6[ab]**	**50.9[ab]**	**48.6[ab]**	**30.1[ab]**	**67.6[ab]**	**67.6[ab]**
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Lead	µg/L	**45.6[ab]**	**30.2[ab]**	6.7	**63.3[ab]**	**64.0[ab]**	**70.0[ab]**	**39.9[ab]**	**128[ab]**	**69.3[ab]**
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-20	VAS-20	VAS-20	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-24
Sample ID:		GW-38443-011109-KMV-232	GW-38443-011109-KMV-233	GW-38443-011109-KMV-234	GW-38443-120408-DD-159	GW-38443-120408-DD-160	GW-38443-120408-DD-161	GW-38443-120408-DD-162	GW-38443-120508-DD-163	GW-38443-010709-DD-211
Sample Date:		1/11/2009	1/11/2009	1/11/2009	12/4/2008	12/4/2008	12/4/2008	12/4/2008	12/5/2008	1/7/2009
Sample Depth:		37-42 ft BGS	37-42 ft BGS	42-47 ft BGS	27-32.5 ft BGS	27-32.5 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	27-32 ft BGS
			Duplicate			Duplicate				
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Metals (cont'd)										
Potassium	µg/L	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
PCBs										
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-
Gases										
Ethane	µg/L	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-20**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-24**
Sample ID:		**GW-38443-011109-KMV-232**	**GW-38443-011109-KMV-233**	**GW-38443-011109-KMV-234**	**GW-38443-120408-DD-159**	**GW-38443-120408-DD-160**	**GW-38443-120408-DD-161**	**GW-38443-120408-DD-162**	**GW-38443-120508-DD-163**	**GW-38443-010709-DD-211**
Sample Date:		**1/11/2009**	**1/11/2009**	**1/11/2009**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/5/2008**	**1/7/2009**
Sample Depth:		**37-42 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**27-32.5 ft BGS**	**27-32.5 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**27-32 ft BGS**
			Duplicate			**Duplicate**				
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Herbicides										
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-
General Chemistry										
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-25**	**VAS-25**	**VAS-25**
Sample ID:		**GW-38443-010709-DD-212**	**GW-38443-010709-DD-213**	**GW-38443-010709-DD-214**	**GW-38443-010709-DD-215**	**GW-38443-010709-DD-216**	**GW-38443-010709-DD-217**	**GW-38443-120608-KMV-060**	**GW-38443-120608-KMV-061**	**GW-38443-120608-KMV-062**
Sample Date:		**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**12/6/2008**	**12/6/2008**	**12/6/2008**
Sample Depth:		**32-37 ft BGS**	**32-37 ft BGS Duplicate**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**30-35 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	13	12 J	6.8 J	8.3	6.5	5.2	2.7	13	14
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	0.31 J	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	0.22 J
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.4 J	1.2 J
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	1.4 J	10 U	10 U	10 U	10 U	4.2 J	3.9 J
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.56 J[b]**	**0.53 J[b]**
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.31 J[b]**	1.0 UJ	1.0 UJ
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.5[b]**	**0.28 J[b]**	**0.27 J[b]**
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.60 J	0.99 J	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	µg/L	0.39 J	0.38 J	0.44 J	0.36 J	0.32 J	0.43 J	1.0 U	0.57 J	0.66 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	0.22 J	0.21 J	0.23 J	0.20 J	1.0 U	0.21 J	1.0 UJ	0.45 J	0.42 J
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.61 J	0.72 J
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	µg/L	3.0	3.1	2.5	2.4	1.6	2.1	0.19 J	1.2	1.2
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	µg/L	**1.0[b]**	**0.96 J[b]**	**3.8 J[b]**	**4.5[b]**	**12[ab]**	**11[ab]**	1.0 U	**3.5[b]**	**3.8[b]**
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	0.50 J	2.0 U	2.0 U	2.0 U	2.0 UJ	1.8 J	0.94 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-24	VAS-24	VAS-24	VAS-24	VAS-24	VAS-24	VAS-25	VAS-25	VAS-25
Sample ID:		GW-38443-010709-DD-212	GW-38443-010709-DD-213	GW-38443-010709-DD-214	GW-38443-010709-DD-215	GW-38443-010709-DD-216	GW-38443-010709-DD-217	GW-38443-120608-KMV-060	GW-38443-120608-KMV-061	GW-38443-120608-KMV-062
Sample Date:		1/7/2009	1/7/2009	1/7/2009	1/7/2009	1/7/2009	1/7/2009	12/6/2008	12/6/2008	12/6/2008
Sample Depth:		32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	25-30 ft BGS	30-35 ft BGS	30-35 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Semi-Volatiles										
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
2,4,5-Trichlorophenol	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
2,4,6-Trichlorophenol	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
2,4-Dichlorophenol	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
2,4-Dimethylphenol	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
2,4-Dinitrophenol	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
2,4-Dinitrotoluene	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
2,6-Dinitrotoluene	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
2-Chloronaphthalene	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
2-Chlorophenol	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
2-Methylnaphthalene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
2-Methylphenol	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
2-Nitroaniline	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
2-Nitrophenol	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
3-Nitroaniline	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
4-Bromophenyl phenyl ether	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
4-Chloro-3-methylphenol	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
4-Chloroaniline	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
4-Chlorophenyl phenyl ether	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
4-Methylphenol	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
4-Nitroaniline	µg/L	2.0 U	2.0 U	-	-	-	2.0 U	2.0 U	-	-
4-Nitrophenol	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
Acenaphthene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.33	-	-
Acenaphthylene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.30	-	-
Acetophenone	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Anthracene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Atrazine	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Benzaldehyde	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Benzo(a)anthracene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Benzo(a)pyrene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Benzo(b)fluoranthene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Benzo(g,h,i)perylene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Benzo(k)fluoranthene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
bis(2-Chloroethoxy)methane	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
bis(2-Chloroethyl)ether	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.0 U	0.86 J	-	-	-	0.96 J	2.0 U	-	-
Butyl benzylphthalate (BBP)	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Caprolactam	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 UJ	-	-
Carbazole	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Chrysene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Dibenz(a,h)anthracene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Dibenzofuran	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Diethyl phthalate	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Dimethyl phthalate	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Di-n-butylphthalate (DBP)	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Fluoranthene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Fluorene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-24	VAS-24	VAS-24	VAS-24	VAS-24	VAS-24	VAS-25	VAS-25	VAS-25
Sample ID:		GW-38443-010709-DD-212	GW-38443-010709-DD-213	GW-38443-010709-DD-214	GW-38443-010709-DD-215	GW-38443-010709-DD-216	GW-38443-010709-DD-217	GW-38443-120608-KMV-060	GW-38443-120608-KMV-061	GW-38443-120608-KMV-062
Sample Date:		1/7/2009	1/7/2009	1/7/2009	1/7/2009	1/7/2009	1/7/2009	12/6/2008	12/6/2008	12/6/2008
Sample Depth:		32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	25-30 ft BGS	30-35 ft BGS	30-35 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Semi-Volatiles (cont'd)										
Hexachlorobenzene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Hexachlorobutadiene	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Hexachlorocyclopentadiene	µg/L	10 U	10 U	-	-	-	10 U	10 U	-	-
Hexachloroethane	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Isophorone	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Naphthalene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Nitrobenzene	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
N-Nitrosodi-n-propylamine	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
N-Nitrosodiphenylamine	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Pentachlorophenol	µg/L	5.0 U	5.0 U	-	-	-	5.0 U	5.0 U	-	-
Phenanthrene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Phenol	µg/L	1.0 U	1.0 U	-	-	-	1.0 U	1.0 U	-	-
Pyrene	µg/L	0.20 U	0.20 U	-	-	-	0.20 U	0.20 U	-	-
Metals										
Aluminum	µg/L	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**38.0[ab]**	**37.4[ab]**	**52.2[ab]**	**27.4[ab]**	**97.4[ab]**	**57.8[ab]**	**16.5[ab]**	**46.7[ab]**	**39.8[ab]**
Arsenic (dissolved)	µg/L	-	-	**18.9[ab]**	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Lead	µg/L	**38.8[ab]**	**38.8[ab]**	**43.2[ab]**	**24.1[ab]**	**102[ab]**	**55.5[ab]**	12.8	**49.9[ab]**	**42.2[ab]**
Lead (dissolved)	µg/L	-	-	14.7	-	-	-	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-25**	**VAS-25**	**VAS-25**
Sample ID:		**GW-38443-010709-DD-212**	**GW-38443-010709-DD-213**	**GW-38443-010709-DD-214**	**GW-38443-010709-DD-215**	**GW-38443-010709-DD-216**	**GW-38443-010709-DD-217**	**GW-38443-120608-KMV-060**	**GW-38443-120608-KMV-061**	**GW-38443-120608-KMV-062**
Sample Date:		**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**12/6/2008**	**12/6/2008**	**12/6/2008**
Sample Depth:		**32-37 ft BGS**	**32-37 ft BGS Duplicate**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**30-35 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Metals (cont'd)										
Potassium	µg/L	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-
PCBs										
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-
Pesticides										
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-
Gases										
Ethane	µg/L	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-25**	**VAS-25**	**VAS-25**
Sample ID:		**GW-38443-010709-DD-212**	**GW-38443-010709-DD-213**	**GW-38443-010709-DD-214**	**GW-38443-010709-DD-215**	**GW-38443-010709-DD-216**	**GW-38443-010709-DD-217**	**GW-38443-120608-KMV-060**	**GW-38443-120608-KMV-061**	**GW-38443-120608-KMV-062**
Sample Date:		**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**12/6/2008**	**12/6/2008**	**12/6/2008**
Sample Depth:		**32-37 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**30-35 ft BGS**
			Duplicate							**Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Herbicides										
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-
General Chemistry										
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-25**	**VAS-35**	**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-120708-KMV-063**	**GW-38443-121817-KVM-006**	**GW-38443-121817-KVM-007**	**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**	**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**
Sample Date:		**12/7/2008**	**12/18/2017**	**12/18/2017**	**10/4/2018**	**10/4/2018**	**10/4/2018**	**10/5/2018**	**10/5/2018**	**10/5/2018**	**10/8/2018**
Sample Depth:		**50-55 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.29 J	0.23 U	0.23 U	2.3	3.2 J	5.3	3.9 J	1.2	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	0.32 U	0.32 U	0.13 U	0.13 UJ	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	1.0 U	0.34 U	0.34 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.64 J	0.25 U	0.25 U	0.17 U	0.17 UJ	0.17 U	0.17 UJ	0.17 U	0.18 J	0.17 U
1,1-Dichloroethene	µg/L	1.0 U	0.27 U	0.27 U	0.19 U	0.19 UJ	0.19 U	0.42 J	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	0.27 U	0.27 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	0.0084 U	0.0084 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	0.0071 U	0.0071 U	**0.036**[b]	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.0 U	0.26 U	0.26 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	1.0 U	0.30 U	0.30 U	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 U	0.21 U	0.21 UJ
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	0.30 U	0.30 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	1.0 U	0.32 U	0.32 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	1.0 U	0.23 U	0.23 U	0.16 U	0.16 UJ	0.16 U	0.16 UJ	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	1.0 U	1.0 U	1.2 U	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	10 U	1.2 U	1.2 U	0.54 U	0.54 UJ	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	0.71 U	0.71 U	0.42 U	0.42 UJ	0.42 U	0.42 UJ	0.42 U	0.42 U	0.42 UJ
Acetone	µg/L	10 UJ	1.8 U	1.8 UJ	5.4 U	5.4 UJ	5.4 U	5.4 UJ	5.4 U	5.4 U	5.4 U
Benzene	µg/L	**0.53 J**[b]	0.28 U	0.28 U	0.13 U	0.13 UJ	0.13 U	0.16 J	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	1.0 U	0.30 U	0.30 U	0.17 U	0.17 UJ	0.17 U	0.17 UJ	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	1.0 U	0.43 U	0.43 U	0.76 U	0.76 UJ	0.76 U	0.76 UJ	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	0.42 UJ	0.42 U	0.42 U	0.42 UJ	0.42 U	0.42 UJ	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	1.0 U	0.34 U	0.34 U	0.28 U	0.28 UJ	0.28 U	0.28 UJ	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	1.0 U	0.35 U	0.35 U	0.26 U	0.26 UJ	0.26 U	0.26 UJ	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	1.0 U	0.32 U	0.32 U	0.14 U	0.14 UJ	0.14 U	0.14 UJ	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	1.0 U	0.41 UJ	0.41 UJ	0.83 U	0.83 UJ	0.83 U	0.83 UJ	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	1.0 U	0.31 U	0.31 U	0.13 U	0.13 UJ	0.13 U	0.13 UJ	0.17 J	0.22 J	**0.30 J**[b]
Chloromethane (Methyl chloride)	µg/L	1.0 U	0.43 U	0.43 U	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	**10**[b]	1.9 J	1.9	0.16 U	0.16 UJ	0.16 U	0.16 UJ	0.16 U	0.16 U	0.55 J
cis-1,3-Dichloropropene	µg/L	1.0 U	0.26 U	0.26 U	0.61 U	0.61 UJ	0.61 U	0.61 UJ	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.22 J	0.44 U	1.1	0.24 U	0.24 UJ	0.24 U	0.24 UJ	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	1.0 U	0.25 U	0.25 U	0.39 U	0.39 UJ	0.39 U	0.39 UJ	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	0.50 U	0.50 U	0.35 U	0.35 UJ	0.35 U	0.35 UJ	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	1.0 U	0.26 U	0.26 U	0.11 U	0.11 UJ	0.11 U	0.11 UJ	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	1.0 U	0.21 U	0.21 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	-	0.24 U	0.24 U	0.080 U	0.080 UJ	0.080 U	0.14 J	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	10 U	1.4 U	1.4 U	1.7 U	1.7 UJ	1.7 U	1.7 UJ	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	1.0 U	0.45 U	0.45 U	0.33 U	0.33 UJ	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	0.27 U	0.27 U	0.070 U	0.070 UJ	0.070 U	0.070 UJ	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	1.0 U	0.53 U	0.53 U	2.6 U	2.6 UJ	2.6 U	2.6 UJ	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	-	0.28 U	0.28 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U
Styrene	µg/L	1.0 U	0.23 U	0.23 U	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	1.0 UJ	0.30 U	0.30 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.48 J	0.23 U	0.24 J	0.35 U	0.50 UJ	0.45 U	0.53 J	0.42 J	0.41 J	0.41 J
trans-1,2-Dichloroethene	µg/L	1.7	0.29 U	0.29 U	0.19 U	0.19 UJ	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	1.0 U	0.31 U	0.31 U	0.67 U	0.67 UJ	0.67 U	0.67 UJ	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	**0.33 J**[b]	0.33 U	0.33 U	0.10 U	**0.61 J**[b]	**1.1**[b]	**0.97 J**[b]	**1.7**[b]	**1.8**[b]	**1.0**[b]
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	0.50 U	0.50 U	0.45 U	0.45 UJ	0.45 U	0.45 UJ	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	0.41 U	0.41 UJ	0.41 U	0.41 UJ	0.41 U	0.41 UJ	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	1.0 U	0.45 U	0.45 U	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	2.0 U	0.24 U	0.24 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-25**	**VAS-35**	**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-120708-KMV-063**	**GW-38443-121817-KVM-006**	**GW-38443-121817-KVM-007**	**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**	**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**
Sample Date:		**12/7/2008**	**12/18/2017**	**12/18/2017**	**10/4/2018**	**10/4/2018**	**10/4/2018**	**10/5/2018**	**10/5/2018**	**10/5/2018**	**10/8/2018**
Sample Depth:		**50-55 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.0 U	0.40 U	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	5.0 U	0.30 U	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	5.0 U	0.24 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	2.0 U	0.19 U	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	2.0 U	0.25 U	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	5.0 U	0.32 U	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	5.0 U	0.25 U	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	5.0 U	0.79 U	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	1.0 U	0.099 U	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	1.0 U	0.29 U	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	0.20 U	0.090 U	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	1.0 U	0.17 U	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	2.0 U	0.21 U	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	2.0 U	0.28 U	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	0.79 U	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	5.0 U	0.37 U	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	2.0 U	0.28 U	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	5.0 U	2.4 U	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	2.0 U	0.22 U	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	2.0 U	0.21 U	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	2.0 U	0.21 U	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	2.0 U	0.30 U	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	1.0 U	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	2.0 U	0.22 U	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	5.0 U	0.29 U	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	0.20 U	0.044 U	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	0.20 U	0.048 U	-	-	-	-	-	-	-	-
Acetophenone	µg/L	1.0 U	0.34 U	-	-	-	-	-	-	-	-
Anthracene	µg/L	0.20 U	0.087 U	-	-	-	-	-	-	-	-
Atrazine	µg/L	1.0 U	0.34 U	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	1.0 U	0.39 U	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	0.20 U	**0.14 J[b]**	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.20 U	0.051 U	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	0.20 U	0.039 U	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	0.20 U	0.046 U	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	0.20 U	0.044 U	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	1.0 U	0.13 U	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	1.0 U	0.32 U	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	1.0 U	0.099 U	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.4 J	1.7 U	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	1.0 U	0.26 U	-	-	-	-	-	-	-	-
Caprolactam	µg/L	5.0 UJ	0.20 U	-	-	-	-	-	-	-	-
Carbazole	µg/L	1.0 U	0.28 U	-	-	-	-	-	-	-	-
Chrysene	µg/L	0.20 U	0.14 J	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	0.20 U	0.044 U	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	1.0 U	0.020 U	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	1.0 U	0.59 U	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	1.0 U	0.29 U	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	1.0 U	1.7 U	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	1.0 U	0.23 U	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	0.20 U	0.22	-	-	-	-	-	-	-	-
Fluorene	µg/L	0.20 U	0.040 U	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-25**	**VAS-35**	**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-120708-KMV-063**	**GW-38443-121817-KVM-006**	**GW-38443-121817-KVM-007**	**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**	**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**
Sample Date:		**12/7/2008**	**12/18/2017**	**12/18/2017**	**10/4/2018**	**10/4/2018**	**10/4/2018**	**10/5/2018**	**10/5/2018**	**10/5/2018**	**10/8/2018**
Sample Depth:		**50-55 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	0.20 U	0.084 U	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	1.0 U	0.27 U	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	10 U	0.24 U	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	1.0 U	0.19 U	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.20 U	0.043 U	-	-	-	-	-	-	-	-
Isophorone	µg/L	1.0 U	0.27 U	-	-	-	-	-	-	-	-
Naphthalene	µg/L	0.20 U	0.062 U	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	1.0 U	0.040 U	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	1.0 U	0.24 U	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	1.0 U	0.31 U	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	5.0 U	0.27 U	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	0.20 U	0.27	-	-	-	-	-	-	-	-
Phenol	µg/L	1.0 U	0.59 U	-	-	-	-	-	-	-	-
Pyrene	µg/L	0.20 U	0.24	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	**2200[b]**	**2300[b]**	**4000[b]**	**130000[b]**	**130000[b]**	**29000[b]**	**5400[b]**	**5800[b]**	130
Aluminum (dissolved)	µg/L	-	34 U	34 U	49 J	34 U	93	**2700[b]**	380 U	670 U	34 U
Antimony	µg/L	-	1.4 U	0.82 U	0.61 J	**2.5[b]**	**2.6[b]**	**1.0 J[b]**	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	-	0.57 U	1.0 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	**67.6[ab]**	**29[ab]**	**320[ab]**	**5.8[b]**	**180[ab]**	**180[ab]**	**45[ab]**	**4.9 J[b]**	**4.1 J[b]**	**1.2 J[b]**
Arsenic (dissolved)	µg/L	-	**23[ab]**	**240[ab]**	0.75 U	0.75 U	0.75 U	**2.9 J[b]**	0.75 U	0.75 U	**1.5 J[b]**
Barium	µg/L	-	**2100[ab]**	**12000[ab]**	140	**2600[ab]**	**2700[ab]**	**450[b]**	120	130	83
Barium (dissolved)	µg/L	-	**1300[b]**	**8300[ab]**	100	73	84	130	82	83	86
Beryllium	µg/L	-	0.31 U	0.31 U	0.31 J	**6.1[ab]**	**7.2[ab]**	1.5	0.31 U	0.34 J	0.31 U
Beryllium (dissolved)	µg/L	-	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.39 J
Cadmium	µg/L	-	0.82 J	0.48 J	0.21 U	**3.3[b]**	**3.3[b]**	0.71 J	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	-	0.21 U	0.22 J	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.34 U
Calcium	µg/L	-	150000	130000	120000	1400000	110000	350000	140000	170000	110000
Calcium (dissolved)	µg/L	-	140000	92000	92000	99000	92000	110000	100000	110000	110000
Chromium	µg/L	-	5.1	7.7	6.7	**240[a]**	**240[a]**	59	8.8	9.7	0.98 U
Chromium (dissolved)	µg/L	-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	4.3 U	0.98 U	1.1 U	0.98 U
Cobalt	µg/L	-	**6.5[b]**	**6.1[b]**	**7.8[b]**	**130[b]**	**130[b]**	**26[b]**	**4.0[b]**	**3.9[b]**	0.56 J
Cobalt (dissolved)	µg/L	-	**3.9[b]**	**2.5[b]**	0.52 J	**1.9[b]**	0.36 J	**2.8[b]**	0.51 U	0.85 U	0.49 J
Copper	µg/L	-	17	13	13	**330[b]**	**320[b]**	73	12	12	9.4 U
Copper (dissolved)	µg/L	-	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	5.7	1.7 U	2.2	2.97 U
Iron	µg/L	-	**11000[b]**	**14000[b]**	**8400[b]**	**290000[b]**	**3800[b]**	**60000[b]**	**9200[b]**	**9700[b]**	**4200[b]**
Iron (dissolved)	µg/L	-	**6300[b]**	**3800[b]**	100	66 J	150	**4100[b]**	510 U	1400 U	1300
Lead	µg/L	**85.6[ab]**	**25[ab]**	**17[ab]**	8.5	**170[ab]**	**180[ab]**	**30[ab]**	5.3	7.4	0.45 U
Lead (dissolved)	µg/L	-	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	2.2	0.45 U	1.1	0.45 U
Magnesium	µg/L	-	53000	55000	37000	440000	440000	130000	51000	63000	37000
Magnesium (dissolved)	µg/L	-	47000	41000	27000	33000	29000	38000	34000	37000	37000
Manganese	µg/L	-	**2300[b]**	**1200[b]**	**410[b]**	**8200[b]**	**8800[b]**	**1600[b]**	**350[b]**	**530[b]**	**310[b]**
Manganese (dissolved)	µg/L	-	**1400[b]**	**890[b]**	42	**250[b]**	**61[b]**	**350[b]**	**180[b]**	**340[b]**	**310[b]**
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	0.13 U	0.13 U	0.13 U	**0.39[b]**	0.13 U	**0.14 J[b]**	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	-	13	9.1	9.8	**330[b]**	**330[b]**	**65[b]**	10	11	2.3
Nickel (dissolved)	µg/L	-	5.6	2.3	1.5 U	2.7	1.5 U	5.9	1.5 U	2.3	1.5 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-25**	**VAS-35**	**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-120708-KMV-063**	**GW-38443-121817-KVM-006**	**GW-38443-121817-KVM-007**	**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**	**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**
Sample Date:		**12/7/2008**	**12/18/2017**	**12/18/2017**	**10/4/2018**	**10/4/2018**	**10/4/2018**	**10/5/2018**	**10/5/2018**	**10/5/2018**	**10/5/2018**	**10/8/2018**
Sample Depth:		**50-55 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Metals (cont'd)												
Potassium	µg/L	-	10000	8500	7000	37000	38000	14000	6900	7300	7300	5300
Potassium (dissolved)	µg/L	-	9600	7600	5500	5900	4800	6200	5000	5100	5100	5300
Selenium	µg/L	-	0.89 U	0.89 U	3.8 J	**21[b]**	**24[b]**	5.4	4.3 J	2.7 J	2.7 J	1.2 J
Selenium (dissolved)	µg/L	-	0.89 U	0.89 U	3.8 J	3.9 J	3.5 J	4.2 J	3.6 J	1.7 J	1.7 J	1.5 J
Silver	µg/L	-	0.053 U	0.053 U	0.053 U	0.48 J	0.48 J	0.12 J	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	-	120000	73000	79000	61000	62000	60000	50000	51000	51000	48000
Sodium (dissolved)	µg/L	-	120000	74000	82000	70000	60000	63000	50000	50000	50000	48000
Thallium	µg/L	-	**0.47 J[b]**	0.20 U	**0.28 J[b]**	**4.9[ab]**	**5.2[ab]**	**0.98 J[b]**	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.25 J[b]**
Vanadium	µg/L	-	5.2	6.2	**12[b]**	**310[b]**	**300[b]**	**66[b]**	**11[b]**	**13[b]**	**13[b]**	0.82 U
Vanadium (dissolved)	µg/L	-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	5.4	0.82 U	1.5 J	1.5 J	0.82 U
Zinc	µg/L	-	**640[b]**	410	**1100[b]**	**2200[b]**	**2200[b]**	**900[b]**	470	**730[b]**	**730[b]**	**1800[b]**
Zinc (dissolved)	µg/L	-	510	240	**920[b]**	200	**1500[b]**	350	400	580	580	**1600[b]**
PCBs												
Aroclor-1016 (PCB-1016)	µg/L	-	0.054 U	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	0.098 U	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	0.076 U	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	0.065 U	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	0.054 U	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	0.033 U	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	0.043 U	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/L	-	0.017 U	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	0.012 U	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	0.016 U	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	0.012 U	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	0.017 U	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	0.028 U	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	0.015 U	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	0.014 U	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	0.014 U	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	0.017 U	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	0.015 U	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	0.014 U	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	0.013 U	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	0.19 U	-	-	-	-	-	-	-	-	-
Gases												
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-25**	**VAS-35**	**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-120708-KMV-063**	**GW-38443-121817-KVM-006**	**GW-38443-121817-KVM-007**	**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**	**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**
Sample Date:		**12/7/2008**	**12/18/2017**	**12/18/2017**	**10/4/2018**	**10/4/2018**	**10/4/2018**	**10/5/2018**	**10/5/2018**	**10/5/2018**	**10/8/2018**
Sample Depth:		**50-55 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	220000	150000	79000	82000	67000	71000	76000	70000	72000
Cyanide (total)	µg/L	-	2.6 U	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	14 U	14 U	**4400[b]**	**3400[b]**	**3900[b]**	**3800[b]**	2900	2000	120
Nitrite (as N)	µg/L	-	14 U	14 U	14 U	14 U	14 U	14 U	16 J	52 J	14 U
Sulfate	µg/L	-	16000	8800	32000	47000	42000	43000	47000	49000	56000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	BH1-13 DP&L	BH2-13 DP&L
Sample ID:		GW-38443-012219-JC-214	GW-38443-012319-JC-215	GW-38443-012319-JC-216	GW-38443-012319-JC-217	GW-38443-012319-JC-218	GW-38443-012919-JC-219	GW-38443-012919-JC-220	GW-38443-020419-JC-221	GW-38443-021213-JC-004	GW-38443-021113-JC-002
Sample Date:		1/22/2019	1/23/2019	1/23/2019	1/23/2019	1/23/2019	1/29/2019	1/29/2019	2/4/2019	2/12/2013	2/11/2013
Sample Depth:		5-10 ft BGS	10-15 ft BGS	15-20 ft BGS	20-25 ft BGS	25-30 ft BGS	30-40 ft BGS	30-40 ft BGS Duplicate	40-50 ft BGS	27-31 ft BGS	27.5-31.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.28 J	0.64 J	0.79 J	0.82 J	0.37 J	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.23 J	0.27 J	0.27 J	0.27 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 UJ	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 UJ	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	10 U	10 U
2-Hexanone	µg/L	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U	0.54 U	0.54 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 U	10 U	10 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	10 U	10 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.20 J	0.13 U	0.17 J	0.14 J	0.13 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	1.0 U	1.0 U
Bromoform	µg/L	0.76 UJ	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 UJ	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	1.0 UJ	1.0 UJ
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	1.0 U	1.0 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	**0.45 J[b]**	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	0.15 J	0.080 U	0.080 U	0.11 J	0.080 U	0.080 U	0.080 U	0.080 U	-	-
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 UJ	1.7 UJ	1.7 U	10 U	10 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	5.0 U	5.0 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	1.0 U	1.0 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	-	-
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 UJ	1.0 UJ
Tetrachloroethene	µg/L	0.15 UJ	0.36 J	0.79 J	0.59 J	0.15 U	0.15 U	0.15 U	0.15 U	1.0 U	1.0 U
Toluene	µg/L	0.22 J	0.27 J	0.30 J	0.47 J	0.32 J	0.26 J	0.29 J	0.28 J	1.0 U	0.14 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.21 J	**0.67 J[b]**	**1.8[b]**	**2.7[b]**	**2.8[b]**	**2.4[b]**	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	1.0 UJ	1.0 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	1.0 UJ	1.0 UJ
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U
Xylenes (total)	µg/L	0.15 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.0 U	2.0 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**BH1-13 DP&L**	**BH2-13 DP&L**
Sample ID:		**GW-38443-012219-JC-214**	**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**	**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-021213-JC-004**	**GW-38443-021113-JC-002**
Sample Date:		**1/22/2019**	**1/23/2019**	**1/23/2019**	**1/23/2019**	**1/23/2019**	**1/29/2019**	**1/29/2019**	**2/4/2019**	**2/12/2013**	**2/11/2013**
Sample Depth:		**5-10 ft BGS**	**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**40-50 ft BGS**	**27-31 ft BGS**	**27.5-31.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.53 U	-	-	-	0.53 U	-	-	-	0.95 U	0.95 U
2,4,5-Trichlorophenol	µg/L	1.9 U	-	-	-	1.9 U	-	-	-	4.8 U	4.8 U
2,4,6-Trichlorophenol	µg/L	1.7 U	-	-	-	1.7 U	-	-	-	4.8 U	4.8 U
2,4-Dichlorophenol	µg/L	0.25 U	-	-	-	0.25 U	-	-	-	1.9 U	1.9 U
2,4-Dimethylphenol	µg/L	0.50 U	-	-	-	0.50 U	-	-	-	1.9 U	1.9 U
2,4-Dinitrophenol	µg/L	6.0 U	-	-	-	6.0 U	-	-	-	4.8 U	4.8 U
2,4-Dinitrotoluene	µg/L	2.0 U	-	-	-	2.0 U	-	-	-	4.8 U	4.8 U
2,6-Dinitrotoluene	µg/L	2.0 U	-	-	-	2.1 U	-	-	-	4.8 U	4.8 U
2-Chloronaphthalene	µg/L	0.46 U	-	-	-	0.47 U	-	-	-	0.95 U	0.95 U
2-Chlorophenol	µg/L	0.26 U	-	-	-	0.27 U	-	-	-	0.95 U	0.95 U
2-Methylnaphthalene	µg/L	0.11 U	-	-	-	0.11 U	-	-	-	0.19 U	0.19 U
2-Methylphenol	µg/L	0.20 U	-	-	-	0.20 U	-	-	-	0.95 U	0.95 U
2-Nitroaniline	µg/L	0.49 U	-	-	-	0.50 U	-	-	-	1.9 U	1.9 U
2-Nitrophenol	µg/L	0.54 U	-	-	-	0.55 U	-	-	-	1.9 U	1.9 U
3&4-Methylphenol	µg/L	0.18 U	-	-	-	0.19 U	-	-	-	1.9 U	1.9 U
3,3'-Dichlorobenzidine	µg/L	1.1 U	-	-	-	1.1 U	-	-	-	4.8 U	4.8 U
3-Nitroaniline	µg/L	0.54 U	-	-	-	0.55 U	-	-	-	1.9 U	1.9 U
4,6-Dinitro-2-methylphenol	µg/L	2.7 U	-	-	-	2.7 U	-	-	-	4.8 U	4.8 U
4-Bromophenyl phenyl ether	µg/L	0.48 U	-	-	-	0.48 U	-	-	-	1.9 U	1.9 U
4-Chloro-3-methylphenol	µg/L	0.28 U	-	-	-	0.29 U	-	-	-	1.9 U	1.9 U
4-Chloroaniline	µg/L	0.30 U	-	-	-	0.31 U	-	-	-	1.9 U	1.9 U
4-Chlorophenyl phenyl ether	µg/L	0.53 U	-	-	-	0.53 U	-	-	-	1.9 U	1.9 U
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	0.88 U	-	-	-	0.89 U	-	-	-	1.9 U	1.9 U
4-Nitrophenol	µg/L	2.1 U	-	-	-	2.1 U	-	-	-	4.8 U	4.8 U
Acenaphthene	µg/L	0.17 U	-	-	-	0.17 U	-	-	-	0.19 U	0.19 U
Acenaphthylene	µg/L	0.12 U	-	-	-	0.12 U	-	-	-	0.19 U	0.19 U
Acetophenone	µg/L	0.35 U	-	-	-	0.36 U	-	-	-	0.95 U	0.95 U
Anthracene	µg/L	0.13 U	-	-	-	0.13 U	-	-	-	0.19 U	0.19 U
Atrazine	µg/L	0.92 U	-	-	-	0.92 U	-	-	-	0.95 U	0.95 U
Benzaldehyde	µg/L	0.73 U	-	-	-	0.74 U	-	-	-	0.95 U	0.95 U
Benzo(a)anthracene	µg/L	**0.24**[b]	-	-	-	0.17 U	-	-	-	0.19 U	0.19 U
Benzo(a)pyrene	µg/L	**0.36**[ab]	-	-	-	0.17 U	-	-	-	0.19 U	0.19 U
Benzo(b)fluoranthene	µg/L	**0.42**[b]	-	-	-	0.15 U	-	-	-	0.19 U	0.19 U
Benzo(g,h,i)perylene	µg/L	0.31	-	-	-	0.17 U	-	-	-	0.19 U	0.19 U
Benzo(k)fluoranthene	µg/L	0.16 J	-	-	-	0.14 U	-	-	-	0.19 U	0.19 U
Biphenyl (1,1-Biphenyl)	µg/L	0.47 U	-	-	-	0.48 U	-	-	-	0.95 U	0.95 U
bis(2-Chloroethoxy)methane	µg/L	0.44 U	-	-	-	0.44 U	-	-	-	0.95 U	0.95 U
bis(2-Chloroethyl)ether	µg/L	0.39 U	-	-	-	0.39 U	-	-	-	0.95 U	0.95 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.1 U	-	-	-	2.2 U	-	-	-	0.85 J	1.9 U
Butyl benzylphthalate (BBP)	µg/L	0.64 U	-	-	-	0.65 U	-	-	-	0.95 U	0.95 U
Caprolactam	µg/L	0.90 U	-	-	-	0.91 U	-	-	-	4.8 U	4.8 U
Carbazole	µg/L	0.47 U	-	-	-	0.48 U	-	-	-	0.95 U	0.95 U
Chrysene	µg/L	0.22	-	-	-	0.18 U	-	-	-	0.19 U	0.19 U
Dibenz(a,h)anthracene	µg/L	0.15 U	-	-	-	0.15 U	-	-	-	0.19 U	0.19 U
Dibenzofuran	µg/L	0.54 U	-	-	-	0.54 U	-	-	-	0.95 U	0.95 U
Diethyl phthalate	µg/L	3.7 U	-	-	-	3.7 U	-	-	-	0.95 U	0.95 U
Dimethyl phthalate	µg/L	0.50 U	-	-	-	0.50 U	-	-	-	0.95 U	0.95 U
Di-n-butylphthalate (DBP)	µg/L	1.7 U	-	-	-	1.8 U	-	-	-	0.95 U	0.95 U
Di-n-octyl phthalate (DnOP)	µg/L	0.79 U	-	-	-	0.80 U	-	-	-	0.95 U	0.95 U
Fluoranthene	µg/L	0.45	-	-	-	0.16 U	-	-	-	0.19 U	0.19 U
Fluorene	µg/L	0.16 U	-	-	-	0.16 U	-	-	-	0.19 U	0.19 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	BH2-13 DP&L
Sample ID:		GW-38443-012219-JC-214	GW-38443-012319-JC-215	GW-38443-012319-JC-216	GW-38443-012319-JC-217	GW-38443-012319-JC-218	GW-38443-012919-JC-219	GW-38443-012919-JC-220	GW-38443-020419-JC-221	GW-38443-021213-JC-004	GW-38443-021113-JC-002
Sample Date:		1/22/2019	1/23/2019	1/23/2019	1/23/2019	1/23/2019	1/29/2019	1/29/2019	2/4/2019	2/12/2013	2/11/2013
Sample Depth:		5-10 ft BGS	10-15 ft BGS	15-20 ft BGS	20-25 ft BGS	25-30 ft BGS	30-40 ft BGS	30-40 ft BGS Duplicate	40-50 ft BGS	27-31 ft BGS	27.5-31.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	0.15 U	-	-	-	0.16 U	-	-	-	0.19 U	0.19 U
Hexachlorobutadiene	µg/L	0.52 U	-	-	-	0.53 U	-	-	-	0.95 U	0.95 U
Hexachlorocyclopentadiene	µg/L	1.7 U	-	-	-	1.7 U	-	-	-	R	R
Hexachloroethane	µg/L	0.38 U	-	-	-	0.38 U	-	-	-	0.95 U	0.95 U
Indeno(1,2,3-cd)pyrene	µg/L	0.32[b]	-	-	-	0.13 U	-	-	-	0.19 U	0.19 U
Isophorone	µg/L	0.31 U	-	-	-	0.31 U	-	-	-	0.95 U	0.95 U
Naphthalene	µg/L	0.10 U	-	-	-	0.11 U	-	-	-	0.19 U	0.19 U
Nitrobenzene	µg/L	0.49 U	-	-	-	0.50 U	-	-	-	0.95 U	0.95 U
N-Nitrosodi-n-propylamine	µg/L	0.24 U	-	-	-	0.25 U	-	-	-	0.95 U	0.95 U
N-Nitrosodiphenylamine	µg/L	0.42 U	-	-	-	0.43 U	-	-	-	0.95 U	0.95 U
Pentachlorophenol	µg/L	3.0 U	-	-	-	3.0 U	-	-	-	4.8 U	4.8 U
Phenanthrene	µg/L	0.26	-	-	-	0.16 U	-	-	-	0.19 U	0.19 U
Phenol	µg/L	0.12 U	-	-	-	0.12 U	-	-	-	0.95 U	0.95 U
Pyrene	µg/L	0.37	-	-	-	0.17 U	-	-	-	0.19 U	0.19 U
Metals											
Aluminum	µg/L	6800[b]	340	410	160000[b]	810	170000[b]	170000[b]	3400[b]	1000	620
Aluminum (dissolved)	µg/L	1000	34 U	34 U	19000[b]	34 U	33000[b]	35000[b]	880	-	-
Antimony	µg/L	0.65 J	0.57 U	0.57 U	3.9[b]	0.57 U	5.5[b]	5.7[b]	0.57 U	10 U	10 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	1.1 J[b]	0.57 U	1.8 J[b]	1.8 J[b]	0.57 U	-	-
Arsenic	µg/L	41[ab]	17[ab]	2.1 J[b]	360[ab]	0.75 U	220[ab]	200[ab]	2.8 J[b]	650[ab]	860[ab]
Arsenic (dissolved)	µg/L	19[ab]	1.6 J[b]	0.75 U	43[ab]	0.75 U	33[ab]	33[ab]	0.90 J[b]	-	-
Barium	µg/L	240	140	130	1900[b]	110	2500[ab]	2300[ab]	160	590[b]	450[b]
Barium (dissolved)	µg/L	160	130	130	280	110	410[b]	440[b]	140	-	-
Beryllium	µg/L	0.35 J	0.31 U	0.31 U	8.5[ab]	0.31 U	12[ab]	12[ab]	0.31 U	5.0 U	5.0 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	1.2	0.31 U	3.0[b]	2.5	0.31 U	-	-
Cadmium	µg/L	0.84 J	0.21 U	0.21 U	3.6[b]	0.21 U	4.4[b]	4.0[b]	0.21 U	0.86 J	0.81 J
Cadmium (dissolved)	µg/L	0.46 J	0.37 J	0.21 U	0.49 J	0.21 U	0.78 J	0.66 J	0.21 U	-	-
Calcium	µg/L	120000	94000	83000	2300000	75000	3000000	2600000	120000	150000	90000
Calcium (dissolved)	µg/L	100000	90000	84000	280000	74000	400000	450000	100000	-	-
Chromium	µg/L	19	0.98 U	0.98 U	290[a]	1.6 J	510[a]	480[a]	11	200[a]	61
Chromium (dissolved)	µg/L	3.2	0.98 U	0.98 U	34	0.98 U	85	93	3.0	-	-
Cobalt	µg/L	6.0[b]	0.58 J	0.65 J[b]	120[b]	1.9[b]	190[b]	190[b]	2.4[b]	2.3 J[b]	7.0 U
Cobalt (dissolved)	µg/L	3.7[b]	0.41 J	0.42 J	15[b]	1.5[b]	32[b]	31[b]	1.2[b]	-	-
Copper	µg/L	50	2.9	2.1	420[b]	2.1	410[b]	390[b]	6.0	8.5 J	25 U
Copper (dissolved)	µg/L	10	1.7 U	1.7 U	53	1.7 U	65	66	2.4	-	-
Iron	µg/L	26000[b]	5000[b]	1200	500000[b]	970	450000[b]	410000[b]	7400[b]	13000[b]	3900[b]
Iron (dissolved)	µg/L	13000[b]	540	74 J	51000[b]	80 J	65000[b]	65000[b]	2600[b]	-	-
Lead	µg/L	54[ab]	4.1	1.7	290[ab]	1.0	330[ab]	320[ab]	5.4	14	3.0 U
Lead (dissolved)	µg/L	9.4	1.5	0.60 J	28[ab]	0.45 U	52[ab]	53[ab]	1.6	-	-
Magnesium	µg/L	26000	25000	24000	820000	23000	1100000	930000	34000	68000	56000
Magnesium (dissolved)	µg/L	19000	23000	24000	98000	22000	150000	160000	29000	-	-
Manganese	µg/L	1800[b]	670[b]	250[b]	7300[b]	130[b]	7400[b]	6700[b]	270[b]	1200[b]	740[b]
Manganese (dissolved)	µg/L	1600[b]	600[b]	240[b]	1000[b]	120[b]	1300[b]	1400[b]	200[b]	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.35[b]	0.13 U	0.35[b]	0.27[b]	0.13 U	0.20 U	0.20 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	-
Nickel	µg/L	14	2.2	1.6 J	370[b]	3.4	480[b]	460[b]	7.8	110[b]	37 J
Nickel (dissolved)	µg/L	5.4	1.5 J	1.5 U	39	2.3	77[b]	78[b]	4.4	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	BH1-13 DP&L	BH2-13 DP&L
Sample ID:		GW-38443-012219-JC-214	GW-38443-012319-JC-215	GW-38443-012319-JC-216	GW-38443-012319-JC-217	GW-38443-012319-JC-218	GW-38443-012919-JC-219	GW-38443-012919-JC-220	GW-38443-020419-JC-221	GW-38443-021213-JC-004	GW-38443-021113-JC-002
Sample Date:		1/22/2019	1/23/2019	1/23/2019	1/23/2019	1/23/2019	1/29/2019	1/29/2019	2/4/2019	2/12/2013	2/11/2013
Sample Depth:		5-10 ft BGS	10-15 ft BGS	15-20 ft BGS	20-25 ft BGS	25-30 ft BGS	30-40 ft BGS	30-40 ft BGS Duplicate	40-50 ft BGS	27-31 ft BGS	27.5-31.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	4500	4100	4300	46000	4500	52000	50000	5400	12000	19000
Potassium (dissolved)	µg/L	3200	3900	4200	11000	4200	15000	15000	4600	-	-
Selenium	µg/L	1.1 J	0.89 U	0.89 U	19[b]	0.89 U	17[b]	17[b]	0.89 U	5.0 U	5.0 U
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	2.5 J	0.89 U	3.3 J	3.2 J	0.89 U	-	-
Silver	µg/L	0.30 J	0.053 U	0.053 U	0.96 J	0.053 U	0.93 J	0.93 J	0.053 U	5.0 U	5.0 U
Silver (dissolved)	µg/L	0.059 J	0.053 U	0.053 U	0.11 J	0.053 U	0.18 J	0.15 J	0.053 U	-	-
Sodium	µg/L	15000	20000	20000	23000	20000	27000	26000	23000	18000	27000
Sodium (dissolved)	µg/L	15000	20000	21000	21000	20000	27000	27000	23000	-	-
Thallium	µg/L	0.20 U	0.20 U	0.20 U	4.5[ab]	0.23 J[b]	5.4[ab]	5.0[ab]	0.22 J[b]	10 U	10 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.64 J[b]	0.21 J[b]	1.5[b]	1.4[b]	0.20 U	-	-
Vanadium	µg/L	17[b]	0.91 J	0.91 J	370[b]	1.6 J	470[b]	450[b]	6.6	4.2 J	2.8 J
Vanadium (dissolved)	µg/L	2.6 J	0.82 U	0.82 U	44[b]	0.82 U	79[b]	84[b]	1.6 J	-	-
Zinc	µg/L	440	490	420	1600[b]	340	4100[b]	3900[b]	590	30 U	20 U
Zinc (dissolved)	µg/L	310	460	390	190	290	640[b]	690[b]	460	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	0.054 U	-	-	-	0.056 U	-	-	-	0.48 U	0.48 U
Aroclor-1221 (PCB-1221)	µg/L	0.055 U	-	-	-	0.057 U	-	-	-	0.48 U	0.48 U
Aroclor-1232 (PCB-1232)	µg/L	0.071 U	-	-	-	0.074 U	-	-	-	0.48 U	0.48 U
Aroclor-1242 (PCB-1242)	µg/L	0.073 U	-	-	-	0.076 U	-	-	-	0.48 U	0.48 U
Aroclor-1248 (PCB-1248)	µg/L	0.39[b]	-	-	-	0.050 U	-	-	-	0.48 U	0.48 U
Aroclor-1254 (PCB-1254)	µg/L	0.038 U	-	-	-	0.040 U	-	-	-	0.48 U	0.48 U
Aroclor-1260 (PCB-1260)	µg/L	0.082 J[b]	-	-	-	0.046 U	-	-	-	0.48 U	0.48 U
Pesticides											
4,4'-DDD	µg/L	0.0051 U	-	-	-	0.0053 U	-	-	-	-	-
4,4'-DDE	µg/L	0.0041 U	-	-	-	0.0043 U	-	-	-	-	-
4,4'-DDT	µg/L	0.0046 U	-	-	-	0.0048 U	-	-	-	-	-
Aldrin	µg/L	0.0023 U	-	-	-	0.0024 U	-	-	-	-	-
alpha-BHC	µg/L	0.0019 U	-	-	-	0.0020 U	-	-	-	-	-
alpha-Chlordane	µg/L	0.0031 U	-	-	-	0.0032 U	-	-	-	-	-
beta-BHC	µg/L	0.0044 U	-	-	-	0.0046 U	-	-	-	-	-
delta-BHC	µg/L	0.0041 U	-	-	-	0.0043 U	-	-	-	-	-
Dieldrin	µg/L	0.0022 U	-	-	-	0.0023 U	-	-	-	-	-
Endosulfan I	µg/L	0.0036 U	-	-	-	0.0037 U	-	-	-	-	-
Endosulfan II	µg/L	0.0022 U	-	-	-	0.0023 U	-	-	-	-	-
Endosulfan sulfate	µg/L	0.0036 U	-	-	-	0.0037 U	-	-	-	-	-
Endrin	µg/L	0.0024 U	-	-	-	0.0025 U	-	-	-	-	-
Endrin aldehyde	µg/L	0.0044 U	-	-	-	0.0046 U	-	-	-	-	-
Endrin ketone	µg/L	0.0038 U	-	-	-	0.0040 U	-	-	-	-	-
gamma-BHC (lindane)	µg/L	0.0024 U	-	-	-	0.0025 U	-	-	-	-	-
gamma-Chlordane	µg/L	0.0048 U	-	-	-	0.0050 U	-	-	-	-	-
Heptachlor	µg/L	0.0032 U	-	-	-	0.0033 U	-	-	-	-	-
Heptachlor epoxide	µg/L	0.0025 U	-	-	-	0.0026 U	-	-	-	-	-
Methoxychlor	µg/L	0.0045 U	-	-	-	0.0047 U	-	-	-	-	-
Toxaphene	µg/L	0.056 U	-	-	-	0.058 U	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**BH1-13 DP&L**	**BH2-13 DP&L**
Sample ID:		**GW-38443-012219-JC-214**	**GW-38443-012319-JC-215**	**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**	**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-021213-JC-004**	**GW-38443-021113-JC-002**
Sample Date:		**1/22/2019**	**1/23/2019**	**1/23/2019**	**1/23/2019**	**1/23/2019**	**1/29/2019**	**1/29/2019**	**2/4/2019**	**2/12/2013**	**2/11/2013**
Sample Depth:		**5-10 ft BGS**	**10-15 ft BGS**	**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**40-50 ft BGS**	**27-31 ft BGS**	**27.5-31.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	25000	27000	26000	29000	31000	47000	48000	38000	-	-
Cyanide (total)	µg/L	6 U	-	-	-	6 U	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	130	680	2300	1900	250	550	530	250	-	-
Nitrite (as N)	µg/L	14 U	14 U	41 J	37 J	25 J	61 U	57 U	14 U	-	-
Sulfate	µg/L	22000	25000	30000	31000	30000	35000	34000	50000	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH3-13 DP&L**	**BH4-13 DP&L**	**BH5-13 DP&L**	**BH6-13 DP&L**	**BH7-13 DP&L**	**BH8-13 DP&L**	**BH9-13 DP&L**	**BH10-13 DP&L**	**BH11-13 DP&L**	**BH12-13 DP&L**
Sample ID:		**GW-38443-021213-JC-006**	**GW-38443-021313-JC-008**	**GW-38443-021313-JC-010**	**GW-38443-021413-JC-012**	**GW-38443-021413-JC-014**	**GW-38443-021513-JC-018**	**GW-38443-021513-JC-016**	**GW-38443-021813-JC-020**	**GW-38443-021813-JC-022**	**GW-38443-021913-JC-024**
Sample Date:		**2/12/2013**	**2/13/2013**	**2/13/2013**	**2/14/2013**	**2/14/2013**	**2/15/2013**	**2/15/2013**	**2/18/2013**	**2/18/2013**	**2/19/2013**
Sample Depth:		**27-31 ft BGS**	**28-32 ft BGS**	**28-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**29-33 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.18 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	**1.6[b]**	**0.35 J[b]**	**0.81 J[b]**	1.0 U	1.0 U	0.21 J	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.70 J	0.82 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	0.27 J	0.17 J	1.0 U	1.0 U	**0.30 J[b]**	**0.51 J[b]**	**1.5[b]**	**1.5[b]**
Trichlorofluoromethane (CFC-11)	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH3-13 DP&L**	**BH4-13 DP&L**	**BH5-13 DP&L**	**BH6-13 DP&L**	**BH7-13 DP&L**	**BH8-13 DP&L**	**BH9-13 DP&L**	**BH10-13 DP&L**	**BH11-13 DP&L**	**BH12-13 DP&L**
Sample ID:		**GW-38443-021213-JC-006**	**GW-38443-021313-JC-008**	**GW-38443-021313-JC-010**	**GW-38443-021413-JC-012**	**GW-38443-021413-JC-014**	**GW-38443-021513-JC-018**	**GW-38443-021513-JC-016**	**GW-38443-021813-JC-020**	**GW-38443-021813-JC-022**	**GW-38443-021913-JC-024**
Sample Date:		**2/12/2013**	**2/13/2013**	**2/13/2013**	**2/14/2013**	**2/14/2013**	**2/15/2013**	**2/15/2013**	**2/18/2013**	**2/18/2013**	**2/19/2013**
Sample Depth:		**27-31 ft BGS**	**28-32 ft BGS**	**28-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**29-33 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
2,4,5-Trichlorophenol	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
2,4,6-Trichlorophenol	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
2,4-Dichlorophenol	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dimethylphenol	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 UJ
2,4-Dinitrotoluene	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
2,6-Dinitrotoluene	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
2-Chloronaphthalene	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
2-Chlorophenol	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
2-Methylnaphthalene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
2-Methylphenol	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
2-Nitroaniline	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
2-Nitrophenol	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
3&4-Methylphenol	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
3,3'-Dichlorobenzidine	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
3-Nitroaniline	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4,6-Dinitro-2-methylphenol	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 UJ
4-Bromophenyl phenyl ether	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Chloro-3-methylphenol	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Chloroaniline	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Chlorophenyl phenyl ether	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	1.9 U	1.9 U	1.9 U	1.9 U	19 U	1.9 U	1.9 U	1.9 U	1.9 U	1.9 U
4-Nitrophenol	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Acenaphthene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acenaphthylene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Acetophenone	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Anthracene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.1 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Atrazine	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Benzaldehyde	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Benzo(a)anthracene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Benzo(a)pyrene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Benzo(b)fluoranthene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Benzo(g,h,i)perylene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Benzo(k)fluoranthene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Biphenyl (1,1-Biphenyl)	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
bis(2-Chloroethoxy)methane	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
bis(2-Chloroethyl)ether	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.9 U	1.9 U	2.0 U	1.9 U	19 U	1.9 U	1.2 J	1.9 U	1.9 U	1.9 U
Butyl benzylphthalate (BBP)	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Caprolactam	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Carbazole	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Chrysene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Dibenz(a,h)anthracene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Dibenzofuran	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Diethyl phthalate	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Dimethyl phthalate	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Di-n-butylphthalate (DBP)	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Di-n-octyl phthalate (DnOP)	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Fluoranthene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Fluorene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH3-13 DP&L**	**BH4-13 DP&L**	**BH5-13 DP&L**	**BH6-13 DP&L**	**BH7-13 DP&L**	**BH8-13 DP&L**	**BH9-13 DP&L**	**BH10-13 DP&L**	**BH11-13 DP&L**	**BH12-13 DP&L**
Sample ID:		**GW-38443-021213-JC-006**	**GW-38443-021313-JC-008**	**GW-38443-021313-JC-010**	**GW-38443-021413-JC-012**	**GW-38443-021413-JC-014**	**GW-38443-021513-JC-018**	**GW-38443-021513-JC-016**	**GW-38443-021813-JC-020**	**GW-38443-021813-JC-022**	**GW-38443-021913-JC-024**
Sample Date:		**2/12/2013**	**2/13/2013**	**2/13/2013**	**2/14/2013**	**2/14/2013**	**2/15/2013**	**2/15/2013**	**2/18/2013**	**2/18/2013**	**2/19/2013**
Sample Depth:		**27-31 ft BGS**	**28-32 ft BGS**	**28-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**29-33 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Hexachlorobutadiene	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Hexachlorocyclopentadiene	µg/L	R	9.5 U	9.5 U	9.5 U	95 U	9.5 U	9.5 U	9.5 U	9.5 U	9.5 U
Hexachloroethane	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Indeno(1,2,3-cd)pyrene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Isophorone	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Naphthalene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Nitrobenzene	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
N-Nitrosodi-n-propylamine	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
N-Nitrosodiphenylamine	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Pentachlorophenol	µg/L	4.8 U	4.8 U	4.8 U	4.8 U	48 U	4.8 U	4.8 U	4.8 U	4.8 U	4.8 U
Phenanthrene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Phenol	µg/L	0.95 U	0.95 U	0.95 U	0.95 U	9.5 U	0.95 U	0.95 U	0.95 U	0.95 U	0.95 U
Pyrene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	1.9 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Metals											
Aluminum	µg/L	310	700	260	200 U	100 J	200 U	180 J	200 U	200 U	200 U
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	**2.8 J[b]**	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**7.8 J[b]**	10 U	10 U	10 U	**5.8 J[b]**	10 U	10 U	10 U	10 U	10 U
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	140 J	90 J	140 J	160 J	210	130 J	130 J	150 J	140 J	130 J
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	170000	110000	110000	110000	110000	120000	110000	130000	140000	120000
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	**170[a]**	57	2.5 J	22	12	5.0 U	5.0 U	6.8	5.0 U	4.6 J
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	**8.8[b]**	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	**1800[b]**	**1500[b]**	630	760	**1500[b]**	260	370	310	1100	730
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	30000	36000	35000	39000	34000	38000	35000	41000	45000	41000
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	**700[b]**	**54[b]**	37	**45[b]**	**190[b]**	**49[b]**	**52[b]**	**84[b]**	**75[b]**	**170[b]**
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	**120[b]**	37 J	3.4 J	15 J	6.6 J	4.9 J	3.4 J	8.2 J	7.2 J	8.9 J
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH3-13 DP&L**	**BH4-13 DP&L**	**BH5-13 DP&L**	**BH6-13 DP&L**	**BH7-13 DP&L**	**BH8-13 DP&L**	**BH9-13 DP&L**	**BH10-13 DP&L**	**BH11-13 DP&L**	**BH12-13 DP&L**
Sample ID:		**GW-38443-021213-JC-006**	**GW-38443-021313-JC-008**	**GW-38443-021313-JC-010**	**GW-38443-021413-JC-012**	**GW-38443-021413-JC-014**	**GW-38443-021513-JC-018**	**GW-38443-021513-JC-016**	**GW-38443-021813-JC-020**	**GW-38443-021813-JC-022**	**GW-38443-021913-JC-024**
Sample Date:		**2/12/2013**	**2/13/2013**	**2/13/2013**	**2/14/2013**	**2/14/2013**	**2/15/2013**	**2/15/2013**	**2/18/2013**	**2/18/2013**	**2/19/2013**
Sample Depth:		**27-31 ft BGS**	**28-32 ft BGS**	**28-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**29-33 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	7300	11000	9500	9300	8900	11000	11000	9300	8200	7600
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	17[b]	16[b]	14[b]	11[b]	5.0 U	9.5	11[b]	11[b]	18[b]	20[b]
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	11000	68000	79000	87000	73000	82000	81000	110000	120000	67000
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	10[b]	7.0 U	7.0 U	7.0 U	7.0 U	7.0 U	1.3 J	7.0 U	7.0 U	7.0 U
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1221 (PCB-1221)	µg/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1232 (PCB-1232)	µg/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1242 (PCB-1242)	µg/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1248 (PCB-1248)	µg/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1254 (PCB-1254)	µg/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Aroclor-1260 (PCB-1260)	µg/L	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U	0.48 U
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH3-13 DP&L**	**BH4-13 DP&L**	**BH5-13 DP&L**	**BH6-13 DP&L**	**BH7-13 DP&L**	**BH8-13 DP&L**	**BH9-13 DP&L**	**BH10-13 DP&L**	**BH11-13 DP&L**	**BH12-13 DP&L**
Sample ID:		**GW-38443-021213-JC-006**	**GW-38443-021313-JC-008**	**GW-38443-021313-JC-010**	**GW-38443-021413-JC-012**	**GW-38443-021413-JC-014**	**GW-38443-021513-JC-018**	**GW-38443-021513-JC-016**	**GW-38443-021813-JC-020**	**GW-38443-021813-JC-022**	**GW-38443-021913-JC-024**
Sample Date:		**2/12/2013**	**2/13/2013**	**2/13/2013**	**2/14/2013**	**2/14/2013**	**2/15/2013**	**2/15/2013**	**2/18/2013**	**2/18/2013**	**2/19/2013**
Sample Depth:		**27-31 ft BGS**	**28-32 ft BGS**	**28-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**29-33 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH13-13 DP&L**	**BH14-13 DP&L**	**BH15-13 DP&L**	**BH15-18**	**BH15-18**	**BH16-13 DP&L**	**BH16-18**	**BH17-13 DP&L**	**BH18-13 DP&L**	**BH19-13 DP&L**
Sample ID:		**GW-38443-022013-JC-026**	**GW-38443-022113-JC-028**	**GW-38443-022113-JC-030**	**GW-38443-090518-JC-152**	**GW-38443-090518-JC-153**	**GW-38443-022213-JC-034**	**GW-38443-090418-JC-151**	**GW-38443-022113-JC-032**	**GW-38443-022513-JC-036**	**GW-38443-022513-JC-038**
Sample Date:		**2/20/2013**	**2/21/2013**	**2/21/2013**	**9/5/2018**	**9/5/2018**	**2/22/2013**	**9/4/2018**	**2/21/2013**	**2/25/2013**	**2/25/2013**
Sample Depth:		**30-34 ft BGS**	**28-32 ft BGS**	**27-31 ft BGS**	**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**27-31 ft BGS**	**25-30 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26-30 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.24 UJ	0.24 UJ	0.23 J	0.24 U	0.45 J	2.0 U	3.3 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.13 UJ	0.13 UJ	1.0 U	0.13 U	1.0 U	2.0 U	3.3 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.090 UJ	0.090 UJ	1.0 U	0.090 U	1.0 U	2.0 U	3.3 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.17 UJ	0.17 UJ	1.0 U	0.17 U	1.0 U	2.0 U	3.3 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.19 UJ	0.19 UJ	1.0 U	0.19 U	1.0 U	2.0 U	3.3 U
1,2,4-Trichlorobenzene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	0.26 UJ	0.26 UJ	1.0 U	0.34 J	1.0 UJ	2.0 U	3.3 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	0.0086 U	0.0086 U	2.0 U	0.0086 U	2.0 U	4.0 U	6.7 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	0.0087 U	0.0087 U	1.0 U	0.0087 U	1.0 U	2.0 U	3.3 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	0.15 UJ	0.15 UJ	1.0 U	0.15 U	1.0 U	2.0 U	3.3 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.21 UJ	0.21 UJ	1.0 U	0.21 U	1.0 U	2.0 U	3.3 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	0.15 UJ	0.15 UJ	1.0 U	0.15 U	1.0 U	2.0 U	3.3 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	0.15 UJ	0.15 UJ	1.0 U	0.15 U	1.0 U	2.0 U	3.3 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	0.16 UJ	0.16 UJ	1.0 U	0.16 U	1.0 U	2.0 U	3.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	1.2 UJ	1.2 UJ	10 U	1.2 J	10 U	20 U	33 U
2-Hexanone	µg/L	10 U	10 U	10 U	0.54 UJ	0.54 UJ	10 U	0.85 J	10 U	20 U	33 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	0.42 UJ	0.42 UJ	10 U	0.76 J	10 U	20 U	33 U
Acetone	µg/L	10 U	10 U	10 U	5.4 UJ	5.4 UJ	10 U	5.4 U	10 U	20 U	33 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	0.16 J	0.21 J	1.0 U	0.13 U	1.0 U	2.0 U	**14[ab]**
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	0.17 UJ	0.17 UJ	1.0 U	0.17 U	1.0 U	2.0 U	3.3 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	0.76 UJ	0.76 UJ	1.0 U	0.76 U	1.0 U	2.0 UJ	3.3 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 UJ	1.0 UJ	0.42 UJ	0.42 UJ	1.0 U	0.42 U	1.0 UJ	2.0 U	3.3 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	0.28 UJ	0.28 UJ	1.0 U	0.28 U	1.0 U	2.0 U	3.3 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	0.26 UJ	0.26 UJ	1.0 U	0.26 U	1.0 U	2.0 U	3.3 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	0.14 UJ	0.14 UJ	1.0 U	0.14 U	1.0 U	2.0 U	3.3 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.83 UJ	0.83 UJ	1.0 U	0.83 U	1.0 U	2.0 U	3.3 U
Chloroform (Trichloromethane)	µg/L	0.18 J	**0.28 J[b]**	**0.39 J[b]**	0.13 UJ	0.13 UJ	**0.55 J[b]**	0.13 U	**0.80 J[b]**	2.0 U	3.3 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	0.20 UJ	0.20 UJ	1.0 U	0.20 U	1.0 U	2.0 U	3.3 U
cis-1,2-Dichloroethene	µg/L	1.3	0.92 J	**4.6[b]**	0.16 UJ	0.16 UJ	1.0 U	0.20 J	1.0 U	2.0 U	3.3 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	0.61 UJ	0.61 UJ	1.0 U	0.61 U	1.0 U	2.0 UJ	3.3 UJ
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	0.24 UJ	0.24 UJ	1.0 U	0.24 U	1.0 U	20	110
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	0.39 UJ	0.39 UJ	1.0 U	0.39 U	1.0 U	2.0 U	3.3 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	0.35 UJ	0.35 UJ	1.0 UJ	0.35 U	1.0 U	2.0 UJ	3.3 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	0.18 J	0.20 J	1.0 U	0.11 J	1.0 U	2.0 U	0.61 J
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	0.090 UJ	0.090 UJ	1.0 U	0.090 U	1.0 U	20	26
m&p-Xylenes	µg/L	-	-	-	0.23 J	0.24 J	-	0.080 U	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	1.7 UJ	1.7 UJ	10 U	1.7 U	10 U	20 U	33 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	0.33 UJ	0.33 UJ	1.0 U	0.33 U	1.0 U	14	41
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	0.070 UJ	0.070 UJ	5.0 U	0.070 U	5.0 U	10 U	17 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	2.6 UJ	2.6 UJ	1.0 U	2.6 U	1.0 U	2.0 U	3.3 U
o-Xylene	µg/L	-	-	-	0.13 J	0.14 J	-	0.090 U	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	0.10 UJ	0.10 UJ	1.0 U	0.10 U	1.0 U	2.0 U	3.3 U
Tetrachloroethene	µg/L	0.30 J	1.0 U	0.35 J	0.17 J	0.15 J	0.60 J	0.15 U	0.72 J	2.0 U	3.3 U
Toluene	µg/L	1.0 U	1.0 U	0.15 J	3.7 J	4.6 J	1.0 U	0.29 J	0.13 J	2.0 U	1.2 J
trans-1,2-Dichloroethene	µg/L	0.31 J	1.0 U	0.39 J	0.19 UJ	0.19 UJ	1.0 U	0.19 U	1.0 U	2.0 U	3.3 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	0.67 UJ	0.67 UJ	1.0 U	0.67 U	1.0 U	2.0 UJ	3.3 UJ
Trichloroethene	µg/L	**0.63 J[b]**	0.28 J	**0.33 J[b]**	**1.8 J[b]**	**1.5 J[b]**	0.18 J	**1.4[b]**	0.22 J	2.0 U	3.3 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	0.45 UJ	0.45 UJ	1.0 U	0.45 U	1.0 U	2.0 U	3.3 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	0.41 UJ	0.41 UJ	1.0 U	0.41 U	1.0 U	2.0 U	3.3 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	0.20 UJ	0.20 UJ	1.0 U	0.20 U	1.0 U	2.0 U	3.3 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	0.36 J	0.38 J	2.0 U	0.15 U	2.0 U	4.0 U	8.4

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH13-13 DP&L	BH14-13 DP&L	BH15-13 DP&L	BH15-18	BH15-18	BH16-13 DP&L	BH16-18	BH17-13 DP&L	BH18-13 DP&L	BH19-13 DP&L
Sample ID:		GW-38443-022013-JC-026	GW-38443-022113-JC-028	GW-38443-022113-JC-030	GW-38443-090518-JC-152	GW-38443-090518-JC-153	GW-38443-022213-JC-034	GW-38443-090418-JC-151	GW-38443-022113-JC-032	GW-38443-022513-JC-036	GW-38443-022513-JC-038
Sample Date:		2/20/2013	2/21/2013	2/21/2013	9/5/2018	9/5/2018	2/22/2013	9/4/2018	2/21/2013	2/25/2013	2/25/2013
Sample Depth:		30-34 ft BGS	28-32 ft BGS	27-31 ft BGS	25-30 ft BGS	25-30 ft BGS Duplicate	27-31 ft BGS	25-30 ft BGS	27-31 ft BGS	27-31 ft BGS	26-30 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
2,4,5-Trichlorophenol	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
2,4,6-Trichlorophenol	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
2,4-Dichlorophenol	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
2,4-Dimethylphenol	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
2,4-Dinitrophenol	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
2,4-Dinitrotoluene	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
2,6-Dinitrotoluene	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
2-Chloronaphthalene	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
2-Chlorophenol	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
2-Methylnaphthalene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	75[b]	2.2
2-Methylphenol	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
2-Nitroaniline	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
2-Nitrophenol	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
3&4-Methylphenol	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
3,3'-Dichlorobenzidine	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
3-Nitroaniline	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
4,6-Dinitro-2-methylphenol	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
4-Bromophenyl phenyl ether	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
4-Chloro-3-methylphenol	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
4-Chloroaniline	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
4-Chlorophenyl phenyl ether	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
4-Nitrophenol	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
Acenaphthene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	3.0	0.74
Acenaphthylene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.70	0.15 J
Acetophenone	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Anthracene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.25	0.19 U
Atrazine	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Benzaldehyde	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Benzo(a)anthracene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Benzo(a)pyrene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Benzo(b)fluoranthene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Benzo(g,h,i)perylene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Benzo(k)fluoranthene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Biphenyl (1,1-Biphenyl)	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
bis(2-Chloroethoxy)methane	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
bis(2-Chloroethyl)ether	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.9 U	1.9 U	1.9 U	-	-	1.9 U	-	1.9 U	1.9 U	1.9 U
Butyl benzylphthalate (BBP)	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Caprolactam	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
Carbazole	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.27 J	0.95 U
Chrysene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Dibenz(a,h)anthracene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Dibenzofuran	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	2.9[b]	0.95 U
Diethyl phthalate	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Dimethyl phthalate	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Di-n-butylphthalate (DBP)	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Di-n-octyl phthalate (DnOP)	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Fluoranthene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Fluorene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	5.4	0.14 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH13-13 DP&L	BH14-13 DP&L	BH15-13 DP&L	BH15-18	BH15-18	BH16-13 DP&L	BH16-18	BH17-13 DP&L	BH18-13 DP&L	BH19-13 DP&L
Sample ID:		GW-38443-022013-JC-026	GW-38443-022113-JC-028	GW-38443-022113-JC-030	GW-38443-090518-JC-152	GW-38443-090518-JC-153	GW-38443-022213-JC-034	GW-38443-090418-JC-151	GW-38443-022113-JC-032	GW-38443-022513-JC-036	GW-38443-022513-JC-038
Sample Date:		2/20/2013	2/21/2013	2/21/2013	9/5/2018	9/5/2018	2/22/2013	9/4/2018	2/21/2013	2/25/2013	2/25/2013
Sample Depth:		30-34 ft BGS	28-32 ft BGS	27-31 ft BGS	25-30 ft BGS	25-30 ft BGS Duplicate	27-31 ft BGS	25-30 ft BGS	27-31 ft BGS	27-31 ft BGS	26-30 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Hexachlorobutadiene	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Hexachlorocyclopentadiene	µg/L	9.5 U	9.5 U	9.5 U	-	-	9.5 U	-	9.5 U	9.5 U	9.5 U
Hexachloroethane	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Indeno(1,2,3-cd)pyrene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Isophorone	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Naphthalene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	21[b]	0.50[b]
Nitrobenzene	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
N-Nitrosodi-n-propylamine	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
N-Nitrosodiphenylamine	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Pentachlorophenol	µg/L	4.8 U	4.8 U	4.8 U	-	-	4.8 U	-	4.8 U	4.8 U	4.8 U
Phenanthrene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	4.0	0.19 U
Phenol	µg/L	0.95 U	0.95 U	0.95 U	-	-	0.95 U	-	0.95 U	0.95 U	0.95 U
Pyrene	µg/L	0.19 U	0.19 U	0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U
Metals											
Aluminum	µg/L	200 U	220	200 U	28000[b]	25000[b]	200 U	2200[b]	760	200 U	200 U
Aluminum (dissolved)	µg/L	-	-	-	190 J	34 UJ	-	61	-	-	-
Antimony	µg/L	10 U	10 U	10 U	2.7[b]	2.7[b]	10 U	0.57 U	10 U	10 U	10 U
Antimony (dissolved)	µg/L	-	-	-	0.57 U	0.57 U	-	0.57 U	-	-	-
Arsenic	µg/L	10 U	10 U	10 U	95[ab]	86[ab]	10 U	4.0 J[b]	10 U	120[ab]	190[ab]
Arsenic (dissolved)	µg/L	-	-	-	0.78 J[b]	0.75 U	-	0.75 U	-	-	-
Barium	µg/L	140 J	150 J	150 J	850[b]	760[b]	150 J	150	170 J	440[b]	8100[ab]
Barium (dissolved)	µg/L	-	-	-	120	100	-	91	-	-	-
Beryllium	µg/L	5.0 U	5.0 U	5.0 U	2.0	1.8	5.0 U	0.31 U	5.0 U	5.0 U	5.0 U
Beryllium (dissolved)	µg/L	-	-	-	0.31 U	0.31 U	-	0.31 U	-	-	-
Cadmium	µg/L	2.0 U	2.0 U	2.0 U	1.1[b]	0.89 J	2.0 U	0.21 U	2.0 U	2.0 U	2.0 U
Cadmium (dissolved)	µg/L	-	-	-	0.21 U	0.21 U	-	0.21 U	-	-	-
Calcium	µg/L	120000	120000	110000	700000	660000	110000	170000	100000	140000	130000
Calcium (dissolved)	µg/L	-	-	-	140000	120000	-	120000	-	-	-
Chromium	µg/L	2.8 J	5.0 U	5.0 U	65	57	5.6 U	4.9	5.0 U	54	5.0 U
Chromium (dissolved)	µg/L	-	-	-	0.98 U	0.98 U	-	0.98 U	-	-	-
Cobalt	µg/L	7.0 U	7.0 U	7.0 U	41[b]	37[b]	7.0 U	2.9[b]	7.0 U	7.0 U	7.0 U
Cobalt (dissolved)	µg/L	-	-	-	3.8[b]	3.3[b]	-	0.37 J	-	-	-
Copper	µg/L	25 U	25 U	25 U	280[b]	240[b]	25 U	17	25 U	25 U	25 U
Copper (dissolved)	µg/L	-	-	-	4.3 J	1.7 UJ	-	1.7 U	-	-	-
Iron	µg/L	180	970	160 U	86000[b]	77000[b]	400 U	5000[b]	830	4200[b]	7400[b]
Iron (dissolved)	µg/L	-	-	-	430 U	47 U	-	140 U	-	-	-
Lead	µg/L	3.0 U	3.0 U	3.0 U	97[ab]	86[ab]	3.0 U	7.0	3.0 U	3.0 U	3.0 U
Lead (dissolved)	µg/L	-	-	-	0.57 J	0.45 U	-	0.45 U	-	-	-
Magnesium	µg/L	41000	45000	44000	290000	270000	45000	65000	39000	46000	48000
Magnesium (dissolved)	µg/L	-	-	-	51000	45000	-	43000	-	-	-
Manganese	µg/L	46[b]	97[b]	46[b]	3500[b]	3100[b]	70[b]	390[b]	44[b]	370[b]	540[b]
Manganese (dissolved)	µg/L	-	-	-	550[b]	490[b]	-	63[b]	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.14 J[b]	0.20 U	0.20 U	0.38[b]	0.33[b]	0.52 U	0.13 U	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	µg/L	-	-	-	0.13 U	0.13 U	-	0.13 U	-	-	-
Nickel	µg/L	5.0 J	5.2 J	40 U	110[b]	95[b]	7.6 J	13	3.9 J	30 J	40 U
Nickel (dissolved)	µg/L	-	-	-	10	9.1	-	2.8	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH13-13 DP&L	BH14-13 DP&L	BH15-13 DP&L	BH15-18	BH15-18	BH16-13 DP&L	BH16-18	BH17-13 DP&L	BH18-13 DP&L	BH19-13 DP&L
Sample ID:		GW-38443-022013-JC-026	GW-38443-022113-JC-028	GW-38443-022113-JC-030	GW-38443-090518-JC-152	GW-38443-090518-JC-153	GW-38443-022213-JC-034	GW-38443-090418-JC-151	GW-38443-022113-JC-032	GW-38443-022513-JC-036	GW-38443-022513-JC-038
Sample Date:		2/20/2013	2/21/2013	2/21/2013	9/5/2018	9/5/2018	2/22/2013	9/4/2018	2/21/2013	2/25/2013	2/25/2013
Sample Depth:		30-34 ft BGS	28-32 ft BGS	27-31 ft BGS	25-30 ft BGS	25-30 ft BGS Duplicate	27-31 ft BGS	25-30 ft BGS	27-31 ft BGS	27-31 ft BGS	26-30 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	8200	8500	7900	17000	16000	8000	10000	10000	8300	10000
Potassium (dissolved)	µg/L	-	-	-	9000	8400	-	9300	-	-	-
Selenium	µg/L	18[b]	11[b]	8.7	22[b]	22[b]	13[b]	13[b]	9.5	5.0 U	5.0 U
Selenium (dissolved)	µg/L	-	-	-	22[b]	22[b]	-	13[b]	-	-	-
Silver	µg/L	5.0 U	5.0 U	5.0 U	0.13 J	0.11 J	5.0 U	0.058 J	5.0 U	5.0 U	5.0 U
Silver (dissolved)	µg/L	-	-	-	0.053 U	0.053 U	-	0.053 U	-	-	-
Sodium	µg/L	88000	95000	100000	58000	58000	110000	47000	120000	51000	50000
Sodium (dissolved)	µg/L	-	-	-	58000	53000	-	46000	-	-	-
Thallium	µg/L	10 U	10 U	10 U	1.4[b]	1.2[b]	10 U	0.30 J[b]	10 U	10 U	10 U
Thallium (dissolved)	µg/L	-	-	-	0.20 U	0.20 U	-	0.20 U	-	-	-
Vanadium	µg/L	7.0 U	7.0 U	7.0 U	76[b]	68[b]	7.0 U	5.5	7.0 U	7.0 U	7.0 U
Vanadium (dissolved)	µg/L	-	-	-	0.82 U	0.82 U	-	0.82 U	-	-	-
Zinc	µg/L	20 U	20 U	20 U	1900[b]	1700[b]	20 U	720[b]	25 U	20 U	20 U
Zinc (dissolved)	µg/L	-	-	-	950[b]	810[b]	-	510	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	0.48 U	0.48 U	0.48 U	-	-	4.8 U	-	0.48 U	0.48 U	0.48 UJ
Aroclor-1221 (PCB-1221)	µg/L	0.48 U	0.48 U	0.48 U	-	-	4.8 U	-	0.48 U	0.48 U	0.48 UJ
Aroclor-1232 (PCB-1232)	µg/L	0.48 U	0.48 U	0.48 U	-	-	4.8 U	-	0.48 U	0.48 U	0.48 UJ
Aroclor-1242 (PCB-1242)	µg/L	0.48 U	0.48 U	0.48 U	-	-	4.8 U	-	0.48 U	0.48 U	0.48 UJ
Aroclor-1248 (PCB-1248)	µg/L	0.48 U	0.48 U	0.48 U	-	-	4.8 U	-	0.48 U	0.48 U	0.48 UJ
Aroclor-1254 (PCB-1254)	µg/L	0.48 U	0.48 U	0.48 U	-	-	4.8 U	-	0.48 U	0.48 U	0.48 UJ
Aroclor-1260 (PCB-1260)	µg/L	0.48 U	0.48 U	0.48 U	-	-	4.8 U	-	0.48 U	0.48 U	0.48 UJ
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH13-13 DP&L	BH14-13 DP&L	BH15-13 DP&L	BH15-18	BH15-18	BH16-13 DP&L	BH16-18	BH17-13 DP&L	BH18-13 DP&L	BH19-13 DP&L
Sample ID:		GW-38443-022013-JC-026	GW-38443-022113-JC-028	GW-38443-022113-JC-030	GW-38443-090518-JC-152	GW-38443-090518-JC-153	GW-38443-022213-JC-034	GW-38443-090418-JC-151	GW-38443-022113-JC-032	GW-38443-022513-JC-036	GW-38443-022513-JC-038
Sample Date:		2/20/2013	2/21/2013	2/21/2013	9/5/2018	9/5/2018	2/22/2013	9/4/2018	2/21/2013	2/25/2013	2/25/2013
Sample Depth:		30-34 ft BGS	28-32 ft BGS	27-31 ft BGS	25-30 ft BGS	25-30 ft BGS Duplicate	27-31 ft BGS	25-30 ft BGS	27-31 ft BGS	27-31 ft BGS	26-30 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	87000	87000	-	85000	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	2300	2300	-	2700	-	-	-
Nitrite (as N)	µg/L	-	-	-	20 J	21 J	-	14 J	-	-	-
Sulfate	µg/L	-	-	-	76000	76000	-	60000	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH20-13 DP&L	BH20-13 DP&L	GW-2	GW-3	GW-5	GW-5	GW-5	GW-6	GW-7	GW-8
Sample ID:		GW-38443-022613-JC-040	GW-38443-022613-JC-041	GW-38443-010710-NZ-015	GW-38443-010710-JC-018	GW-38443-011110-NZ-024	GW-38443-062415-JC-029	GW-38443-062415-JC-030	GW-38443-011110-JC-025	GW-38443-012510-NZ-032	GW-38443-012510-NZ-031
Sample Date:		2/26/2013	2/26/2013	1/7/2010	1/7/2010	1/11/2010	6/24/2015	6/24/2015	1/11/2010	1/25/2010	1/25/2010
Sample Depth:		27-31 ft BGS	27-31 ft BGS Duplicate	20.4-30.4 ft BGS	22-32 ft BGS	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS Duplicate	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	4.3	4.4	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 UJ	1.0 U	1.3 U	71 UJ	1.0 UJ	2.0 UJ
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,1-Dichloroethane	µg/L	0.27 J	0.28 J	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	0.50 J	0.70 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 UJ	1.0 U	1.3 U	71 UJ	1.0 UJ	2.0 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	6.7 U	2.0 U	150 U	2.0 U	2.5 U	140 U	2.0 UJ	4.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U
2-Hexanone	µg/L	10 U	10 U	33 U	10 U	770 U	10 U	13 U	710 U	10 UJ	20 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U
Acetone	µg/L	10 U	10 U	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U
Benzene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	**2600[ab]**	**35[ab]**	**35[ab]**	**120[ab]**	1.0 U	2.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Bromoform	µg/L	1.0 UJ	1.0 UJ	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 UJ	1.3 UJ	71 U	1.0 UJ	2.0 UJ
Carbon disulfide	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 UJ	2.0 UJ
Carbon tetrachloride	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Chloroethane	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
cis-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	77	1.0 U	420	14	11	280	1.0 U	50
Dibromochloromethane	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	3.3 U	1.0 UJ	77 UJ	1.0 U	1.3 U	71 UJ	1.0 UJ	2.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	1.4 J	1.0 U	**160[b]**	1.0 U	1.3 U	**1600[ab]**	1.0 U	**3.5[b]**
Isopropyl benzene	µg/L	0.68 J	0.72 J	15	1.0 U	**58 J[b]**	0.75 J	0.68 J	**71[b]**	1.0 U	10
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	21	1.0 U	110	4.6	3.5	86	1.0 U	6.0
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	17 U	5.0 U	380 U	1.0 U	1.3 U	360 U	5.0 U	10 U
Methylene chloride	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Toluene	µg/L	0.16 J	0.16 J	3.3 U	1.0 U	26 J	0.25 J	1.3 U	71 U	1.0 U	2.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
trans-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Trichloroethene	µg/L	**0.41 J[b]**	**0.43 J[b]**	3.3 U	**0.78 J[b]**	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 UJ	2.0 UJ
Vinyl chloride	µg/L	1.0 U	1.0 U	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	1.4 J	2.0 U	**130 J[b]**	0.56 J	2.5 U	**4200[b]**	2.0 U	4.0 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**BH20-13 DP&L**	**BH20-13 DP&L**	**GW-2**	**GW-3**	**GW-5**	**GW-5**	**GW-5**	**GW-6**	**GW-7**	**GW-8**
Sample ID:		**GW-38443-022613-JC-040**	**GW-38443-022613-JC-041**	**GW-38443-010710-NZ-015**	**GW-38443-010710-JC-018**	**GW-38443-011110-NZ-024**	**GW-38443-062415-JC-029**	**GW-38443-062415-JC-030**	**GW-38443-011110-JC-025**	**GW-38443-012510-NZ-032**	**GW-38443-012510-NZ-031**
Sample Date:		**2/26/2013**	**2/26/2013**	**1/7/2010**	**1/7/2010**	**1/11/2010**	**6/24/2015**	**6/24/2015**	**1/11/2010**	**1/25/2010**	**1/25/2010**
Sample Depth:		**27-31 ft BGS**	**27-31 ft BGS Duplicate**	**20.4-30.4 ft BGS**	**22-32 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS Duplicate**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
2,4,5-Trichlorophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
2,4,6-Trichlorophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
2,4-Dichlorophenol	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
2,4-Dimethylphenol	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.1	2.0 U	2.0 U
2,4-Dinitrophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
2,4-Dinitrotoluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
2,6-Dinitrotoluene	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
2-Chloronaphthalene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
2-Chlorophenol	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
2-Methylnaphthalene	µg/L	0.20 U	0.20 U	2.9	0.20 U	31[b]	-	-	90[b]	0.20 U	0.20 U
2-Methylphenol	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
2-Nitroaniline	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
2-Nitrophenol	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
3&4-Methylphenol	µg/L	2.0 U	2.0 U	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
3-Nitroaniline	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
4,6-Dinitro-2-methylphenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
4-Bromophenyl phenyl ether	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
4-Chloro-3-methylphenol	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
4-Chloroaniline	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
4-Chlorophenyl phenyl ether	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
4-Methylphenol	µg/L	-	-	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
4-Nitroaniline	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
4-Nitrophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
Acenaphthene	µg/L	0.20 U	0.20 U	0.26	0.20 U	0.29	-	-	0.40	0.20 U	0.20 U
Acenaphthylene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Acetophenone	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Anthracene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Atrazine	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Benzaldehyde	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Benzo(a)anthracene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Benzo(a)pyrene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Benzo(b)fluoranthene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Benzo(g,h,i)perylene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Benzo(k)fluoranthene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Biphenyl (1,1-Biphenyl)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
bis(2-Chloroethoxy)methane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
bis(2-Chloroethyl)ether	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.0 U	2.0 U	2.3	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
Butyl benzylphthalate (BBP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Caprolactam	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	-	-	5.0 UJ	5.0 U	5.0 U
Carbazole	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Chrysene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Dibenz(a,h)anthracene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Dibenzofuran	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Diethyl phthalate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Dimethyl phthalate	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Di-n-butylphthalate (DBP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Di-n-octyl phthalate (DnOP)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Fluoranthene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Fluorene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.33	0.20 U	0.20 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH20-13 DP&L	BH20-13 DP&L	GW-2	GW-3	GW-5	GW-5	GW-5	GW-6	GW-7	GW-8
Sample ID:		GW-38443-022613-JC-040	GW-38443-022613-JC-041	GW-38443-010710-NZ-015	GW-38443-010710-JC-018	GW-38443-011110-NZ-024	GW-38443-062415-JC-029	GW-38443-062415-JC-030	GW-38443-011110-JC-025	GW-38443-012510-NZ-032	GW-38443-012510-NZ-031
Sample Date:		2/26/2013	2/26/2013	1/7/2010	1/7/2010	1/11/2010	6/24/2015	6/24/2015	1/11/2010	1/25/2010	1/25/2010
Sample Depth:		27-31 ft BGS	27-31 ft BGS Duplicate	20.4-30.4 ft BGS	22-32 ft BGS	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS Duplicate	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Hexachlorobutadiene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Hexachlorocyclopentadiene	µg/L	10 U	10 U	10 U	10 U	10 U	-	-	10 U	10 U	10 U
Hexachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Indeno(1,2,3-cd)pyrene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Isophorone	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Naphthalene	µg/L	0.20 U	0.20 U	14[b]	0.20 U	130[b]	-	-	250[b]	0.20 U	2.6[b]
Nitrobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
N-Nitrosodi-n-propylamine	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
N-Nitrosodiphenylamine	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Pentachlorophenol	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
Phenanthrene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.23	0.20 U	0.20 U
Phenol	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Pyrene	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Metals											
Aluminum	µg/L	200 U	200 U	200 U	200 U	200 U	-	-	200 U	200 U	200 U
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	10 U	10 U	2.0 U	2.0 U	2.0 U	-	-	2.0 U	2.0 U	2.0 U
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	10 U	10 U	2.3 J[b]	0.81 J[b]	93.2[ab]	-	-	51.0[ab]	5.0 U	130[ab]
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	170 J	180 J	2970[ab]	133 J	12700[ab]	-	-	21000[ab]	217	5810[ab]
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	-	-	5.0 U	5.0 U	5.0 U
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	2.0 U	2.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	170000	170000	148000	140000	100000	-	-	80600	118000	128000
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	5.0 U	5.0 U	10.0 U	10.0 U	10.0 U	-	-	10.0 U	10.0 U	10.0 U
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	7.0 U	7.0 U	50.0 U	50.0 U	50.0 U	-	-	50.0 U	3.1 J[b]	50.0 U
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	25 U	25 U	25.0 U	25.0 U	25.0 U	-	-	25.0 U	25.0 U	25.0 U
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	1200	1200	4700[b]	100 U	9820[b]	-	-	6470[b]	100 U	5080[b]
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	3.0 U	3.0 U	1.0 U	1.0 U	1.0	-	-	0.22 J	1.0 U	1.0
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	52000	52000	54300	45900	49700	-	-	51200	40900	47800
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	200[b]	220[b]	292[b]	17.3	234[b]	-	-	232[b]	1200[b]	195[b]
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	125 U	125 U	89 J	-	-	279 J	147	1368
Mercury	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	9.1 J	9.0 J	40.0 U	40.0 U	40.0 U	-	-	40.0 U	40.0 U	40.0 U
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH20-13 DP&L	BH20-13 DP&L	GW-2	GW-3	GW-5	GW-5	GW-5	GW-6	GW-7	GW-8
Sample ID:		GW-38443-022613-JC-040	GW-38443-022613-JC-041	GW-38443-010710-NZ-015	GW-38443-010710-JC-018	GW-38443-011110-NZ-024	GW-38443-062415-JC-029	GW-38443-062415-JC-030	GW-38443-011110-JC-025	GW-38443-012510-NZ-032	GW-38443-012510-NZ-031
Sample Date:		2/26/2013	2/26/2013	1/7/2010	1/7/2010	1/11/2010	6/24/2015	6/24/2015	1/11/2010	1/25/2010	1/25/2010
Sample Depth:		27-31 ft BGS	27-31 ft BGS Duplicate	20.4-30.4 ft BGS	22-32 ft BGS	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS Duplicate	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	12000	12000	12800	8210	9620	-	-	9650	9290	10400
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	8.0	6.2	5.0 U	14.9[b]	5.0 U	-	-	5.0 U	5.0 U	5.0 U
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	5.0 U	5.0 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	120000	120000	119000	50900	75900	-	-	87000	48200	76300
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	10 U	10 U	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	7.0 U	7.0 U	50.0 U	50.0 U	50.0 U	-	-	50.0 U	50.0 U	50.0 U
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	20 U	20 U	20.0 U	20.0 U	20.0 U	-	-	20.0 U	20.0 U	20.0 U
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	0.48 U	0.48 U	0.20 UJ	0.20 U	0.20 UJ	-	-	0.20 UJ	0.20 U	0.20 U
Aroclor-1221 (PCB-1221)	µg/L	0.48 U	0.48 U	0.20 UJ	0.20 U	0.20 UJ	-	-	0.20 UJ	0.20 U	0.20 U
Aroclor-1232 (PCB-1232)	µg/L	0.48 U	0.48 U	0.20 UJ	0.20 U	0.20 UJ	-	-	0.20 UJ	0.20 U	0.20 U
Aroclor-1242 (PCB-1242)	µg/L	0.48 U	0.48 U	0.20 UJ	0.20 U	0.20 UJ	-	-	0.20 UJ	0.20 U	0.20 U
Aroclor-1248 (PCB-1248)	µg/L	0.48 U	0.48 U	0.20 UJ	0.20 U	0.20 UJ	-	-	0.20 UJ	0.20 U	0.20 U
Aroclor-1254 (PCB-1254)	µg/L	0.48 U	0.48 U	0.20 UJ	0.20 U	0.20 UJ	-	-	0.20 UJ	0.20 U	0.20 U
Aroclor-1260 (PCB-1260)	µg/L	0.48 U	0.48 U	0.20 UJ	0.20 U	0.20 UJ	-	-	0.20 UJ	0.20 U	0.20 U
Pesticides											
4,4'-DDD	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
4,4'-DDE	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
4,4'-DDT	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Aldrin	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
alpha-BHC	µg/L	-	-	0.050 UJ	0.050 UJ	0.25 U	-	-	0.038 J[b]	0.050 U	0.050 U
alpha-Chlordane	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
beta-BHC	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
delta-BHC	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Dieldrin	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Endosulfan I	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Endosulfan II	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Endosulfan sulfate	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Endrin	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Endrin aldehyde	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Endrin ketone	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
gamma-BHC (lindane)	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
gamma-Chlordane	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Heptachlor	µg/L	-	-	0.050 UJ	0.050 UJ	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Heptachlor epoxide	µg/L	-	-	0.050 U	0.050 U	0.25 U	-	-	0.050 U	0.050 U	0.050 U
Methoxychlor	µg/L	-	-	0.10 U	0.10 U	0.50 U	-	-	0.10 U	0.10 U	0.10 U
Toxaphene	µg/L	-	-	2.0 U	2.0 U	10 U	-	-	2.0 U	2.0 U	2.0 U
Gases											
Ethane	µg/L	-	-	5.0 UJ	0.50 UJ	3.0 J	-	-	2.9 J	0.50 UJ	2.5 UJ
Ethene	µg/L	-	-	5.0 U	0.50 U	5.0 U	-	-	5.0 U	0.50 UJ	2.5 UJ
Methane	µg/L	-	-	3000	0.19 J	5500	-	-	8200	7.4	2100

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH20-13 DP&L	BH20-13 DP&L	GW-2	GW-3	GW-5	GW-5	GW-5	GW-6	GW-7	GW-8
Sample ID:		GW-38443-022613-JC-040	GW-38443-022613-JC-041	GW-38443-010710-NZ-015	GW-38443-010710-JC-018	GW-38443-011110-NZ-024	GW-38443-062415-JC-029	GW-38443-062415-JC-030	GW-38443-011110-JC-025	GW-38443-012510-NZ-032	GW-38443-012510-NZ-031
Sample Date:		2/26/2013	2/26/2013	1/7/2010	1/7/2010	1/11/2010	6/24/2015	6/24/2015	1/11/2010	1/25/2010	1/25/2010
Sample Depth:		27-31 ft BGS	27-31 ft BGS	20.4-30.4 ft BGS	22-32 ft BGS	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS	24-34 ft BGS
			Duplicate					Duplicate			
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	1.0 U	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	4.0 UJ	4.0 UJ	4.0 U	-	-	4.0 U	4.0 U	4.0 U
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	598000	397000	466000	-	-	458000	396000	480000
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	168000	89400	128000	-	-	136000	98800	148000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	3000	1000	4000	-	-	4000	1000	2000
Hardness	µg/L	-	-	594000	539000	455000	-	-	412000	463000	515000
Nitrate (as N)	µg/L	-	-	100 U	2000	100 U	-	-	100 U	100 U	100 U
Nitrite (as N)	µg/L	-	-	100 U	100 U	100 U	-	-	100 U	100 U	100 U
Sulfate	µg/L	-	-	16600	91400	1000 U	-	-	1200	68800	2800
Sulfide (acid soluble)	µg/L	-	-	3000 U	3000 U	3000 U	-	-	3000 U	3000 U	3000 U
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-1**	**MW-3**	**MW-4**	**MW-222A**	**MW-222A**	**MW-223A**	**MW-223A**	**MW-224A**	**MW-224A**	**MW-A**
Sample ID:		**GW-38443-010710-JC-017**	**GW-38443-010710-NZ-016**	**GW-38443-010610-DR-013**	**GW-38443-041310-NZ-007**	**GW-38443-051215-GL-009**	**GW-38443-041310-NZ-005**	**GW-38443-102518-JC-227**	**GW-38443-041310-GL-001**	**GW-38443-101618-AS-215**	**GW-38443-010810-NZ-020**
Sample Date:		**1/7/2010**	**1/7/2010**	**1/6/2010**	**4/13/2010**	**5/12/2015**	**4/13/2010**	**10/25/2018**	**4/13/2010**	**10/16/2018**	**1/8/2010**
Sample Depth:		**24.4-34.4 ft BGS**	**20-30 ft BGS**	**N/A**	**20-30 ft BGS**	**20-30 ft BGS**	**33-38 ft BGS**	**33-38 ft BGS**	**35-40 ft BGS**	**35-40 ft BGS**	**N/A**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	1.0 U	0.25 J	6.7 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.13 U	1.0 U	0.13 U	6.7 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	0.090 U	6.7 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.38 J	1.0 U	0.17 U	6.7 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	1.0 U	0.19 U	6.7 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	0.26 U	6.7 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0086 U	2.0 U	0.0086 U	13 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0087 U	1.0 U	0.0087 U	6.7 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	0.15 U	6.7 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	1.0 UJ	0.21 U	6.7 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	0.15 U	6.7 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	0.15 U	6.7 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	1.0 U	0.16 U	6.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	1.2 U	10 U	1.2 U	14 J
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	0.54 U	10 U	0.54 U	67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 UJ	10 U	10 UJ	0.42 U	10 U	0.42 U	67 U
Acetone	µg/L	10 U	10 U	10 UJ	10 U	10 U	10 U	5.4 U	10 U	5.4 U	67 UJ
Benzene	µg/L	1.0 U	1.0 U	**2.5[b]**	1.0 U	1.0 U	1.0 U	0.13 U	1.0 U	0.13 U	**55[ab]**
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.17 U	1.0 U	0.17 U	6.7 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.76 U	1.0 U	0.76 U	6.7 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.42 U	1.0 UJ	0.42 U	6.7 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	1.0 U	0.28 U	6.7 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 UJ	0.26 U	6.7 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.14 U	1.0 U	0.14 U	6.7 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.83 U	1.0 U	0.83 UJ	6.7 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	0.20 J	1.0 U	**0.94 J[b]**	0.13 U	1.0 U	0.13 U	6.7 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	0.20 U	6.7 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6	1.1	1.0 U	0.16 U	6.7 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.61 U	1.0 U	0.61 U	6.7 U
Cyclohexane	µg/L	9.0	1.0 U	24	1.0 UJ	1.0 U	1.0 UJ	0.24 U	1.0 U	0.24 U	65
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 U	1.0 U	0.39 U	6.7 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	0.35 U	1.0 UJ	0.35 U	6.7 UJ
Ethylbenzene	µg/L	**5.2[b]**	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	0.11 U	1.0 U	0.11 U	**210[b]**
Isopropyl benzene	µg/L	3.5	1.0 U	26	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	0.090 U	23
m&p-Xylenes	µg/L	-	-	-	-	-	-	0.080 U	-	0.080 U	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	1.7 U	10 U	1.7 U	67 U
Methyl cyclohexane	µg/L	0.96 J	1.0 U	17	1.0 U	1.0 U	1.0 U	0.33 U	1.0 U	0.33 U	28
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	1.0 U	5.0 U	0.070 U	5.0 U	0.070 U	33 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	1.0 U	2.6 U	6.7 U
o-Xylene	µg/L	-	-	-	-	-	-	0.090 U	-	0.090 U	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	1.0 U	0.10 U	6.7 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	0.15 U	6.7 U
Toluene	µg/L	1.0 U	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	0.14 U	1.0 U	0.14 U	3.5 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 J	0.19 U	1.0 U	0.19 U	6.7 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.67 U	1.0 UJ	0.67 U	6.7 U
Trichloroethene	µg/L	**0.60 J[b]**	1.0 U	1.0 U	**0.33 J[b]**	1.0 U	**0.43 J[b]**	**0.55 J[b]**	1.0 U	0.10 U	6.7 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.45 U	1.0 U	0.45 U	6.7 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 U	1.0 U	0.41 UJ	6.7 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	0.20 U	6.7 U
Xylenes (total)	µg/L	3.4	2.0 U	0.90 J	2.0 U	2.0 U	2.0 U	0.15 U	2.0 U	0.15 U	**61[b]**

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-1**	**MW-3**	**MW-4**	**MW-222A**	**MW-222A**	**MW-223A**	**MW-223A**	**MW-224A**	**MW-224A**	**MW-A**	
Sample ID:		**GW-38443-010710-JC-017**	**GW-38443-010710-NZ-016**	**GW-38443-010610-DR-013**	**GW-38443-041310-NZ-007**	**GW-38443-051215-GL-009**	**GW-38443-041310-NZ-005**	**GW-38443-102518-JC-227**	**GW-38443-041310-GL-001**	**GW-38443-101618-AS-215**	**GW-38443-010810-NZ-020**	
Sample Date:		**1/7/2010**	**1/7/2010**	**1/6/2010**	**4/13/2010**	**5/12/2015**	**4/13/2010**	**10/25/2018**	**4/13/2010**	**10/16/2018**	**1/8/2010**	
Sample Depth:		**24.4-34.4 ft BGS**	**20-30 ft BGS**	**N/A**	**20-30 ft BGS**	**20-30 ft BGS**	**33-38 ft BGS**	**33-38 ft BGS**	**35-40 ft BGS**	**35-40 ft BGS**	**N/A**	
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	
Parameters	**Units**											
Semi-Volatiles												
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.55 U	-	0.53 U	1.0 U	
2,4,5-Trichlorophenol	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	2.0 U	-	1.9 U	5.0 U	
2,4,6-Trichlorophenol	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	1.8 U	-	1.7 U	5.0 U	
2,4-Dichlorophenol	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.26 U	-	0.25 U	2.0 U	
2,4-Dimethylphenol	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.51 U	-	0.50 U	2.0 U	
2,4-Dinitrophenol	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	6.1 U	-	6.0 U	5.0 U	
2,4-Dinitrotoluene	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	2.0 U	-	2.0 U	5.0 U	
2,6-Dinitrotoluene	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	2.1 U	-	2.1 U	5.0 U	
2-Chloronaphthalene	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.48 U	-	0.47 U	1.0 U	
2-Chlorophenol	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.27 U	-	0.27 U	1.0 U	
2-Methylnaphthalene	µg/L	0.20 U	0.20 UJ	14[b]	-	-	0.20 U	0.11 U	-	0.11 U	22[b]	
2-Methylphenol	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.21 U	-	0.20 U	1.0 U	
2-Nitroaniline	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.50 U	-	0.50 U	2.0 U	
2-Nitrophenol	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.56 U	-	0.55 U	2.0 U	
3&4-Methylphenol	µg/L	-	-	-	-	-	-	0.19 U	-	0.19 U	-	
3,3'-Dichlorobenzidine	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	1.1 U	-	1.1 U	5.0 U	
3-Nitroaniline	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.56 U	-	0.55 U	2.0 U	
4,6-Dinitro-2-methylphenol	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	2.8 U	-	2.7 U	5.0 U	
4-Bromophenyl phenyl ether	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.49 U	-	0.48 U	2.0 U	
4-Chloro-3-methylphenol	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.29 U	-	0.29 U	2.0 U	
4-Chloroaniline	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.31 U	-	0.31 U	2.0 U	
4-Chlorophenyl phenyl ether	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.55 U	-	0.53 U	2.0 U	
4-Methylphenol	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	-	-	-	1.0 U	
4-Nitroaniline	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	0.91 U	-	0.89 U	2.0 U	
4-Nitrophenol	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	2.2 U	-	2.1 U	5.0 U	
Acenaphthene	µg/L	0.20 U	0.20 UJ	1.9	-	-	0.20 U	0.17 U	-	0.17 U	1.0	
Acenaphthylene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.12 U	-	0.12 U	0.20 U	
Acetophenone	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.36 U	-	0.36 U	1.0 U	
Anthracene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.13 U	-	0.13 U	0.20 U	
Atrazine	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.94 U	-	0.92 U	1.0 U	
Benzaldehyde	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.75 U	-	0.74 U	1.0 U	
Benzo(a)anthracene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.17 U	-	0.17 U	0.20 U	
Benzo(a)pyrene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.17 U	-	0.17 U	0.20 U	
Benzo(b)fluoranthene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.15 U	-	0.15 U	0.20 U	
Benzo(g,h,i)perylene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.18 U	-	0.17 U	0.20 U	
Benzo(k)fluoranthene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.14 U	-	0.14 U	0.20 U	
Biphenyl (1,1-Biphenyl)	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.49 U	-	0.48 U	1.0 U	
bis(2-Chloroethoxy)methane	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.45 U	-	0.44 U	1.0 U	
bis(2-Chloroethyl)ether	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.40 U	-	0.39 U	1.0 U	
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.0 U	2.0 UJ	2.0 U	-	-	2.0 U	2.2 U	-	2.2 U	2.0 U	
Butyl benzylphthalate (BBP)	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.66 U	-	0.65 U	1.0 U	
Caprolactam	µg/L	5.0 U	5.0 UJ	5.0 UJ	-	-	5.0 U	0.92 U	-	0.91 U	5.0 U	
Carbazole	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.49 U	-	0.48 U	1.0 U	
Chrysene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.18 U	-	0.18 U	0.20 U	
Dibenz(a,h)anthracene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.15 U	-	0.15 U	0.20 U	
Dibenzofuran	µg/L	1.0 U	1.0 UJ	1.0[b]	-	-	1.0 U	0.56 U	-	0.54 U	0.51 J	
Diethyl phthalate	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	3.8 U	-	3.7 U	1.0 U	
Dimethyl phthalate	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.51 U	-	0.50 U	1.0 U	
Di-n-butylphthalate (DBP)	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	1.8 U	-	1.8 U	1.0 U	
Di-n-octyl phthalate (DnOP)	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.81 U	-	0.80 U	1.0 U	
Fluoranthene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.16 U	-	0.16 U	0.20 U	
Fluorene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.17 U	-	0.16 U	1.3	

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-1	MW-3	MW-4	MW-222A	MW-222A	MW-223A	MW-223A	MW-224A	MW-224A	MW-A
Sample ID:		GW-38443-010710-JC-017	GW-38443-010710-NZ-016	GW-38443-010610-DR-013	GW-38443-041310-NZ-007	GW-38443-051215-GL-009	GW-38443-041310-NZ-005	GW-38443-102518-JC-227	GW-38443-041310-GL-001	GW-38443-101618-AS-215	GW-38443-010810-NZ-020
Sample Date:		1/7/2010	1/7/2010	1/6/2010	4/13/2010	5/12/2015	4/13/2010	10/25/2018	4/13/2010	10/16/2018	1/8/2010
Sample Depth:		24.4-34.4 ft BGS	20-30 ft BGS	N/A	20-30 ft BGS	20-30 ft BGS	33-38 ft BGS	33-38 ft BGS	35-40 ft BGS	35-40 ft BGS	N/A
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.16 U	-	0.16 U	0.20 U
Hexachlorobutadiene	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.54 U	-	0.53 U	1.0 U
Hexachlorocyclopentadiene	µg/L	10 U	10 UJ	10 U	-	-	10 U	1.7 U	-	1.7 U	10 U
Hexachloroethane	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.39 U	-	0.38 U	1.0 U
Indeno(1,2,3-cd)pyrene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.13 U	-	0.13 U	0.20 U
Isophorone	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.32 U	-	0.31 U	1.0 U
Naphthalene	µg/L	0.39[b]	0.20 UJ	23[b]	-	-	0.20 U	0.11 U	-	0.11 U	44[b]
Nitrobenzene	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.51 U	-	0.50 U	1.0 U
N-Nitrosodi-n-propylamine	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.25 U	-	0.25 U	1.0 U
N-Nitrosodiphenylamine	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.44 U	-	0.43 U	1.0 U
Pentachlorophenol	µg/L	5.0 U	5.0 UJ	5.0 U	-	-	5.0 U	3.1 U	-	3.0 U	5.0 U
Phenanthrene	µg/L	0.20 U	0.20 UJ	2.6	-	-	0.20 U	0.17 U	-	0.16 U	0.71
Phenol	µg/L	1.0 U	1.0 UJ	1.0 U	-	-	1.0 U	0.13 U	-	0.12 U	1.0 U
Pyrene	µg/L	0.20 U	0.20 UJ	0.20 U	-	-	0.20 U	0.17 U	-	0.17 U	0.20 U
Metals											
Aluminum	µg/L	200 U	200 U	1340	-	-	-	34 U	-	34 U	165 J
Aluminum (dissolved)	µg/L	-	-	200 U	-	-	-	34 U	-	34 U	-
Antimony	µg/L	2.0 U	2.0 U	2.0 U	-	-	-	0.57 U	-	1.4 J[b]	2.0 U
Antimony (dissolved)	µg/L	-	-	2.0 U	-	-	-	0.57 U	-	1.3 J[b]	-
Arsenic	µg/L	0.68 J[b]	43.1[ab]	82.6[ab]	4.2 J[b]	-	1.1 J[b]	0.75 U	2.1 J[b]	2.2 J[b]	127[ab]
Arsenic (dissolved)	µg/L	-	-	74.6[ab]	-	-	-	0.75 U	-	2.9 J[b]	-
Barium	µg/L	157 J	617[b]	1610[b]	-	-	-	180	-	180	2860[ab]
Barium (dissolved)	µg/L	-	-	1690[b]	-	-	-	170	-	170	-
Beryllium	µg/L	5.0 U	5.0 U	5.0 U	-	-	-	0.31 U	-	0.33 J	5.0 U
Beryllium (dissolved)	µg/L	-	-	5.0 U	-	-	-	0.31 U	-	0.31 U	-
Cadmium	µg/L	1.0 U	1.0 U	1.0 U	-	-	-	0.21 U	-	0.21 U	1.0 U
Cadmium (dissolved)	µg/L	-	-	1.0 U	-	-	-	0.21 U	-	0.21 U	-
Calcium	µg/L	149000	148000	134000	-	-	-	150000	-	170000	148000
Calcium (dissolved)	µg/L	-	-	136000	-	-	-	140000	-	160000	-
Chromium	µg/L	10.0 U	10.0 U	10.0 U	-	-	-	0.98 U	-	0.98 U	10.0 U
Chromium (dissolved)	µg/L	-	-	10.0 U	-	-	-	0.98 U	-	0.98 U	-
Cobalt	µg/L	50.0 U	1.7 J[b]	50.0 U	-	-	-	0.19 U	-	0.19 U	50.0 U
Cobalt (dissolved)	µg/L	-	-	50.0 U	-	-	-	0.19 U	-	0.19 U	-
Copper	µg/L	25.0 U	25.0 U	25.0 U	-	-	-	1.7 U	-	1.7 U	25.0 U
Copper (dissolved)	µg/L	-	-	25.0 U	-	-	-	1.7 U	-	1.7 U	-
Iron	µg/L	112	2450[b]	10200[b]	-	-	-	47 U	-	47 U	8060[b]
Iron (dissolved)	µg/L	-	-	3410[b]	-	-	-	47 U	-	47 U	-
Lead	µg/L	1.0 U	1.0 U	3.3	15.5[ab]	-	1.1	0.45 U	0.29 J	0.45 U	0.51 J
Lead (dissolved)	µg/L	-	-	1.0 U	-	-	-	0.45 U	-	0.45 U	-
Magnesium	µg/L	49800	54500	47200	-	-	-	44000	-	41000	55400
Magnesium (dissolved)	µg/L	-	-	47500	-	-	-	41000	-	39000	-
Manganese	µg/L	184[b]	448[b]	746[b]	-	-	-	11	-	2.1 U	437[b]
Manganese (dissolved)	µg/L	-	-	356[b]	-	-	-	11	-	2.1 U	-
Manganese 2+	µg/L	747	3076	1069	-	-	-	-	-	-	913
Mercury	µg/L	0.20 U	0.20 U	0.20 U	-	-	-	0.13 U	-	0.13 U	0.14 J[b]
Mercury (dissolved)	µg/L	-	-	0.20 U	-	-	-	0.13 U	-	0.13 U	-
Nickel	µg/L	40.0 U	40.0 U	6.1 J	-	-	-	1.5 J	-	1.5 U	40.0 U
Nickel (dissolved)	µg/L	-	-	40.0 U	-	-	-	1.5 U	-	1.5 U	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-1**	**MW-3**	**MW-4**	**MW-222A**	**MW-222A**	**MW-223A**	**MW-223A**	**MW-224A**	**MW-224A**	**MW-224A**	**MW-A**
Sample ID:		**GW-38443-010710-JC-017**	**GW-38443-010710-NZ-016**	**GW-38443-010610-DR-013**	**GW-38443-041310-NZ-007**	**GW-38443-051215-GL-009**	**GW-38443-041310-NZ-005**	**GW-38443-102518-JC-227**	**GW-38443-041310-GL-001**	**GW-38443-101618-AS-215**	**GW-38443-101618-AS-215**	**GW-38443-010810-NZ-020**
Sample Date:		**1/7/2010**	**1/7/2010**	**1/6/2010**	**4/13/2010**	**5/12/2015**	**4/13/2010**	**10/25/2018**	**4/13/2010**	**10/16/2018**	**10/16/2018**	**1/8/2010**
Sample Depth:		**24.4-34.4 ft BGS**	**20-30 ft BGS**	**N/A**	**20-30 ft BGS**	**20-30 ft BGS**	**33-38 ft BGS**	**33-38 ft BGS**	**35-40 ft BGS**	**35-40 ft BGS**	**35-40 ft BGS**	**N/A**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Metals (cont'd)												
Potassium	µg/L	9250	10100	9750	-	-	-	8800	-	12000	12000	10900
Potassium (dissolved)	µg/L	-	-	9970	-	-	-	8300	-	11000	11000	-
Selenium	µg/L	**12.8[b]**	5.5	5.0 U	-	-	-	**13[b]**	-	**60[ab]**	**60[ab]**	5.0 U
Selenium (dissolved)	µg/L	-	-	5.0 U	-	-	-	**12[b]**	-	**60[ab]**	**60[ab]**	-
Silver	µg/L	1.0 U	0.36 J	1.0 U	-	-	-	2.0	-	0.24 J	0.24 J	1.0 U
Silver (dissolved)	µg/L	-	-	1.0 U	-	-	-	0.44 J	-	0.053 U	0.053 U	-
Sodium	µg/L	59500	63700	45500	-	-	-	69000	-	160000	160000	78000
Sodium (dissolved)	µg/L	-	-	48100	-	-	-	66000	-	160000	160000	-
Thallium	µg/L	1.0 U	1.0 U	1.0 U	-	-	-	**0.32 J[b]**	-	**0.49 J[b]**	**0.49 J[b]**	1.0 U
Thallium (dissolved)	µg/L	-	-	1.0 U	-	-	-	**0.30 J[b]**	-	**0.48 J[b]**	**0.48 J[b]**	-
Vanadium	µg/L	50.0 U	50.0 U	2.9 J	-	-	-	0.82 U	-	3.2 J	3.2 J	50.0 U
Vanadium (dissolved)	µg/L	-	-	50.0 U	-	-	-	0.82 U	-	3.2 J	3.2 J	-
Zinc	µg/L	20.0 U	20.0 U	24.7 U	-	-	-	15 U	-	15 U	15 U	20.0 U
Zinc (dissolved)	µg/L	-	-	20.0 U	-	-	-	15 U	-	15 U	15 U	-
PCBs												
Aroclor-1016 (PCB-1016)	µg/L	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.058 U	-	0.053 U	0.053 U	0.20 U
Aroclor-1221 (PCB-1221)	µg/L	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.059 U	-	0.054 U	0.054 U	0.20 U
Aroclor-1232 (PCB-1232)	µg/L	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.077 U	-	0.070 U	0.070 U	0.20 U
Aroclor-1242 (PCB-1242)	µg/L	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.079 U	-	0.072 U	0.072 U	0.20 U
Aroclor-1248 (PCB-1248)	µg/L	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.052 U	-	0.048 U	0.048 U	0.20 U
Aroclor-1254 (PCB-1254)	µg/L	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.042 U	-	0.038 U	0.038 U	0.20 U
Aroclor-1260 (PCB-1260)	µg/L	0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.048 U	-	0.044 U	0.044 U	0.20 U
Pesticides												
4,4'-DDD	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.055 U	-	0.0051 U	0.0051 U	0.25 U
4,4'-DDE	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.045 U	-	0.0041 U	0.0041 U	0.25 U
4,4'-DDT	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.050 U	-	0.0046 U	0.0046 U	0.25 U
Aldrin	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.025 U	-	0.0023 U	0.0023 U	0.25 U
alpha-BHC	µg/L	0.050 UJ	0.050 UJ	0.050 U	-	-	-	0.021 U	-	0.0019 U	0.0019 U	0.25 U
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.033 U	-	0.0031 U	0.0031 U	0.25 U
beta-BHC	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.048 U	-	0.0044 U	0.0044 U	0.25 U
delta-BHC	µg/L	0.050 U	0.050 U	0.011 J	-	-	-	0.045 U	-	0.0041 U	0.0041 U	0.25 U
Dieldrin	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.024 U	-	0.0022 U	0.0022 U	0.25 U
Endosulfan I	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.039 U	-	0.0036 U	0.0036 U	0.25 U
Endosulfan II	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.024 U	-	0.0022 U	0.0022 U	0.25 U
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.039 U	-	0.0036 U	0.0036 U	0.25 U
Endrin	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.026 U	-	0.0024 U	0.0024 U	0.25 U
Endrin aldehyde	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.048 U	-	0.0044 U	0.0044 U	0.25 U
Endrin ketone	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.042 U	-	0.0038 U	0.0038 U	0.25 U
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	0.016 J	-	-	-	0.026 U	-	0.0024 U	0.0024 U	0.25 U
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.052 U	-	0.0048 U	0.0048 U	0.25 U
Heptachlor	µg/L	0.050 UJ	0.050 UJ	0.050 U	-	-	-	0.034 U	-	0.0032 U	0.0032 U	0.25 U
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.050 U	-	-	-	0.027 U	-	0.0025 U	0.0025 U	0.25 U
Methoxychlor	µg/L	0.10 U	0.10 U	0.10 U	-	-	-	0.049 U	-	0.0045 U	0.0045 U	0.50 U
Toxaphene	µg/L	2.0 U	2.0 U	2.0 U	-	-	-	0.61 U	-	0.056 U	0.056 U	10 U
Gases												
Ethane	µg/L	0.50 UJ	0.50 UJ	2.5 UJ	-	-	-	-	-	-	-	5.0 UJ
Ethene	µg/L	0.50 U	0.50 U	2.5 U	-	-	-	-	-	-	-	5.0 U
Methane	µg/L	220	180	3400	-	-	-	-	-	-	-	3000

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-1**	**MW-3**	**MW-4**	**MW-222A**	**MW-222A**	**MW-223A**	**MW-223A**	**MW-224A**	**MW-224A**	**MW-A**
Sample ID:		**GW-38443-010710-JC-017**	**GW-38443-010710-NZ-016**	**GW-38443-010610-DR-013**	**GW-38443-041310-NZ-007**	**GW-38443-051215-GL-009**	**GW-38443-041310-NZ-005**	**GW-38443-102518-JC-227**	**GW-38443-041310-GL-001**	**GW-38443-101618-AS-215**	**GW-38443-010810-NZ-020**
Sample Date:		**1/7/2010**	**1/7/2010**	**1/6/2010**	**4/13/2010**	**5/12/2015**	**4/13/2010**	**10/25/2018**	**4/13/2010**	**10/16/2018**	**1/8/2010**
Sample Depth:		**24.4-34.4 ft BGS**	**20-30 ft BGS**	**N/A**	**20-30 ft BGS**	**20-30 ft BGS**	**33-38 ft BGS**	**33-38 ft BGS**	**35-40 ft BGS**	**35-40 ft BGS**	**N/A**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	0.57 U	-	0.57 U	-
2,4,5-TP (Silvex)	µg/L	1.0 U	1.0 U	1.0 U	-	-	-	0.43 U	-	0.43 U	1.0 U
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	4.0 UJ	4.0 UJ	4.0 UJ	-	-	-	2.2 U	-	2.2 U	4.0 UJ
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	433000	481000	489000	-	-	-	-	-	-	489000
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	102000	123000	86200	-	-	-	110000	-	310000	153000
Cyanide (total)	µg/L	-	-	-	-	-	-	6 U	-	6 U	-
Dissolved organic carbon (DOC)	µg/L	1000	1000	2000	-	-	-	-	-	-	3000
Hardness	µg/L	576000	594000	530000	-	-	-	-	-	-	599000
Nitrate (as N)	µg/L	1500	600	100 U	-	-	-	14 U	-	2600	100 U
Nitrite (as N)	µg/L	100 U	100 U	100 U	-	-	-	14 U	-	14 U	200
Sulfate	µg/L	90400	56800	1000 U	-	-	-	90000	-	140000	2500
Sulfide (acid soluble)	µg/L	3000 U	3000 U	3000 U	-	-	-	-	-	-	3000 U
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-A**	**MW-B**	**MW-B**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-062315-JC-026**	**GW-38443-010810-NZ-023**	**GW-38443-062315-JC-025**	**GW-38443-110409-DR-057**	**GW-38443-110409-DR-058**	**GW-38443-110409-DR-059**	**GW-38443-110409-DR-060**	**GW-38443-110409-DR-061**	**GW-38443-110509-DR-062**	**GW-38443-110509-DR-063**
Sample Date:		**6/23/2015**	**1/8/2010**	**6/23/2015**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/5/2009**	**11/5/2009**
Sample Depth:		**N/A**	**N/A**	**N/A**	**26-31 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**41-46 ft BGS**	**46-51 ft BGS**	**51-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,1,2,2-Tetrachloroethane	µg/L	3.3 U	120 UJ	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U
1,1,2-Trichloroethane	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,1-Dichloroethane	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,1-Dichloroethene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,2,4-Trichlorobenzene	µg/L	3.3 U	120 U	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	6.7 U	250 U	67 U	33 U	33 U	33 U	250 U	250 U	250 U	250 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,2-Dichlorobenzene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,2-Dichloroethane	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,3-Dichlorobenzene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
1,4-Dichlorobenzene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	9.9 J	1200 U	330 U	170 U	170 U	170 U	1200 UJ	1200 U	1200 U	1200 U
2-Hexanone	µg/L	33 U	1200 U	330 U	170 U	170 U	170 U	1200 U	1200 U	1200 U	1200 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	33 U	1200 U	330 U	170 U	170 U	170 U	1200 U	1200 U	1200 U	1200 U
Acetone	µg/L	53	1200 UJ	34 J	170 U	170 U	170 U	1200 U	1200 U	1200 U	1200 U
Benzene	µg/L	**80[ab]**	**1900[ab]**	**250[ab]**	**5.9 J[ab]**	**5.9 J[ab]**	**6.2 J[ab]**	**37 J[ab]**	120 U	120 U	120 U
Bromodichloromethane	µg/L	3.3 U	120 U	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U
Bromoform	µg/L	3.3 U	120 U	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U
Bromomethane (Methyl bromide)	µg/L	3.3 UJ	120 U	33 UJ	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Carbon disulfide	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Carbon tetrachloride	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Chlorobenzene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Chloroethane	µg/L	3.3 U	120 U	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U
Chloroform (Trichloromethane)	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Chloromethane (Methyl chloride)	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
cis-1,2-Dichloroethene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
cis-1,3-Dichloropropene	µg/L	3.3 U	120 U	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 UJ	120 UJ
Cyclohexane	µg/L	67	310	200	220	230	230	620	610	410	500
Dibromochloromethane	µg/L	3.3 U	120 U	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U
Dichlorodifluoromethane (CFC-12)	µg/L	3.3 U	120 UJ	33 U	17 U	17 U	17 U	120 U	120 U	120 UJ	120 UJ
Ethylbenzene	µg/L	**8.2[b]**	**2500[ab]**	**600[b]**	**330[b]**	**320[b]**	**350[b]**	**1900[ab]**	**1600[ab]**	**1600[ab]**	**1600[ab]**
Isopropyl benzene	µg/L	21	**83 J[b]**	38	**67[b]**	**66[b]**	**70[b]**	**100 J[b]**	**98 J[b]**	**110 J[b]**	**120[b]**
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	33 U	1200 U	330 U	170 U	170 U	170 U	1200 U	1200 U	1200 UJ	1200 UJ
Methyl cyclohexane	µg/L	40	120	87	120	130	120	210	220	150	190
Methyl tert butyl ether (MTBE)	µg/L	3.3 U	620 U	33 U	83 U	83 U	83 U	620 U	620 U	620 U	620 U
Methylene chloride	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 UJ	120 UJ
Tetrachloroethene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Toluene	µg/L	2.8 J	**3600[ab]**	64	10 J	9.8 J	11 J	**320[b]**	**300[b]**	86 J	100 J
trans-1,2-Dichloroethene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
trans-1,3-Dichloropropene	µg/L	3.3 U	120 U	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 UJ	120 UJ
Trichloroethene	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Trichlorofluoromethane (CFC-11)	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 UJ	120 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	3.3 U	120 U	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U
Vinyl chloride	µg/L	3.3 U	120 UJ	33 U	17 U	17 U	17 U	120 UJ	120 U	120 U	120 U
Xylenes (total)	µg/L	3.9 J	**13000[ab]**	**1100[b]**	**1200[b]**	**1200[b]**	**1300[b]**	**8100[b]**	**7100[b]**	**9400[b]**	**9200[b]**

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-A**	**MW-B**	**MW-B**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-062315-JC-026**	**GW-38443-010810-NZ-023**	**GW-38443-062315-JC-025**	**GW-38443-110409-DR-057**	**GW-38443-110409-DR-058**	**GW-38443-110409-DR-059**	**GW-38443-110409-DR-060**	**GW-38443-110409-DR-061**	**GW-38443-110509-DR-062**	**GW-38443-110509-DR-063**
Sample Date:		**6/23/2015**	**1/8/2010**	**6/23/2015**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/5/2009**	**11/5/2009**
Sample Depth:		**N/A**	**N/A**	**N/A**	**26-31 ft BGS**	**26-31 ft BGS Duplicate**	**31-36 ft BGS**	**36-41 ft BGS**	**41-46 ft BGS**	**46-51 ft BGS**	**51-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	7.0	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	**190[b]**	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	6.3 J	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	1.0	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	**1.6[b]**	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	4.1	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	0.50 J	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	1.3	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-A	MW-B	MW-B	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26
Sample ID:		GW-38443-062315-JC-026	GW-38443-010810-NZ-023	GW-38443-062315-JC-025	GW-38443-110409-DR-057	GW-38443-110409-DR-058	GW-38443-110409-DR-059	GW-38443-110409-DR-060	GW-38443-110409-DR-061	GW-38443-110509-DR-062	GW-38443-110509-DR-063
Sample Date:		6/23/2015	1/8/2010	6/23/2015	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/4/2009	11/5/2009	11/5/2009
Sample Depth:		N/A	N/A	N/A	26-31 ft BGS	26-31 ft BGS	31-36 ft BGS	36-41 ft BGS	41-46 ft BGS	46-51 ft BGS	51-56 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	10 U	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	180 J[b]	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	0.87	-	-	-	-	-	-	-	-
Phenol	µg/L	-	1.0 UJ	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	200 U	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	-	194[ab]	-	149[ab]	159[ab]	153[ab]	41.5[ab]	25.4[ab]	11.0[ab]	9.1[b]
Arsenic (dissolved)	µg/L	-	-	-	185[ab]	188[ab]	155[ab]	39.1[ab]	19.3[ab]	8.0[b]	9.2[b]
Barium	µg/L	-	14000[ab]	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	101000	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	10.0 U	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	50.0 U	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	25.0 U	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	8840[b]	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	-	0.35 J	-	0.25 J	0.24 J	0.27 J	2.1	1.9	13.9	3.7
Lead (dissolved)	µg/L	-	-	-	1.0 U	1.0 U	1.0 U	0.69 J	0.65 J	0.47 J	0.38 J
Magnesium	µg/L	-	50000	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	133[b]	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	402	-	-	-	-	-	-	-	-
Mercury	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	40.0 U	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-A**	**MW-B**	**MW-B**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-062315-JC-026**	**GW-38443-010810-NZ-023**	**GW-38443-062315-JC-025**	**GW-38443-110409-DR-057**	**GW-38443-110409-DR-058**	**GW-38443-110409-DR-059**	**GW-38443-110409-DR-060**	**GW-38443-110409-DR-061**	**GW-38443-110509-DR-062**	**GW-38443-110509-DR-063**
Sample Date:		**6/23/2015**	**1/8/2010**	**6/23/2015**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/5/2009**	**11/5/2009**
Sample Depth:		**N/A**	**N/A**	**N/A**	**26-31 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**41-46 ft BGS**	**46-51 ft BGS**	**51-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	-	9890	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	57400	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	50.0 U	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	20.0 U	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Endrin	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	0.50 U	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	10 U	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	3.4 J	-	-	-	-	-	-	-	-
Ethene	µg/L	-	5.0 U	-	-	-	-	-	-	-	-
Methane	µg/L	-	5800	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-A**	**MW-B**	**MW-B**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-062315-JC-026**	**GW-38443-010810-NZ-023**	**GW-38443-062315-JC-025**	**GW-38443-110409-DR-057**	**GW-38443-110409-DR-058**	**GW-38443-110409-DR-059**	**GW-38443-110409-DR-060**	**GW-38443-110409-DR-061**	**GW-38443-110509-DR-062**	**GW-38443-110509-DR-063**
Sample Date:		**6/23/2015**	**1/8/2010**	**6/23/2015**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/5/2009**	**11/5/2009**
Sample Depth:		**N/A**	**N/A**	**N/A**	**26-31 ft BGS**	**26-31 ft BGS Duplicate**	**31-36 ft BGS**	**36-41 ft BGS**	**41-46 ft BGS**	**46-51 ft BGS**	**51-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	1.0 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	4.0 UJ	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	451000	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	94000	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	5000	-	-	-	-	-	-	-	-
Hardness	µg/L	-	457000	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	100 U	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	100 U	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	1000 U	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	3000 U	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-26**	**VAS-27**	**VAS-27**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-110509-DR-064**	**GW-38443-111109-DR-088**	**GW-38443-111109-DR-089**	**GW-38443-111909-DR-099**	**GW-38443-111909-DR-100**	**GW-38443-111909-DR-101**	**GW-38443-030210-DR-001**	**GW-38443-030610-DR-016**	**GW-38443-030610-DR-017**	**GW-38443-030710-DR-018**
Sample Date:		**11/5/2009**	**11/11/2009**	**11/11/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**3/2/2010**	**3/6/2010**	**3/6/2010**	**3/7/2010**
Sample Depth:		**56-61 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**26-36 ft BGS**	**31-36 ft BGS**	**36-46 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	100 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	500 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	500 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	500 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Acetone	µg/L	500 U	1.4 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	50 U	**0.84 J[b]**	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	**0.84 J[b]**	**0.50 J[b]**
Bromodichloromethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	50 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	50 U	**0.65 J[b]**	**0.30 J[b]**	**0.38 J[b]**	**0.45 J[b]**	**0.47 J[b]**	0.20 J	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	50 U	0.26 J	0.65 J	1.0 U	1.0 U	1.1	0.49 J	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	50 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	390	0.54 J	0.22 J	1.0 U	1.0 U	0.36 J	1.0 U	0.27 J	0.72 J	0.37 J
Dibromochloromethane	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	50 UJ	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	**890[ab]**	0.37 J	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	0.39 J	0.24 J
Isopropyl benzene	µg/L	**82[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 J	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	500 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	210	0.53 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	250 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	50 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	50 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	0.43 J	0.44 J	0.44 J
Toluene	µg/L	29 J	1.5	1.0 U	0.87 J	1.0	13	3.5	4.8	4.7	2.3
trans-1,2-Dichloroethene	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	50 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	50 U	**0.42 J[b]**	**0.61 J[b]**	1.0 U	1.0 U	**0.30 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	50 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	**5100[b]**	0.80 J	2.0 U	2.0 U	2.0 U	0.69 J	2.0 U	2.0 U	0.71 J	0.50 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-26**	**VAS-27**	**VAS-27**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-110509-DR-064**	**GW-38443-111109-DR-088**	**GW-38443-111109-DR-089**	**GW-38443-111909-DR-099**	**GW-38443-111909-DR-100**	**GW-38443-111909-DR-101**	**GW-38443-030210-DR-001**	**GW-38443-030610-DR-016**	**GW-38443-030610-DR-017**	**GW-38443-030710-DR-018**
Sample Date:		**11/5/2009**	**11/11/2009**	**11/11/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**3/2/2010**	**3/6/2010**	**3/6/2010**	**3/7/2010**
Sample Depth:		**56-61 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**26-36 ft BGS**	**31-36 ft BGS**	**36-46 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-26**	**VAS-27**	**VAS-27**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-110509-DR-064**	**GW-38443-111109-DR-088**	**GW-38443-111109-DR-089**	**GW-38443-111909-DR-099**	**GW-38443-111909-DR-100**	**GW-38443-111909-DR-101**	**GW-38443-030210-DR-001**	**GW-38443-030610-DR-016**	**GW-38443-030610-DR-017**	**GW-38443-030710-DR-018**
Sample Date:		**11/5/2009**	**11/11/2009**	**11/11/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**3/2/2010**	**3/6/2010**	**3/6/2010**	**3/7/2010**
Sample Depth:		**56-61 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**26-36 ft BGS**	**31-36 ft BGS**	**36-46 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**2.7 J[b]**	**204[ab]**	**4.6 J[b]**	**0.70 J[b]**	**2.9 J[b]**	**141[ab]**	**4.0 J[b]**	-	-	-
Arsenic (dissolved)	µg/L	**1.9 J[b]**	**0.48 J[b]**	**0.50 J[b]**	**0.70 J[b]**	**0.86 J[b]**	**4.4 J[b]**	**0.62 J[b]**	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	3.0	**189[ab]**	3.5 U	1.0 U	3.0	**156[ab]**	5.0	-	-	-
Lead (dissolved)	µg/L	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U	3.8	0.71 J	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-26**	**VAS-27**	**VAS-27**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-110509-DR-064**	**GW-38443-111109-DR-088**	**GW-38443-111109-DR-089**	**GW-38443-111909-DR-099**	**GW-38443-111909-DR-100**	**GW-38443-111909-DR-101**	**GW-38443-030210-DR-001**	**GW-38443-030610-DR-016**	**GW-38443-030610-DR-017**	**GW-38443-030710-DR-018**
Sample Date:		**11/5/2009**	**11/11/2009**	**11/11/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**3/2/2010**	**3/6/2010**	**3/6/2010**	**3/7/2010**
Sample Depth:		**56-61 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**26-36 ft BGS**	**31-36 ft BGS**	**36-46 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-26**	**VAS-27**	**VAS-27**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-110509-DR-064**	**GW-38443-111109-DR-088**	**GW-38443-111109-DR-089**	**GW-38443-111909-DR-099**	**GW-38443-111909-DR-100**	**GW-38443-111909-DR-101**	**GW-38443-030210-DR-001**	**GW-38443-030610-DR-016**	**GW-38443-030610-DR-017**	**GW-38443-030710-DR-018**
Sample Date:		**11/5/2009**	**11/11/2009**	**11/11/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**3/2/2010**	**3/6/2010**	**3/6/2010**	**3/7/2010**
Sample Depth:		**56-61 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**26-36 ft BGS**	**31-36 ft BGS**	**36-46 ft BGS**	**46-56 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-30**	**VAS-30**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**	**VAS-42**	**VAS-42**
Sample ID:		**GW-38443-030710-DR-019**	**GW-38443-030710-DR-020**	**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**	**GW-38443-091018-JC-159**	**GW-38443-081518-JC-120**	**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**
Sample Date:		**3/7/2010**	**3/7/2010**	**9/7/2018**	**9/7/2018**	**9/7/2018**	**9/10/2018**	**9/10/2018**	**8/15/2018**	**8/16/2018**	**8/16/2018**
Sample Depth:		**56-66 ft BGS**	**56-66 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
			Duplicate								
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	0.17 U	0.17 U	0.17 U	0.17 U	0.28 J	0.18 J	0.20 J	0.18 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 UJ	0.26 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	10 U	10 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	10 U	10 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	**0.50 J[b]**	**0.49 J[b]**	0.13 U	0.13 U	**0.89 J[b]**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	**0.30 J[b]**	**0.35 J[b]**	0.17 U	0.17 U	0.17 U	0.17 U	**0.39 J[b]**	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	1.0 U	1.0 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	1.0 U	1.0 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	1.0 U	1.0 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	1.0 U	1.0 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	**0.53 J[b]**	**0.58 J[b]**	**6.6[b]**	**2.8[b]**	**1.1[b]**	**0.83 J[b]**	**0.90 J[b]**	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.16 U	0.16 U	0.16 U	0.16 U	0.28 J	1.7	3.4	**8.0[b]**
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.30 J	0.31 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	1.0 U	1.0 U	0.11 U	0.11 U	0.14 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	-	-	0.080 U	0.080 U	0.27 J	0.080 U	0.14 J	0.080 U	0.080 U	0.080 U
Methyl acetate	µg/L	10 U	10 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	1.0 U	1.0 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	-	-	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	0.15 U	0.17 J	0.29 J	0.22 J	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	1.6	1.5	0.16 J	0.21 J	0.84 J	0.45 J	2.0	0.18 J	0.33 J	1.4
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.35 J	1.0
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	**0.56 J[b]**	**0.56 J[b]**	0.10 U	0.10 U	0.10 U	0.20 J	**1.7[b]**	**2.2[b]**	**3.1[b]**	**9.0[ab]**
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	0.45 UJ	0.45 UJ	0.45 UJ	0.45 UJ	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	2.0 U	2.0 U	0.15 U	0.15 U	0.27 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-30**	**VAS-30**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**	**VAS-42**	**VAS-42**
Sample ID:		**GW-38443-030710-DR-019**	**GW-38443-030710-DR-020**	**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**	**GW-38443-091018-JC-159**	**GW-38443-081518-JC-120**	**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**
Sample Date:		**3/7/2010**	**3/7/2010**	**9/7/2018**	**9/7/2018**	**9/7/2018**	**9/10/2018**	**9/10/2018**	**8/15/2018**	**8/16/2018**	**8/16/2018**
Sample Depth:		**56-66 ft BGS**	**56-66 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
			Duplicate								
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-30	VAS-30	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-42	VAS-42	VAS-42
Sample ID:		GW-38443-030710-DR-019	GW-38443-030710-DR-020	GW-38443-090718-JC-155	GW-38443-090718-JC-156	GW-38443-090718-JC-157	GW-38443-091018-JC-158	GW-38443-091018-JC-159	GW-38443-081518-JC-120	GW-38443-081618-JC-121	GW-38443-081618-JC-122
Sample Date:		3/7/2010	3/7/2010	9/7/2018	9/7/2018	9/7/2018	9/10/2018	9/10/2018	8/15/2018	8/16/2018	8/16/2018
Sample Depth:		56-66 ft BGS	56-66 ft BGS Duplicate	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	940 U	100 U	1500	4300[b]	1200	64	770	34 U
Aluminum (dissolved)	µg/L	-	-	100 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Antimony	µg/L	-	-	2.3[b]	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	-	-	1.9 J[b]	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	-	-	0.99 J[b]	0.75 U	3.3 J[b]	6.7[b]	2.7 J[b]	0.75 U	2.0 J[b]	0.75 U
Arsenic (dissolved)	µg/L	-	-	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Barium	µg/L	-	-	120	210	270	310	320 J	110	140	69
Barium (dissolved)	µg/L	-	-	100	190	240	290	230 J	130	120	78
Beryllium	µg/L	-	-	0.54 J	0.35 J	0.31 U	1.1	0.31 U	0.84 J	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	-	-	0.35 J	0.31 U	0.31 U	0.31 U	0.31 U	0.40 J	0.31 U	0.31 U
Cadmium	µg/L	-	-	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	-	-	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	-	-	61000	110000	180000	220000	170000	120000	140000	110000
Calcium (dissolved)	µg/L	-	-	57000	97000	130000	140000	130000	130000	130000	120000
Chromium	µg/L	-	-	2.8	0.98 U	3.8	19	4.2	1.9 U	3.1 U	1.9 U
Chromium (dissolved)	µg/L	-	-	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	2.0 U	2.0 U	2.0 U
Cobalt	µg/L	-	-	0.89 U	0.94 U	2.3[b]	4.1[b]	1.8[b]	0.57 J	1.8[b]	1.4[b]
Cobalt (dissolved)	µg/L	-	-	0.35 U	0.76 U	0.96 U	1.0[b]	0.96 J[b]	0.51 J	0.85 J[b]	1.6[b]
Copper	µg/L	-	-	42	43	8.2 U	14	5.5	1.7 U	6.6	1.7 U
Copper (dissolved)	µg/L	-	-	2.8 U	3.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	-	-	1500 U	400 U	4300[b]	13000[b]	3900[b]	190	1900[b]	330
Iron (dissolved)	µg/L	-	-	400 U	47 U	400 U	690	48 J	73 J	150	400
Lead	µg/L	-	-	3.3	1.3 U	3.2	6.1	1.9	0.45 U	1.6	3.2
Lead (dissolved)	µg/L	-	-	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	2.7
Magnesium	µg/L	-	-	37000	49000	67000	82000	64000	44000	54000	44000
Magnesium (dissolved)	µg/L	-	-	35000	43000	45000	51000	48000	48000	48000	49000
Manganese	µg/L	-	-	92[b]	120[b]	300[b]	950[b]	510[b]	27	170[b]	300[b]
Manganese (dissolved)	µg/L	-	-	49 U	99[b]	180[b]	450[b]	560[b]	27	83[b]	340[b]
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	-	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	-	-	1.8 J	1.5 J	5.4	13	5.0	1.5 U	4.0	1.7 J
Nickel (dissolved)	µg/L	-	-	1.5 U	1.5 U	1.6 J	2.6	2.7	1.5 U	1.5 J	2.1

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-30	VAS-30	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-42	VAS-42	VAS-42
Sample ID:		GW-38443-030710-DR-019	GW-38443-030710-DR-020	GW-38443-090718-JC-155	GW-38443-090718-JC-156	GW-38443-090718-JC-157	GW-38443-091018-JC-158	GW-38443-091018-JC-159	GW-38443-081518-JC-120	GW-38443-081618-JC-121	GW-38443-081618-JC-122
Sample Date:		3/7/2010	3/7/2010	9/7/2018	9/7/2018	9/7/2018	9/10/2018	9/10/2018	8/15/2018	8/16/2018	8/16/2018
Sample Depth:		56-66 ft BGS	56-66 ft BGS Duplicate	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	-	-	5100	7400	9100	7900 J	9600	6900	7500	5800
Potassium (dissolved)	µg/L	-	-	4700	6400	8500	9700 J	6400	7600	7300	6500
Selenium	µg/L	-	-	5.1	15[b]	14[b]	10	14[b]	27[b]	14[b]	4.4 J
Selenium (dissolved)	µg/L	-	-	5.2	14[b]	14[b]	15[b]	10	30[b]	14[b]	5.0
Silver	µg/L	-	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	-	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	-	-	65000	130000	160000	140000 J	190000	54000	69000	64000
Sodium (dissolved)	µg/L	-	-	63000	110000	160000	200000 J	140000	59000	70000	71000
Thallium	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.32 J[b]	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	-	-	2.2 J	0.82 U	3.7 J	9.6[b]	2.9 J	0.82 U	2.5 J	0.82 U
Vanadium (dissolved)	µg/L	-	-	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 J	0.82 U	0.82 U
Zinc	µg/L	-	-	1200[b]	2000[b]	2400[b]	3300[b]	1300[b]	1100 J[b]	1300[b]	2400[b]
Zinc (dissolved)	µg/L	-	-	1000[b]	1600[b]	1800[b]	1300[b]	2800[b]	1400 J[b]	1100[b]	2500[b]
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-30**	**VAS-30**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**	**VAS-42**	**VAS-42**
Sample ID:		**GW-38443-030710-DR-019**	**GW-38443-030710-DR-020**	**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**	**GW-38443-091018-JC-159**	**GW-38443-081518-JC-120**	**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**
Sample Date:		**3/7/2010**	**3/7/2010**	**9/7/2018**	**9/7/2018**	**9/7/2018**	**9/10/2018**	**9/10/2018**	**8/15/2018**	**8/16/2018**	**8/16/2018**
Sample Depth:		**56-66 ft BGS**	**56-66 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Sampling Company:		**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	120000	230000	310000	370000	300000	100000	150000	140000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	1600	1000	580	610	1200	1900	680	330
Nitrite (as N)	µg/L	-	-	14 U	14 U	14 U	14 U	26 J	23 J	14 U	43 J
Sulfate	µg/L	-	-	57000	82000	83000	81000	68000	83000	85000	97000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-42	VAS-42	VAS-42	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43
Sample ID:		GW-38443-081618-JC-123	GW-38443-081718-JC-124	GW-38443-081718-JC-125	GW-38443-082318-JC-134	GW-38443-082318-JC-135	GW-38443-082318-JC-136	GW-38443-082318-JC-137	GW-38443-082418-JC-138	GW-38443-082418-JC-139	GW-38443-082418-JC-140
Sample Date:		8/16/2018	8/17/2018	8/17/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/24/2018	8/24/2018	8/24/2018
Sample Depth:		45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	25-30 ft BGS	25-30 ft BGS Duplicate	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.25 J	0.17 U	0.23 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	150 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.42 J	0.45 J	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	**0.31 J[b]**	**0.37 J[b]**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.33 J[b]**	**0.58 J[b]**
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	**5.2[b]**	**5.4[b]**	**5.8[b]**	0.16 U	0.16 U	0.29 J	0.53 J	1.6	**5.1[b]**	**6.1[b]**
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.15 J	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.22 J	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.17 J	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.35 J	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 J	0.23 J	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.62 J	0.33 J	0.34 J	2.5	3.4	2.3	4.0	1.8	0.69 J	2.3
trans-1,2-Dichloroethene	µg/L	0.42 J	0.35 J	0.38 J	0.19 U	0.19 U	0.19 U	0.19 U	0.35 J	0.72 J	0.49 J
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 UJ	0.67 UJ	0.67 UJ
Trichloroethene	µg/L	**2.8[b]**	**2.1[b]**	**2.1[b]**	**1.6[b]**	**1.6[b]**	**2.2[b]**	**2.1[b]**	**5.4[ab]**	**24[ab]**	**17[ab]**
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.22 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 J	0.15 U

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**	**GW-38443-081718-JC-125**	**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**	**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**
Sample Date:		**8/16/2018**	**8/17/2018**	**8/17/2018**	**8/23/2018**	**8/23/2018**	**8/23/2018**	**8/23/2018**	**8/24/2018**	**8/24/2018**	**8/24/2018**
Sample Depth:		**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**	**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-42	VAS-42	VAS-42	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43
Sample ID:		GW-38443-081618-JC-123	GW-38443-081718-JC-124	GW-38443-081718-JC-125	GW-38443-082318-JC-134	GW-38443-082318-JC-135	GW-38443-082318-JC-136	GW-38443-082318-JC-137	GW-38443-082418-JC-138	GW-38443-082418-JC-139	GW-38443-082418-JC-140
Sample Date:		8/16/2018	8/17/2018	8/17/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/24/2018	8/24/2018	8/24/2018
Sample Depth:		45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	25-30 ft BGS	25-30 ft BGS Duplicate	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	34 U	430	440	620	430	5100[b]	2700[b]	100	180	1000
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U	35 J	34 U
Antimony	µg/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	0.75 U	1.3 J[b]	1.1 J[b]	1.4 J[b]	1.1 J[b]	28[ab]	4.2 J[b]	0.75 U	0.75 U	1.8 J[b]
Arsenic (dissolved)	µg/L	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U	0.75 U
Barium	µg/L	110	140	150	110	110	190	120	98	82	94
Barium (dissolved)	µg/L	110	130	140	97	94	100	95	94	78	81
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.37 J	0.31 U	0.31 U	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 J	0.21 U	0.21 U	0.21 U	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	130000	130000	130000	150000	150000	180000	150000	140000	140000	150000
Calcium (dissolved)	µg/L	120000	120000	120000	130000	130000	130000	130000	140000	120000	120000
Chromium	µg/L	2.0 U	3.6 U	3.9 U	4.4 U	3.8 U	12 U	6.9 U	3.7 U	4.0 U	11 U
Chromium (dissolved)	µg/L	1.7 U	1.8 U	1.8 U	2.9 U	2.89 U	2.89 U	3.1 U	3.1 U	3.1 U	3.1 U
Cobalt	µg/L	2.6[b]	1.7[b]	1.8[b]	1.6[b]	1.4[b]	7.0[b]	3.7[b]	1.4[b]	0.95 J[b]	1.6[b]
Cobalt (dissolved)	µg/L	2.4[b]	1.1[b]	1.2[b]	0.87 J[b]	0.87 J[b]	1.5[b]	1.8[b]	1.2[b]	0.76 J[b]	0.67 J[b]
Copper	µg/L	1.7 U	2.7	2.9	6.5	5.5	34	17	1.7 U	1.7 U	5.9
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	670	4600[b]	4800[b]	1800[b]	1300	18000[b]	6800[b]	3500[b]	850	4900[b]
Iron (dissolved)	µg/L	570	1100	1200	100	89 J	390	87 J	3200[b]	230	210
Lead	µg/L	0.45 U	1.7	1.8	4.2	3.5	11	4.7	0.46 J	1.4	2.1
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.88 J	0.71 J	0.45 U	0.45 U	0.45 U	0.47 J	0.45 U
Magnesium	µg/L	53000	54000	53000	56000	53000	66000	54000	47000	48000	52000
Magnesium (dissolved)	µg/L	49000	47000	49000	48000 J	46000 J	47000 J	48000 J	45000	40000	41000
Manganese	µg/L	240[b]	190[b]	190[b]	160[b]	140[b]	790[b]	310[b]	360[b]	520[b]	550[b]
Manganese (dissolved)	µg/L	220[b]	140[b]	140[b]	99[b]	96[b]	230[b]	240[b]	350[b]	460[b]	460[b]
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	2.3	3.8	3.8	8.6	7.1	27	9.9	4.0	2.1	5.0
Nickel (dissolved)	µg/L	2.2	1.5 J	1.9 J	3.8	3.7	6.5	4.6	3.8	1.5 J	1.9 J

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-42	VAS-42	VAS-42	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43
Sample ID:		GW-38443-081618-JC-123	GW-38443-081718-JC-124	GW-38443-081718-JC-125	GW-38443-082318-JC-134	GW-38443-082318-JC-135	GW-38443-082318-JC-136	GW-38443-082318-JC-137	GW-38443-082418-JC-138	GW-38443-082418-JC-139	GW-38443-082418-JC-140
Sample Date:		8/16/2018	8/17/2018	8/17/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/24/2018	8/24/2018	8/24/2018
Sample Depth:		45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	25-30 ft BGS	25-30 ft BGS Duplicate	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Potassium	µg/L	7300	6700	6800	9800	9300	11000	10000	8400	7200	7200
Potassium (dissolved)	µg/L	6800	6300	6800	9500	9300	9000	9200	8500	7200	7000
Selenium	µg/L	4.0 J	4.5 J	4.6 J	18[b]	18[b]	19[b]	20[b]	19[b]	6.5	4.8 J
Selenium (dissolved)	µg/L	3.7 J	4.1 J	4.0 J	18[b]	18[b]	18[b]	19[b]	19[b]	6.6	5.0
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	77000	90000	90000	49000	46000	56000	62000	66000	55000	50000
Sodium (dissolved)	µg/L	72000	87000	92000	48000 J	47000 J	59000 J	61000 J	66000	54000	52000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.28 J[b]	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	1.5 J	1.6 J	2.4 J	2.0 J	13[b]	7.0	1.2 J	1.5 J	3.7 J
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.91 J
Zinc	µg/L	4900[b]	4800[b]	5000[b]	1000[b]	860[b]	2400[b]	6000[b]	3000[b]	780[b]	2100[b]
Zinc (dissolved)	µg/L	4200[b]	4100[b]	4400[b]	900[b]	820[b]	2000[b]	6600[b]	3200[b]	740[b]	1900[b]
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-

Table 3

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-42**	**VAS-42**	**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**	**GW-38443-081718-JC-125**	**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**	**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**
Sample Date:		**8/16/2018**	**8/17/2018**	**8/17/2018**	**8/23/2018**	**8/23/2018**	**8/23/2018**	**8/23/2018**	**8/24/2018**	**8/24/2018**	**8/24/2018**
Sample Depth:		**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**	**25-30 ft BGS**	**25-30 ft BGS Duplicate**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Ammonia-N	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	180000	190000	190000	79000	79000	78000	77000	82000	87000	82000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	100	93 J	93 J	2400	2400	2100	2000	2000	790	500
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	23 J	14 J
Sulfate	µg/L	82000	67000	67000	65000	65000	73000	79000	83000	87000	83000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:								MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS
Sample ID:								GW-38443-060809-DR-038	GW-38443-060809-DR-039	GW-38443-060809-DR-040	GW-38443-060809-DR-041	GW-38443-060809-DR-042	GW-38443-060809-DR-043	GW-38443-060809-DR-044	GW-38443-060909-DR-045
Sample Date:								6/8/2009	6/8/2009	6/8/2009	6/8/2009	6/8/2009	6/8/2009	6/8/2009	6/9/2009
Sample Depth:								57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	82-87 ft BGS Duplicate	87-92 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Volatiles															
1,1,1-Trichloroethane	µg/L	200	800	198	2	0.59	1.3	1.7 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	-	0.076	198	1	4.2	4.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	5	0.041	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	-	2.8	198	18	0.17	1.3	0.22 J	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	7	28	198	2	0.88	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	0.4	198	2	0.26	5.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.00033	198	1	0.011	0.011	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.05	0.0075	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	600	30	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5	0.17	198	3	0.82	1.6	1.0 U	1.0 U	1.6[b]	1.4[b]	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	5	0.82	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	-	-	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	75	0.48	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	197	11	0.57	5.4	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.84 J
2-Hexanone	µg/L	-	3.8	198	1	11	11	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	630	198	1	13	13	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Acetone	µg/L	-	1400	198	13	1.3	15	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5	0.46	198	55	0.17	360	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	80	0.13	198	12	0.18	2.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	80	3.3	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	-	0.75	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	-	81	198	8	0.34	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	5	0.46	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	100	7.8	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	-	2100	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	0.22	198	50	0.17	5.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	-	19	198	1	0.52	0.52	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	3.6	198	123	0.18	840	10[b]	11[b]	26[b]	24[b]	0.80 J	0.70 J	0.67 J	1.8
cis-1,3-Dichloropropene	µg/L	-	-	198	0	ND	ND	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	-	1300	198	86	0.12	890	0.62 J	0.54 J	1.0 UJ	1.0 UJ	0.58 J	0.58 J	0.57 J	1.0 U
Dibromochloromethane	µg/L	80	0.87	198	5	0.46	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	-	20	198	0	ND	ND	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Ethylbenzene	µg/L	700	1.5	198	22	0.11	1600	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	-	45	198	15	1.3	75	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	61	14	0.11	4800	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	-	2000	198	0	ND	ND	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U
Methyl cyclohexane	µg/L	-	-	198	20	0.58	190	0.69 J	0.62 J	0.58 J	1.0 UJ	0.65 J	0.65 J	0.66 J	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	-	14	198	2	0.17	0.22	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5	11	198	1	9.1	9.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	19	61	2	1.1	1.7	-	-	-	-	-	-	-	-
Styrene	µg/L	100	120	198	2	0.53	0.54	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	5	4.1	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	µg/L	1000	110	198	138	0.14	25	1.6 U	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
trans-1,2-Dichloroethene	µg/L	100	36	198	32	0.19	7	1.5	1.8	0.34 J	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	-	-	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	5	0.28	198	14	0.14	6.9	2.0 U	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	-	520	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	-	1000	198	0	ND	ND	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	2	0.019	198	115	0.22	260	1.0 UJ	1.0 U	3.8[ab]	3.7[ab]	4.3[ab]	4.6[ab]	4.6[ab]	4.2[ab]
Xylenes (total)	µg/L	10000	19	198	29	0.47	4800	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:								**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:								**GW-38443-060809-DR-038**	**GW-38443-060809-DR-039**	**GW-38443-060809-DR-040**	**GW-38443-060809-DR-041**	**GW-38443-060809-DR-042**	**GW-38443-060809-DR-043**	**GW-38443-060809-DR-044**	**GW-38443-060909-DR-045**
Sample Date:								**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/9/2009**
Sample Depth:								**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**82-87 ft BGS Duplicate**	**87-92 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Semi-Volatiles															
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	71	21	0	ND	ND	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	120	21	0	ND	ND	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	1.2	21	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	4.6	21	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	36	21	1	0.93	0.93	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	3.9	21	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	0.24	21	0	ND	ND	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	0.049	21	0	ND	ND	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	75	21	0	ND	ND	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	9.1	21	0	ND	ND	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	3.6	21	2	1.5	110	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	93	21	0	ND	ND	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	19	21	0	ND	ND	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	6	0	ND	ND	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	0.13	21	0	ND	ND	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	0.15	21	0	ND	ND	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	140	21	0	ND	ND	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	0.37	20	0	ND	ND	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	190	15	0	ND	ND	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	3.8	21	0	ND	ND	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	53	21	1	0.33	0.33	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	21	1	0.13	0.13	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	190	21	0	ND	ND	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	180	21	0	ND	ND	-	-	-	-	-	-	-	-
Atrazine	µg/L	3	0.3	21	0	ND	ND	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	19	21	0	ND	ND	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	0.03	21	0	ND	ND	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	0.2	0.025	21	0	ND	ND	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	0.25	21	0	ND	ND	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	2.5	21	0	ND	ND	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	0.083	21	1	0.46	0.46	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	5.9	21	0	ND	ND	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	0.014	21	0	ND	ND	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	6	5.6	21	3	1	7.9	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	16	21	0	ND	ND	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	990	21	0	ND	ND	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	25	21	0	ND	ND	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	0.025	21	1	0.35	0.35	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	0.79	21	0	ND	ND	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	1500	21	1	0.66	0.66	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	21	0	ND	ND	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	90	21	0	ND	ND	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	20	21	0	ND	ND	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	80	21	1	0.19	0.19	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	29	21	1	0.2	0.2	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	1	0.0098	21	0	ND	ND	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	0.14	21	0	ND	ND	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:								**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:								**GW-38443-060809-DR-038**	**GW-38443-060809-DR-039**	**GW-38443-060809-DR-040**	**GW-38443-060809-DR-041**	**GW-38443-060809-DR-042**	**GW-38443-060809-DR-043**	**GW-38443-060809-DR-044**	**GW-38443-060909-DR-045**
Sample Date:								**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/9/2009**
Sample Depth:								**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**82-87 ft BGS Duplicate**	**87-92 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Semi-Volatiles (cont'd)															
Hexachlorocyclopentadiene	µg/L	50	0.041	21	0	ND	ND	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	0.33	21	0	ND	ND	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	0.25	21	1	0.35	0.35	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	78	21	0	ND	ND	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	0.17	21	2	1.8	250	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	0.14	21	0	ND	ND	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	0.011	21	0	ND	ND	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	12	21	0	ND	ND	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	1	0.041	21	0	ND	ND	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	21	1	0.15	0.15	-	-	-	-	-	-	-	-
Phenol	µg/L	-	580	21	0	ND	ND	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	12	21	0	ND	ND	-	-	-	-	-	-	-	-
Metals															
Aluminum	µg/L	-	2000	71	62	35	63000	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	2000	66	15	55	16000	-	-	-	-	-	-	-	-
Antimony	µg/L	6	0.78	71	22	0.15	1.8	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	6	0.78	66	7	0.57	5.6	-	-	-	-	-	-	-	-
Arsenic	µg/L	10	0.052	176	176	0.97	221	**27.0[ab]**	**17.6[ab]**	**2.9 J[b]**	**2.9 J[b]**	**38.5[ab]**	**26.0[ab]**	**22.6[ab]**	**8.7[b]**
Arsenic (dissolved)	µg/L	10	0.052	141	139	0.49	10.7	**1.1 J[b]**	**1.4 J[b]**	**2.4 J[b]**	**2.0 J[b]**	**4.9 J[b]**	**4.8 J[b]**	**5.2[b]**	**5.1[b]**
Barium	µg/L	2000	380	71	71	78	1200	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	2000	380	66	66	65	1200	-	-	-	-	-	-	-	-
Beryllium	µg/L	4	2.5	71	22	0.32	3.4	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	4	2.5	66	12	0.32	0.94	-	-	-	-	-	-	-	-
Cadmium	µg/L	5	0.92	71	15	0.21	1.3	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	5	0.92	66	3	0.22	0.34	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	71	71	65000	480000	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	66	66	63000	160000	-	-	-	-	-	-	-	-
Chromium	µg/L	100	-	71	44	1.1	110	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	100	-	66	10	1.1	24	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	0.6	71	55	0.19	39	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	0.6	66	35	0.19	7.7	-	-	-	-	-	-	-	-
Copper	µg/L	1300	80	71	39	1.7	130	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	1300	80	66	6	2.2	27	-	-	-	-	-	-	-	-
Iron	µg/L	-	1400	71	71	1800	91000	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	1400	66	65	1100	21000	-	-	-	-	-	-	-	-
Lead	µg/L	15	15	176	154	0.28	392	**23.4[ab]**	13.5	1.4	0.75 J	**73.0[ab]**	**41.6[ab]**	**40.4[ab]**	13.3
Lead (dissolved)	µg/L	15	15	141	47	0.19	16	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 J	2.2 J	1.0 U
Magnesium	µg/L	-	-	71	71	30000	160000	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	66	66	28000	55000	-	-	-	-	-	-	-	-
Manganese	µg/L	-	43	71	71	52	2800	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	43	66	66	44	760	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	8	7	37	925	-	-	-	-	-	-	-	-
Mercury	µg/L	2	0.063	71	0	ND	ND	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	2	0.063	66	0	ND	ND	-	-	-	-	-	-	-	-
Nickel	µg/L	-	39	71	45	1.5	110	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	39	66	18	1.5	22	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	71	71	2680	24000	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	66	66	2560	18000	-	-	-	-	-	-	-	-
Selenium	µg/L	50	10	71	20	0.95	5.4	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:								**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:								**GW-38443-060809-DR-038**	**GW-38443-060809-DR-039**	**GW-38443-060809-DR-040**	**GW-38443-060809-DR-041**	**GW-38443-060809-DR-042**	**GW-38443-060809-DR-043**	**GW-38443-060809-DR-044**	**GW-38443-060909-DR-045**
Sample Date:								**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/9/2009**
Sample Depth:								**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**82-87 ft BGS Duplicate**	**87-92 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
Metals (cont'd)															
Selenium (dissolved)	µg/L	50	10	66	5	0.92	1.4	-	-	-	-	-	-	-	-
Silver	µg/L	-	9.4	71	14	0.056	23	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	9.4	66	1	3.2	3.2	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	71	71	23800	84000	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	66	66	23500	83000	-	-	-	-	-	-	-	-
Thallium	µg/L	2	0.02	71	18	0.21	1.5	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	2	0.02	66	4	0.2	0.35	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	8.6	71	39	0.68	130	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	8.6	66	9	0.85	31	-	-	-	-	-	-	-	-
Zinc	µg/L	-	600	71	56	28.3	2300	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	600	66	55	110	2300	-	-	-	-	-	-	-	-
PCBs															
Aroclor-1016 (PCB-1016)	µg/L	-	0.14	14	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	0.0047	14	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	0.0047	14	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	0.0078	14	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	0.0078	14	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	0.0078	14	0	ND	ND	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	0.0078	14	0	ND	ND	-	-	-	-	-	-	-	-
Pesticides															
4,4'-DDD	µg/L	-	0.0063	14	0	ND	ND	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	0.046	14	0	ND	ND	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	0.23	14	0	ND	ND	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	0.00092	14	0	ND	ND	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	0.0072	14	0	ND	ND	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	14	0	ND	ND	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	0.025	14	0	ND	ND	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	14	0	ND	ND	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	0.0018	14	0	ND	ND	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	14	1	0.17	0.17	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	14	0	ND	ND	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	11	14	0	ND	ND	-	-	-	-	-	-	-	-
Endrin	µg/L	2	0.23	14	0	ND	ND	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	14	0	ND	ND	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	14	0	ND	ND	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	0.2	0.042	14	0	ND	ND	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	14	0	ND	ND	-	-	-	-	-	-	-	-
Heptachlor	µg/L	0.4	0.0014	14	0	ND	ND	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	0.2	0.0014	14	0	ND	ND	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	40	3.7	14	0	ND	ND	-	-	-	-	-	-	-	-
Toxaphene	µg/L	3	0.071	14	0	ND	ND	-	-	-	-	-	-	-	-
Gases															
Ethane	µg/L	-	-	11	7	0.28	4.8	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	11	6	0.26	4.1	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	11	11	1.6	200	-	-	-	-	-	-	-	-
Herbicides															
2,4,5-T	µg/L	-	16	3	0	ND	ND	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	50	11	8	0	ND	ND	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	70	17	8	0	ND	ND	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:								**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:								**GW-38443-060809-DR-038**	**GW-38443-060809-DR-039**	**GW-38443-060809-DR-040**	**GW-38443-060809-DR-041**	**GW-38443-060809-DR-042**	**GW-38443-060809-DR-043**	**GW-38443-060809-DR-044**	**GW-38443-060909-DR-045**
Sample Date:								**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/9/2009**
Sample Depth:								**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**82-87 ft BGS Duplicate**	**87-92 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**	**# Samples**	**# Detects**	**Min**	**Max**								
General Chemistry															
Alkalinity, total (as CaCO3)	µg/L	-	-	11	11	288000	454000	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	71	71	52000	180000	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	200	0.15	9	0	ND	ND	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	11	11	1000	3000	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	11	11	369000	465000	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	10000	3200	71	34	14	4600	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	1000	200	71	0	ND	ND	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	71	71	4200	109000	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	11	0	ND	ND	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**GW-38443-060909-DR-046**	**GW-38443-060909-DR-047**	**GW-38443-060909-DR-048**	**GW-38443-060909-DR-049**	**GW-38443-060909-DR-050**	**GW-38443-060909-DR-051**	**GW-38443-060909-DR-052**	**GW-38443-060909-DR-053**	**GW-38443-061009-DR-055**	**GW-38443-061009-DR-056**
Sample Date:		**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/10/2009**	**6/10/2009**
Sample Depth:		**92-97 ft BGS**	**97-102 ft BGS**	**102-107 ft BGS**	**107-112 ft BGS**	**107-112 ft BGS Duplicate**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	0.71 J	0.73 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	3.7 J	3.8 J	2.8 J	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.49 J[b]**	**0.55 J[b]**
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.8	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	0.18 J	0.15 J	0.12 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	µg/L	0.90 J	1.1	0.87 J	0.50 J	0.52 J	0.58 J	0.36 J	0.49 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**4.3[ab]**	**11[ab]**	**17[ab]**	**2.3[ab]**	**2.2[ab]**	**2.2[ab]**	**0.45 J[b]**	**0.44 J[b]**	**4.4[ab]**	**4.7[ab]**
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**GW-38443-060909-DR-046**	**GW-38443-060909-DR-047**	**GW-38443-060909-DR-048**	**GW-38443-060909-DR-049**	**GW-38443-060909-DR-050**	**GW-38443-060909-DR-051**	**GW-38443-060909-DR-052**	**GW-38443-060909-DR-053**	**GW-38443-061009-DR-055**	**GW-38443-061009-DR-056**
Sample Date:		**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/10/2009**	**6/10/2009**
Sample Depth:		**92-97 ft BGS**	**97-102 ft BGS**	**102-107 ft BGS**	**107-112 ft BGS**	**107-112 ft BGS Duplicate**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**GW-38443-060909-DR-046**	**GW-38443-060909-DR-047**	**GW-38443-060909-DR-048**	**GW-38443-060909-DR-049**	**GW-38443-060909-DR-050**	**GW-38443-060909-DR-051**	**GW-38443-060909-DR-052**	**GW-38443-060909-DR-053**	**GW-38443-061009-DR-055**	**GW-38443-061009-DR-056**
Sample Date:		**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/10/2009**	**6/10/2009**
Sample Depth:		**92-97 ft BGS**	**97-102 ft BGS**	**102-107 ft BGS**	**107-112 ft BGS**	**107-112 ft BGS Duplicate**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**12.6[ab]**	**36.9[ab]**	**13.7[ab]**	**16.6[ab]**	**12.0[ab]**	**16.0[ab]**	**8.9[b]**	**12.4[ab]**	**3.6 J[b]**	**4.7 J[b]**
Arsenic (dissolved)	µg/L	**4.6 J[b]**	**2.5 J[b]**	**2.2 J[b]**	**1.7 J[b]**	**1.6 J[b]**	**1.4 J[b]**	**1.4 J[b]**	**1.1 J[b]**	**1.0 J[b]**	**0.89 J[b]**
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	**24.0[ab]**	**52.6[ab]**	**22.2[ab]**	**28.5[ab]**	**20.1[ab]**	**27.1[ab]**	**16.2[ab]**	**22.6[ab]**	4.0	6.1
Lead (dissolved)	µg/L	0.45 J	1.0 U	1.0 U	0.40 J	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**GW-38443-060909-DR-046**	**GW-38443-060909-DR-047**	**GW-38443-060909-DR-048**	**GW-38443-060909-DR-049**	**GW-38443-060909-DR-050**	**GW-38443-060909-DR-051**	**GW-38443-060909-DR-052**	**GW-38443-060909-DR-053**	**GW-38443-061009-DR-055**	**GW-38443-061009-DR-056**
Sample Date:		**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/10/2009**	**6/10/2009**
Sample Depth:		**92-97 ft BGS**	**97-102 ft BGS**	**102-107 ft BGS**	**107-112 ft BGS**	**107-112 ft BGS Duplicate**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**GW-38443-060909-DR-046**	**GW-38443-060909-DR-047**	**GW-38443-060909-DR-048**	**GW-38443-060909-DR-049**	**GW-38443-060909-DR-050**	**GW-38443-060909-DR-051**	**GW-38443-060909-DR-052**	**GW-38443-060909-DR-053**	**GW-38443-061009-DR-055**	**GW-38443-061009-DR-056**
Sample Date:		**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/10/2009**	**6/10/2009**
Sample Depth:		**92-97 ft BGS**	**97-102 ft BGS**	**102-107 ft BGS**	**107-112 ft BGS**	**107-112 ft BGS Duplicate**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-214	MW-214	MW-214	MW-214	MW-218B	MW-218B	MW-218B	MW-218B	VAS-13	VAS-13
Sample ID:		GW-38443-072209-GL-005	GW-38443-122309-DR-005	GW-38443-032318-GL-001	GW-38443-032318-GL-002	GW-38443-072109-GL-002	GW-38443-122209-DR-001	GW-38443-122209-DR-002	GW-38443-100517-SCT-011	GW-38443-120208-DD-151	GW-38443-120208-DD-152
Sample Date:		7/22/2009	12/23/2009	3/23/2018	3/23/2018	7/21/2009	12/22/2009	12/22/2009	10/5/2017	12/2/2008	12/2/2008
Sample Depth:		60-65 ft BGS	60-65 ft BGS	60-65 ft BGS	60-65 ft BGS Duplicate	70-75 ft BGS	70-75 ft BGS	70-75 ft BGS Duplicate	70-75 ft BGS	47-52 ft BGS	52-57 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	0.32 U	0.32 U	1.0 UJ	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U	0.34 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U	0.27 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 UJ	1.0 U	0.27 U	0.27 U	1.0 UJ	1.0 U	1.0 U	0.27 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	0.0086 U	0.0086 U	2.0 U	2.0 UJ	2.0 UJ	0.011 J[b]	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	0.0087 U	0.0087 U	1.0 U	1.0 U	1.0 U	0.0071 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	R	1.0 U	10 U	10 U	10 U	1.0 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	1.2 U	1.2 U	10 U	10 U	10 U	1.2 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	0.71 U	0.71 U	10 U	10 UJ	10 UJ	0.71 U	10 U	10 U
Acetone	µg/L	10 U	10 U	1.8 U	1.8 U	10 U	10 U	10 U	1.8 UJ	10 UJ	10 UJ
Benzene	µg/L	1.0 U	1.0 U	0.28 U	0.28 U	1.0 U	1.0 U	1.0 U	0.28 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	1.0 U	1.0 U	0.43 U	1.0 UJ	1.0 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	0.42 U	0.42 U	1.0 U	1.0 UJ	1.0 UJ	0.42 UJ	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 UJ	1.0 U	0.34 U	0.34 U	1.0 UJ	1.0 U	1.0 U	0.34 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	0.35 U	0.35 U	1.0 U	1.0 U	1.0 U	0.35 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U	1.0 UJ	1.0 UJ	0.41 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U	1.0 U	1.0 U	0.31 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	1.0 UJ	1.0 UJ	0.43 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	0.21 J
cis-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 U	0.26 U	0.26 U	1.0 UJ	1.0 UJ	1.0 UJ	0.26 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 UJ	1.0 U	0.44 U	0.44 U	1.0 UJ	1.0 U	1.0 U	0.44 U	0.16 J	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	0.50 U	0.50 U	1.0 UJ	1.0 UJ	1.0 UJ	0.50 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	0.24 U	0.24 U	-	-	-	0.24 U	-	-
Methyl acetate	µg/L	10 U	10 U	1.4 UJ	1.4 U	10 U	10 U	10 U	1.4 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 UJ	1.0 U	0.45 U	0.45 U	1.0 UJ	1.0 U	1.0 U	0.45 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	0.27 U	0.27 U	5.0 U	5.0 U	5.0 U	0.27 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	0.53 U	0.53 U	1.0 U	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	0.28 U	0.28 U	-	-	-	0.28 U	-	-
Styrene	µg/L	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	0.23 U	2.3	1.5
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.29 U	0.29 U	1.0 U	1.0 U	1.0 U	0.29 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 U	0.31 U	0.31 U	1.0 UJ	1.0 UJ	1.0 UJ	0.31 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	0.33 U	0.33 U	1.0 U	1.0 U	1.0 U	0.33 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	0.50 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U	1.0 U	1.0 U	0.41 U	1.0 U	1.0 U
Vinyl chloride	µg/L	0.49 J[b]	0.59 J[b]	1.2[b]	1.1[b]	1.0 U	1.0 U	1.0 U	0.45 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	0.24 U	0.24 U	2.0 U	2.0 U	2.0 U	0.24 U	2.0 U	2.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-214**	**MW-214**	**MW-214**	**MW-214**	**MW-218B**	**MW-218B**	**MW-218B**	**MW-218B**	**VAS-13**	**VAS-13**
Sample ID:		**GW-38443-072209-GL-005**	**GW-38443-122309-DR-005**	**GW-38443-032318-GL-001**	**GW-38443-032318-GL-002**	**GW-38443-072109-GL-002**	**GW-38443-122209-DR-001**	**GW-38443-122209-DR-002**	**GW-38443-100517-SCT-011**	**GW-38443-120208-DD-151**	**GW-38443-120208-DD-152**
Sample Date:		**7/22/2009**	**12/23/2009**	**3/23/2018**	**3/23/2018**	**7/21/2009**	**12/22/2009**	**12/22/2009**	**10/5/2017**	**12/2/2008**	**12/2/2008**
Sample Depth:		**60-65 ft BGS**	**60-65 ft BGS**	**60-65 ft BGS**	**60-65 ft BGS Duplicate**	**70-75 ft BGS**	**70-75 ft BGS**	**70-75 ft BGS Duplicate**	**70-75 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.0 U	1.0 U	0.44 U	0.40 U	1.0 U	1.0 U	1.0 U	0.38 U	-	-
2,4,5-Trichlorophenol	µg/L	5.0 U	5.0 U	0.33 U	0.30 U	5.0 U	5.0 U	5.0 U	0.29 U	-	-
2,4,6-Trichlorophenol	µg/L	5.0 U	5.0 U	0.26 U	0.24 U	5.0 U	5.0 U	5.0 U	0.23 U	-	-
2,4-Dichlorophenol	µg/L	2.0 U	2.0 U	0.21 U	0.19 U	2.0 U	2.0 U	2.0 U	0.18 U	-	-
2,4-Dimethylphenol	µg/L	2.0 U	2.0 U	0.27 U	0.25 U	2.0 U	2.0 U	2.0 U	0.24 U	-	-
2,4-Dinitrophenol	µg/L	5.0 U	5.0 U	0.35 U	0.32 U	5.0 U	5.0 U	5.0 U	0.30 U	-	-
2,4-Dinitrotoluene	µg/L	5.0 U	5.0 U	0.27 U	0.25 U	5.0 U	5.0 U	5.0 U	0.24 U	-	-
2,6-Dinitrotoluene	µg/L	5.0 U	5.0 U	0.88 U	0.80 U	5.0 U	5.0 U	5.0 U	0.76 U	-	-
2-Chloronaphthalene	µg/L	1.0 U	1.0 U	0.11 U	0.10 U	1.0 U	1.0 U	1.0 U	0.095 U	-	-
2-Chlorophenol	µg/L	1.0 U	1.0 U	0.32 U	0.29 U	1.0 U	1.0 U	1.0 U	0.28 U	-	-
2-Methylnaphthalene	µg/L	0.20 U	0.20 U	0.099 U	0.090 U	0.20 U	0.20 U	0.20 U	0.086 U	-	-
2-Methylphenol	µg/L	1.0 U	1.0 U	0.19 U	0.17 U	1.0 U	1.0 U	1.0 U	0.16 U	-	-
2-Nitroaniline	µg/L	2.0 U	2.0 U	0.23 U	0.21 U	2.0 U	2.0 U	2.0 U	0.20 U	-	-
2-Nitrophenol	µg/L	2.0 U	2.0 U	0.31 U	0.28 U	2.0 U	2.0 U	2.0 U	0.27 U	-	-
3&4-Methylphenol	µg/L	-	-	0.88 U	0.80 U	-	-	-	0.76 U	-	-
3,3'-Dichlorobenzidine	µg/L	5.0 U	5.0 U	0.41 U	0.37 U	5.0 U	5.0 U	5.0 U	0.35 U	-	-
3-Nitroaniline	µg/L	2.0 U	2.0 U	0.31 U	0.28 U	2.0 U	2.0 U	2.0 U	0.27 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	5.0 U	5.0 U	2.6 U	2.4 U	5.0 U	5.0 U	5.0 U	2.3 U	-	-
4-Bromophenyl phenyl ether	µg/L	2.0 U	2.0 U	0.24 U	0.22 U	2.0 U	2.0 U	2.0 U	0.21 U	-	-
4-Chloro-3-methylphenol	µg/L	2.0 U	2.0 U	0.23 U	0.21 U	2.0 U	2.0 U	2.0 U	0.20 U	-	-
4-Chloroaniline	µg/L	2.0 U	2.0 U	R	0.21 U	2.0 U	2.0 U	2.0 U	0.20 U	-	-
4-Chlorophenyl phenyl ether	µg/L	2.0 U	2.0 U	0.33 U	0.30 U	2.0 U	2.0 U	2.0 U	0.29 U	-	-
4-Methylphenol	µg/L	1.0 U	1.0 U	-	-	1.0 U	1.0 U	1.0 U	-	-	-
4-Nitroaniline	µg/L	2.0 U	2.0 U	0.24 U	0.22 U	2.0 U	2.0 U	2.0 U	0.21 U	-	-
4-Nitrophenol	µg/L	5.0 U	5.0 U	0.32 U	0.29 U	5.0 U	5.0 U	5.0 U	0.28 U	-	-
Acenaphthene	µg/L	0.20 U	0.20 U	0.049 U	0.044 U	0.20 U	0.20 U	0.20 U	0.042 U	-	-
Acenaphthylene	µg/L	0.20 U	0.20 U	0.053 U	0.048 U	0.20 U	0.20 U	0.20 U	0.046 U	-	-
Acetophenone	µg/L	1.0 U	1.0 U	0.37 U	0.34 U	1.0 U	1.0 U	1.0 U	0.32 U	-	-
Anthracene	µg/L	0.20 U	0.20 U	0.097 U	0.088 U	0.20 U	0.20 U	0.20 U	0.084 U	-	-
Atrazine	µg/L	1.0 U	1.0 U	0.37 U	0.34 U	1.0 U	1.0 U	1.0 U	0.32 U	-	-
Benzaldehyde	µg/L	1.0 U	1.0 U	0.43 U	0.39 U	1.0 U	1.0 U	1.0 U	0.37 U	-	-
Benzo(a)anthracene	µg/L	0.20 U	0.20 U	0.032 U	0.030 U	0.20 U	0.20 U	0.20 U	0.028 U	-	-
Benzo(a)pyrene	µg/L	0.20 U	0.20 U	0.056 U	0.051 U	0.20 U	0.20 U	0.20 U	0.049 U	-	-
Benzo(b)fluoranthene	µg/L	0.20 U	0.20 U	0.043 U	0.039 U	0.20 U	0.20 U	0.20 U	0.038 U	-	-
Benzo(g,h,i)perylene	µg/L	0.20 U	0.20 U	0.051 U	0.046 U	0.20 U	0.20 U	0.20 U	0.044 U	-	-
Benzo(k)fluoranthene	µg/L	0.20 U	0.20 U	0.049 U	0.045 U	0.20 U	0.20 U	0.20 U	0.043 U	-	-
Biphenyl (1,1-Biphenyl)	µg/L	1.0 U	1.0 U	0.14 U	0.13 U	1.0 U	1.0 U	1.0 U	0.12 U	-	-
bis(2-Chloroethoxy)methane	µg/L	1.0 U	1.0 U	0.35 U	0.32 U	1.0 U	1.0 U	1.0 U	0.30 U	-	-
bis(2-Chloroethyl)ether	µg/L	1.0 U	1.0 U	0.11 U	0.10 U	1.0 U	1.0 U	1.0 U	0.095 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	2.0 U	2.0 U	1.9 U	1.7 U	2.0 U	2.0 U	2.0 U	1.6 U	-	-
Butyl benzylphthalate (BBP)	µg/L	1.0 U	1.0 U	0.29 U	0.26 U	1.0 U	1.0 U	1.0 U	0.25 U	-	-
Caprolactam	µg/L	5.0 U	5.0 U	0.22 U	0.20 U	5.0 U	5.0 U	5.0 U	0.19 U	-	-
Carbazole	µg/L	1.0 U	1.0 U	0.31 U	0.28 U	1.0 U	1.0 U	1.0 U	0.27 U	-	-
Chrysene	µg/L	0.20 U	0.20 U	0.055 U	0.050 U	0.20 U	0.20 U	0.20 U	0.048 U	-	-
Dibenz(a,h)anthracene	µg/L	0.20 U	0.20 U	0.049 U	0.045 U	0.20 U	0.20 U	0.20 U	0.042 U	-	-
Dibenzofuran	µg/L	1.0 U	1.0 U	0.022 U	0.020 U	1.0 U	1.0 U	1.0 U	0.019 U	-	-
Diethyl phthalate	µg/L	1.0 U	1.0 U	0.66 U	0.66 J	1.0 U	1.0 U	1.0 U	0.57 U	-	-
Dimethyl phthalate	µg/L	1.0 U	1.0 U	0.32 U	0.29 U	1.0 U	1.0 U	1.0 U	0.28 U	-	-
Di-n-butylphthalate (DBP)	µg/L	1.0 U	1.0 U	1.9 U	1.7 U	1.0 U	1.0 U	1.0 U	1.6 U	-	-
Di-n-octyl phthalate (DnOP)	µg/L	1.0 U	1.0 U	0.25 U	0.23 U	1.0 U	1.0 U	1.0 U	0.22 U	-	-
Fluoranthene	µg/L	0.20 U	0.20 U	0.049 U	0.045 U	0.20 U	0.20 U	0.20 U	0.042 U	-	-
Fluorene	µg/L	0.20 U	0.20 U	0.045 U	0.041 U	0.20 U	0.20 U	0.20 U	0.039 U	-	-
Hexachlorobenzene	µg/L	0.20 U	0.20 U	0.094 U	0.085 U	0.20 U	0.20 U	0.20 U	0.081 U	-	-
Hexachlorobutadiene	µg/L	1.0 U	1.0 U	0.30 U	0.27 U	1.0 U	1.0 U	1.0 U	0.26 U	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-214	MW-214	MW-214	MW-214	MW-218B	MW-218B	MW-218B	MW-218B	VAS-13	VAS-13
Sample ID:		GW-38443-072209-GL-005	GW-38443-122309-DR-005	GW-38443-032318-GL-001	GW-38443-032318-GL-002	GW-38443-072109-GL-002	GW-38443-122209-DR-001	GW-38443-122209-DR-002	GW-38443-100517-SCT-011	GW-38443-120208-DD-151	GW-38443-120208-DD-152
Sample Date:		7/22/2009	12/23/2009	3/23/2018	3/23/2018	7/21/2009	12/22/2009	12/22/2009	10/5/2017	12/2/2008	12/2/2008
Sample Depth:		60-65 ft BGS	60-65 ft BGS	60-65 ft BGS	60-65 ft BGS Duplicate	70-75 ft BGS	70-75 ft BGS	70-75 ft BGS Duplicate	70-75 ft BGS	47-52 ft BGS	52-57 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	10 U	10 U	0.26 U	0.24 U	10 U	10 U	10 U	0.23 U	-	-
Hexachloroethane	µg/L	1.0 U	1.0 U	0.21 U	0.19 U	1.0 U	1.0 U	1.0 U	0.18 U	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.20 U	0.20 U	0.048 U	0.043 U	0.20 U	0.20 U	0.20 U	0.041 U	-	-
Isophorone	µg/L	1.0 U	1.0 U	0.30 U	0.27 U	1.0 U	1.0 U	1.0 U	0.26 U	-	-
Naphthalene	µg/L	0.20 U	0.20 U	0.069 U	0.063 U	0.20 U	0.20 U	0.20 U	0.060 U	-	-
Nitrobenzene	µg/L	1.0 U	1.0 U	0.044 U	0.040 U	1.0 U	1.0 U	1.0 U	0.038 U	-	-
N-Nitrosodi-n-propylamine	µg/L	1.0 U	1.0 U	0.26 U	0.24 U	1.0 U	1.0 U	1.0 U	0.23 U	-	-
N-Nitrosodiphenylamine	µg/L	1.0 U	1.0 U	0.34 U	0.31 U	1.0 U	1.0 U	1.0 U	0.30 U	-	-
Pentachlorophenol	µg/L	5.0 U	5.0 U	0.30 U	0.27 U	5.0 U	5.0 U	5.0 U	0.26 U	-	-
Phenanthrene	µg/L	0.20 U	0.20 U	0.068 U	0.062 U	0.20 U	0.20 U	0.20 U	0.059 U	-	-
Phenol	µg/L	1.0 U	1.0 U	0.66 U	0.60 U	1.0 U	1.0 U	1.0 U	0.57 U	-	-
Pyrene	µg/L	0.20 U	0.20 U	0.046 U	0.042 U	0.20 U	0.20 U	0.20 U	0.040 U	-	-
Metals											
Aluminum	µg/L	200 U	200 U	35 J	34 U	200 U	1050	920	140	-	-
Aluminum (dissolved)	µg/L	200 U	200 U	34 U	34 U	200 U	200 U	200 U	34 U	-	-
Antimony	µg/L	2.0 U	0.16 J	0.57 U	0.57 U	2.0 U	0.15 J	2.0 U	0.57 U	-	-
Antimony (dissolved)	µg/L	2.0 U	2.0 U	0.57 U	0.57 U	2.0 U	2.0 U	2.0 U	0.57 U	-	-
Arsenic	µg/L	2.6 J[b]	5.3[b]	9.3[b]	8.3[b]	4.0 J[b]	7.6[b]	7.8[b]	9.3[b]	35.6[ab]	25.8[ab]
Arsenic (dissolved)	µg/L	2.4 J[b]	5.0[b]	8.2[b]	8.1[b]	4.1 J[b]	6.7[b]	6.9[b]	8.6[b]	-	-
Barium	µg/L	200	199 J	150	150	186 J	191 J	197 J	250	-	-
Barium (dissolved)	µg/L	196 J	197 J	150	150	177 J	195 J	192 J	250	-	-
Beryllium	µg/L	5.0 U	5.0 U	0.31 U	0.31 U	5.0 U	5.0 U	5.0 U	0.31 U	-	-
Beryllium (dissolved)	µg/L	5.0 U	5.0 U	0.32 J	0.31 U	5.0 U	5.0 U	5.0 U	0.31 U	-	-
Cadmium	µg/L	1.0 U	1.0 U	1.3[b]	0.21 U	1.0 U	1.0 U	1.0 U	0.21 U	-	-
Cadmium (dissolved)	µg/L	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	1.0 U	1.0 U	0.21 U	-	-
Calcium	µg/L	107000	97200	120000	120000	98000	93600	96500	120000	-	-
Calcium (dissolved)	µg/L	104000	95300	120000	120000	92100	91900	90200	110000	-	-
Chromium	µg/L	10.0 U	10.0 U	1.5 J	0.98 U	10.0 U	10.0 U	10.0 U	0.98 U	-	-
Chromium (dissolved)	µg/L	10.0 U	10.0 U	0.98 U	0.98 U	10.0 U	10.0 U	10.0 U	0.98 U	-	-
Cobalt	µg/L	50.0 U	50.0 U	1.3[b]	0.19 U	50.0 U	50.0 U	50.0 U	0.19 U	-	-
Cobalt (dissolved)	µg/L	50.0 U	50.0 U	0.19 U	0.19 U	50.0 U	50.0 U	50.0 U	0.19 U	-	-
Copper	µg/L	25.0 U	25.0 U	1.7 U	1.7 U	25.0 U	25.0 U	25.0 U	1.7 U	-	-
Copper (dissolved)	µg/L	25.0 U	25.0 U	1.7 U	1.7 U	25.0 U	25.0 U	25.0 U	1.7 U	-	-
Iron	µg/L	4500[b]	2830[b]	3300[b]	3200[b]	4150[b]	3870[b]	3860[b]	3900[b]	-	-
Iron (dissolved)	µg/L	4320[b]	2940[b]	3200[b]	3100[b]	3770[b]	2450[b]	2420[b]	3600[b]	-	-
Lead	µg/L	1.0 U	0.34 J	1.9	0.45 U	1.0 U	0.87 J	0.76 J	0.45 U	31.9[ab]	23.0[ab]
Lead (dissolved)	µg/L	1.0 U	1.0 U	0.45 U	0.45 U	1.0 U	1.0 U	1.0 U	0.45 U	-	-
Magnesium	µg/L	48200	46200	48000	49000	33400	32900	34100	40000	-	-
Magnesium (dissolved)	µg/L	46800	45200	48000	48000	31400	32600	31900	38000	-	-
Manganese	µg/L	180[b]	225[b]	230[b]	240[b]	70.5[b]	94.0[b]	90.5[b]	66[b]	-	-
Manganese (dissolved)	µg/L	173[b]	218[b]	230[b]	230[b]	64.1[b]	57.8[b]	56.5[b]	60[b]	-	-
Manganese 2+	µg/L	404	126 J	-	-	250 U	37 J	44 J	-	-	-
Mercury	µg/L	0.20 U	0.20 U	0.13 U	0.13 U	0.20 U	0.20 U	0.20 U	0.13 U	-	-
Mercury (dissolved)	µg/L	0.20 U	0.20 U	0.13 U	0.13 U	0.20 U	0.20 U	0.20 U	0.13 U	-	-
Nickel	µg/L	40.0 U	40.0 U	2.2	1.5 U	40.0 U	40.0 U	40.0 U	1.7 J	-	-
Nickel (dissolved)	µg/L	40.0 U	40.0 U	1.5 U	1.5 U	40.0 U	40.0 U	40.0 U	1.5 U	-	-
Potassium	µg/L	14700	14900	9700	9900	2680 J	2870 J	2930 J	3500	-	-
Potassium (dissolved)	µg/L	14500	14800	9700	9700	2560 J	2680 J	2660 J	3300	-	-
Selenium	µg/L	5.0 U	5.0 U	1.0 J	0.89 U	5.0 U	5.0 U	5.0 U	0.89 U	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-214	MW-214	MW-214	MW-214	MW-218B	MW-218B	MW-218B	MW-218B	VAS-13	VAS-13
Sample ID:		GW-38443-072209-GL-005	GW-38443-122309-DR-005	GW-38443-032318-GL-001	GW-38443-032318-GL-002	GW-38443-072109-GL-002	GW-38443-122209-DR-001	GW-38443-122209-DR-002	GW-38443-100517-SCT-011	GW-38443-120208-DD-151	GW-38443-120208-DD-152
Sample Date:		7/22/2009	12/23/2009	3/23/2018	3/23/2018	7/21/2009	12/22/2009	12/22/2009	10/5/2017	12/2/2008	12/2/2008
Sample Depth:		60-65 ft BGS	60-65 ft BGS	60-65 ft BGS	60-65 ft BGS Duplicate	70-75 ft BGS	70-75 ft BGS	70-75 ft BGS Duplicate	70-75 ft BGS	47-52 ft BGS	52-57 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	5.0 U	5.0 U	0.89 U	0.89 U	5.0 U	5.0 U	5.0 U	0.89 U	-	-
Silver	µg/L	1.0 U	1.0 U	0.14 U	0.053 U	1.0 U	1.0 U	1.0 U	0.053 U	-	-
Silver (dissolved)	µg/L	1.0 U	1.0 U	0.053 U	0.053 U	1.0 U	1.0 U	1.0 U	0.053 U	-	-
Sodium	µg/L	74800	72600	78000	78000	24500	23800	24700	44000	-	-
Sodium (dissolved)	µg/L	73500	71800	78000	78000	23500	25200	24800	51000	-	-
Thallium	µg/L	1.0 U	1.0 U	0.64 J[b]	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	-	-
Thallium (dissolved)	µg/L	1.0 U	1.0 U	0.28 J[b]	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	-	-
Vanadium	µg/L	50.0 U	50.0 U	1.3 J	0.82 U	50.0 U	50.0 U	50.0 U	0.82 U	-	-
Vanadium (dissolved)	µg/L	50.0 U	50.0 U	0.82 U	0.82 U	50.0 U	50.0 U	50.0 U	0.82 U	-	-
Zinc	µg/L	20.0 U	20.0 U	15 U	15 U	20.0 U	20.0 U	20.0 U	15 U	-	-
Zinc (dissolved)	µg/L	20.0 U	20.0 U	15 U	15 U	20.0 U	20.0 U	20.0 U	15 U	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	0.20 U	0.20 U	0.056 U	0.048 U	0.20 U	0.20 U	0.20 U	0.048 U	-	-
Aroclor-1221 (PCB-1221)	µg/L	0.20 U	0.20 U	0.10 U	0.086 U	0.20 U	0.20 U	0.20 U	0.087 U	-	-
Aroclor-1232 (PCB-1232)	µg/L	0.20 U	0.20 U	0.078 U	0.067 U	0.20 U	0.20 U	0.20 U	0.067 U	-	-
Aroclor-1242 (PCB-1242)	µg/L	0.20 U	0.20 U	0.067 U	0.057 U	0.20 U	0.20 U	0.20 U	0.058 U	-	-
Aroclor-1248 (PCB-1248)	µg/L	0.20 U	0.20 U	0.056 U	0.048 U	0.20 U	0.20 U	0.20 U	0.048 U	-	-
Aroclor-1254 (PCB-1254)	µg/L	0.20 U	0.20 U	0.033 U	0.029 U	0.20 U	0.20 U	0.20 U	0.029 U	-	-
Aroclor-1260 (PCB-1260)	µg/L	0.20 U	0.20 U	0.044 U	0.038 U	0.20 U	0.20 U	0.20 U	0.038 U	-	-
Pesticides											
4,4'-DDD	µg/L	0.050 UJ	0.050 U	0.019 U	0.017 U	0.050 U	0.050 U	0.050 U	0.017 U	-	-
4,4'-DDE	µg/L	0.050 U	0.050 U	0.013 U	0.012 U	0.050 U	0.050 U	0.050 U	0.011 U	-	-
4,4'-DDT	µg/L	0.050 U	0.050 U	0.018 U	0.017 U	0.050 U	0.050 U	0.050 U	0.016 U	-	-
Aldrin	µg/L	0.050 U	0.050 U	0.014 U	0.013 U	0.050 U	0.050 U	0.050 U	0.012 U	-	-
alpha-BHC	µg/L	0.050 U	0.050 U	0.015 U	0.014 U	0.050 U	0.050 U	0.050 U	0.013 U	-	-
alpha-Chlordane	µg/L	0.050 U	0.050 U	0.013 U	0.012 U	0.050 U	0.050 U	0.050 U	0.011 U	-	-
beta-BHC	µg/L	0.050 U	0.050 U	0.019 U	0.017 U	0.050 U	0.050 U	0.050 U	0.017 U	-	-
delta-BHC	µg/L	0.050 U	0.050 U	0.030 U	0.028 U	0.050 U	0.050 U	0.050 U	0.028 U	-	-
Dieldrin	µg/L	0.050 U	0.050 U	0.014 U	0.013 U	0.050 U	0.050 U	0.050 U	0.012 U	-	-
Endosulfan I	µg/L	0.050 U	0.050 U	0.017 U	0.016 U	0.050 U	0.050 U	0.050 U	0.015 U	-	-
Endosulfan II	µg/L	0.050 U	0.050 U	0.016 U	0.015 U	0.050 U	0.050 U	0.050 U	0.014 U	-	-
Endosulfan sulfate	µg/L	0.050 U	0.050 U	0.016 U	0.015 U	0.050 U	0.050 U	0.050 U	0.014 U	-	-
Endrin	µg/L	0.050 U	0.050 U	0.014 U	0.013 U	0.050 U	0.050 U	0.050 U	0.012 U	-	-
Endrin aldehyde	µg/L	0.050 U	0.050 U	0.019 U	0.017 U	0.050 U	0.050 U	0.050 U	0.017 U	-	-
Endrin ketone	µg/L	0.050 U	0.050 U	0.017 U	0.016 U	0.050 U	0.050 U	0.050 U	0.015 U	-	-
gamma-BHC (lindane)	µg/L	0.050 U	0.050 U	0.014 U	0.013 U	0.050 U	0.050 U	0.050 U	0.012 U	-	-
gamma-Chlordane	µg/L	0.050 U	0.050 U	0.014 U	0.013 U	0.050 U	0.050 U	0.050 U	0.012 U	-	-
Heptachlor	µg/L	0.050 U	0.050 U	0.015 U	0.014 U	0.050 U	0.050 U	0.050 U	0.013 U	-	-
Heptachlor epoxide	µg/L	0.050 U	0.050 U	0.016 U	0.015 U	0.050 U	0.050 U	0.050 U	0.014 U	-	-
Methoxychlor	µg/L	0.10 U	0.10 UJ	0.014 U	0.013 U	0.10 U	0.10 UJ	0.10 UJ	0.012 U	-	-
Toxaphene	µg/L	2.0 U	2.0 U	0.20 U	0.19 U	2.0 U	2.0 U	2.0 U	0.19 U	-	-
Gases											
Ethane	µg/L	4.8	2.0 J	-	-	0.50 U	0.50 UJ	0.29 J	-	-	-
Ethene	µg/L	0.50 U	0.50 U	-	-	0.50 U	0.31 J	0.26 J	-	-	-
Methane	µg/L	75	42	-	-	3.6	2.6	2.8	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	0.24 U	-	-
2,4,5-TP (Silvex)	µg/L	1.0 U	-	-	-	1.0 U	-	-	0.20 U	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	4.0 U	-	-	-	4.0 U	-	-	1.1 U	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-214**	**MW-214**	**MW-214**	**MW-214**	**MW-218B**	**MW-218B**	**MW-218B**	**MW-218B**	**VAS-13**	**VAS-13**
Sample ID:		**GW-38443-072209-GL-005**	**GW-38443-122309-DR-005**	**GW-38443-032318-GL-001**	**GW-38443-032318-GL-002**	**GW-38443-072109-GL-002**	**GW-38443-122209-DR-001**	**GW-38443-122209-DR-002**	**GW-38443-100517-SCT-011**	**GW-38443-120208-DD-151**	**GW-38443-120208-DD-152**
Sample Date:		**7/22/2009**	**12/23/2009**	**3/23/2018**	**3/23/2018**	**7/21/2009**	**12/22/2009**	**12/22/2009**	**10/5/2017**	**12/2/2008**	**12/2/2008**
Sample Depth:		**60-65 ft BGS**	**60-65 ft BGS**	**60-65 ft BGS**	**60-65 ft BGS**	**70-75 ft BGS**	**70-75 ft BGS**	**70-75 ft BGS**	**70-75 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**
					Duplicate			**Duplicate**			
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	454000	409000	-	-	308000	288000	300000	-	-	-
Chloride	µg/L	124000	124000	120000	140000	54600	57900	58200	62000	-	-
Cyanide (total)	µg/L	10 U	-	6 U	6 U	10 U	-	-	5.0 U	-	-
Dissolved organic carbon (DOC)	µg/L	2000	2000	-	-	2000	2000	2000	-	-	-
Hardness	µg/L	465000	433000	-	-	382000	369000	381000	-	-	-
Nitrate (as N)	µg/L	100 U	100 U	14 U	14 U	100 U	100 U	100 U	14 U	-	-
Nitrite (as N)	µg/L	100 U	100 U	14 UJ	14 UJ	100 U	100 U	100 U	14 U	-	-
Sulfate	µg/L	55000	60500	64000	64000	69700	65100	66000	68000	-	-
Sulfide (acid soluble)	µg/L	3000 U	3000 U	-	-	3000 U	3000 U	3000 U	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**
Sample ID:		**GW-38443-120308-DD-153**	**GW-38443-120308-DD-154**	**GW-38443-120308-DD-155**	**GW-38443-120308-DD-156**	**GW-38443-120308-DD-157**	**GW-38443-120308-DD-158**	**GW-38443-011109-KMV-235**	**GW-38443-011109-KMV-236**	**GW-38443-120508-DD-164**	**GW-38443-120508-DD-165**
Sample Date:		**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**1/11/2009**	**1/11/2009**	**12/5/2008**	**12/5/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.78 J	0.87 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U
Acetone	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	0.29 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Cyclohexane	µg/L	0.17 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	0.33 J	0.21 J	0.21 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	0.32 J	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.57 J	0.43 J	0.44 J	0.45 J	0.46 J	0.30 J	1.7	1.2	0.87 J	1.0
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.72 J	0.62 J	2.0 U	2.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**
Sample ID:		**GW-38443-120308-DD-153**	**GW-38443-120308-DD-154**	**GW-38443-120308-DD-155**	**GW-38443-120308-DD-156**	**GW-38443-120308-DD-157**	**GW-38443-120308-DD-158**	**GW-38443-011109-KMV-235**	**GW-38443-011109-KMV-236**	**GW-38443-120508-DD-164**	**GW-38443-120508-DD-165**
Sample Date:		**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**1/11/2009**	**1/11/2009**	**12/5/2008**	**12/5/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
2,4,5-Trichlorophenol	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
2,4,6-Trichlorophenol	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
2,4-Dichlorophenol	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
2,4-Dimethylphenol	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
2,4-Dinitrophenol	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
2,4-Dinitrotoluene	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
2,6-Dinitrotoluene	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
2-Chloronaphthalene	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
2-Chlorophenol	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
2-Methylnaphthalene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
2-Methylphenol	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
2-Nitroaniline	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
2-Nitrophenol	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
3-Nitroaniline	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
4-Bromophenyl phenyl ether	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
4-Chloro-3-methylphenol	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
4-Chloroaniline	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
4-Chlorophenyl phenyl ether	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
4-Methylphenol	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
4-Nitroaniline	µg/L	2.0 U	-	-	-	-	2.0 U	-	2.0 U	-	-
4-Nitrophenol	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
Acenaphthene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Acenaphthylene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Acetophenone	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Anthracene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Atrazine	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Benzaldehyde	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Benzo(a)anthracene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Benzo(a)pyrene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Benzo(b)fluoranthene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Benzo(g,h,i)perylene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Benzo(k)fluoranthene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
bis(2-Chloroethoxy)methane	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
bis(2-Chloroethyl)ether	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	1.1 J	-	-	-	-	2.0 U	-	**7.9[ab]**	-	-
Butyl benzylphthalate (BBP)	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Caprolactam	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 UJ	-	-
Carbazole	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Chrysene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Dibenz(a,h)anthracene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Dibenzofuran	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Diethyl phthalate	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Dimethyl phthalate	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Di-n-butylphthalate (DBP)	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Fluoranthene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Fluorene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Hexachlorobenzene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Hexachlorobutadiene	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**
Sample ID:		**GW-38443-120308-DD-153**	**GW-38443-120308-DD-154**	**GW-38443-120308-DD-155**	**GW-38443-120308-DD-156**	**GW-38443-120308-DD-157**	**GW-38443-120308-DD-158**	**GW-38443-011109-KMV-235**	**GW-38443-011109-KMV-236**	**GW-38443-120508-DD-164**	**GW-38443-120508-DD-165**
Sample Date:		**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**1/11/2009**	**1/11/2009**	**12/5/2008**	**12/5/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	10 U	-	-	-	-	10 U	-	10 U	-	-
Hexachloroethane	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Isophorone	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Naphthalene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Nitrobenzene	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
N-Nitrosodi-n-propylamine	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
N-Nitrosodiphenylamine	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Pentachlorophenol	µg/L	5.0 U	-	-	-	-	5.0 U	-	5.0 U	-	-
Phenanthrene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Phenol	µg/L	1.0 U	-	-	-	-	1.0 U	-	1.0 U	-	-
Pyrene	µg/L	0.20 U	-	-	-	-	0.20 U	-	0.20 U	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**20.3[ab]**	**17.1[ab]**	**16.5[ab]**	**13.1[ab]**	**17.4[ab]**	**12.5[ab]**	**86.8[ab]**	**23.5[ab]**	**36.4[ab]**	**34.3[ab]**
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	**19.3[ab]**	14.1	12.3	8.3	13.2	6.6	**86.6[ab]**	**22.4[ab]**	**52.9[ab]**	**49.8[ab]**
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**
Sample ID:		**GW-38443-120308-DD-153**	**GW-38443-120308-DD-154**	**GW-38443-120308-DD-155**	**GW-38443-120308-DD-156**	**GW-38443-120308-DD-157**	**GW-38443-120308-DD-158**	**GW-38443-011109-KMV-235**	**GW-38443-011109-KMV-236**	**GW-38443-120508-DD-164**	**GW-38443-120508-DD-165**
Sample Date:		**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**1/11/2009**	**1/11/2009**	**12/5/2008**	**12/5/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**
Sample ID:		**GW-38443-120308-DD-153**	**GW-38443-120308-DD-154**	**GW-38443-120308-DD-155**	**GW-38443-120308-DD-156**	**GW-38443-120308-DD-157**	**GW-38443-120308-DD-158**	**GW-38443-011109-KMV-235**	**GW-38443-011109-KMV-236**	**GW-38443-120508-DD-164**	**GW-38443-120508-DD-165**
Sample Date:		**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**1/11/2009**	**1/11/2009**	**12/5/2008**	**12/5/2008**
Sample Depth:		**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-25
Sample ID:		GW-38443-120508-DD-166	GW-38443-120508-DD-167	GW-38443-120508-DD-168	GW-38443-120508-DD-169	GW-38443-120508-DD-170	GW-38443-120508-DD-171	GW-38443-120608-DD-172	GW-38443-120608-DD-173	GW-38443-120608-DD-174	GW-38443-120708-KMV-064
Sample Date:		12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/6/2008	12/6/2008	12/6/2008	12/7/2008
Sample Depth:		57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	55-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.54 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.4 J
Benzene	µg/L	0.23 J	0.25 J	0.25 J	0.24 J	0.28 J	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**7.2[b]**
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Cyclohexane	µg/L	0.16 J	0.18 J	0.18 J	0.17 J	0.19 J	0.19 J	0.17 J	0.22 J	0.21 J	0.33 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	µg/L	0.87 J	1.3	0.70 J	0.85 J	0.76 J	1.0	0.46 J	0.58 J	0.64 J	0.54 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**0.44 J[b]**	**0.72 J[b]**	**0.77 J[b]**	**0.89 J[b]**	**0.48 J[b]**	**0.47 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-25**
Sample ID:		**GW-38443-120508-DD-166**	**GW-38443-120508-DD-167**	**GW-38443-120508-DD-168**	**GW-38443-120508-DD-169**	**GW-38443-120508-DD-170**	**GW-38443-120508-DD-171**	**GW-38443-120608-DD-172**	**GW-38443-120608-DD-173**	**GW-38443-120608-DD-174**	**GW-38443-120708-KMV-064**
Sample Date:		**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/6/2008**	**12/6/2008**	**12/6/2008**	**12/7/2008**
Sample Depth:		**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**92-97 ft BGS Duplicate**	**55-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
2,4,5-Trichlorophenol	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
2,4,6-Trichlorophenol	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
2,4-Dichlorophenol	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
2,4-Dimethylphenol	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
2,4-Dinitrophenol	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
2,4-Dinitrotoluene	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
2,6-Dinitrotoluene	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
2-Chloronaphthalene	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
2-Chlorophenol	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
2-Methylnaphthalene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
2-Methylphenol	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
2-Nitroaniline	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
2-Nitrophenol	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
3-Nitroaniline	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
4,6-Dinitro-2-methylphenol	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
4-Bromophenyl phenyl ether	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
4-Chloro-3-methylphenol	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
4-Chloroaniline	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
4-Chlorophenyl phenyl ether	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
4-Methylphenol	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
4-Nitroaniline	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
4-Nitrophenol	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
Acenaphthene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Acenaphthylene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Acetophenone	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Anthracene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Atrazine	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Benzaldehyde	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Benzo(a)anthracene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Benzo(a)pyrene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Benzo(b)fluoranthene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Benzo(g,h,i)perylene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Benzo(k)fluoranthene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Biphenyl (1,1-Biphenyl)	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
bis(2-Chloroethoxy)methane	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
bis(2-Chloroethyl)ether	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	2.0 U	-	-	-	-	-	2.0 U	2.0 U	-
Butyl benzylphthalate (BBP)	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Caprolactam	µg/L	-	5.0 U	-	-	-	-	-	5.0 UJ	5.0 UJ	-
Carbazole	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Chrysene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Dibenz(a,h)anthracene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Dibenzofuran	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Diethyl phthalate	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Dimethyl phthalate	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Di-n-butylphthalate (DBP)	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Di-n-octyl phthalate (DnOP)	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Fluoranthene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Fluorene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Hexachlorobenzene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Hexachlorobutadiene	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-

Table 4

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Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-25**
Sample ID:		**GW-38443-120508-DD-166**	**GW-38443-120508-DD-167**	**GW-38443-120508-DD-168**	**GW-38443-120508-DD-169**	**GW-38443-120508-DD-170**	**GW-38443-120508-DD-171**	**GW-38443-120608-DD-172**	**GW-38443-120608-DD-173**	**GW-38443-120608-DD-174**	**GW-38443-120708-KMV-064**
Sample Date:		**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/6/2008**	**12/6/2008**	**12/6/2008**	**12/7/2008**
Sample Depth:		**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**92-97 ft BGS Duplicate**	**55-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	10 U	-	-	-	-	-	10 U	10 U	-
Hexachloroethane	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Indeno(1,2,3-cd)pyrene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Isophorone	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Naphthalene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Nitrobenzene	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
N-Nitrosodi-n-propylamine	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
N-Nitrosodiphenylamine	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Pentachlorophenol	µg/L	-	5.0 U	-	-	-	-	-	5.0 U	5.0 U	-
Phenanthrene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Phenol	µg/L	-	1.0 U	-	-	-	-	-	1.0 U	1.0 U	-
Pyrene	µg/L	-	0.20 U	-	-	-	-	-	0.20 U	0.20 U	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**71.0[ab]**	**39.4[ab]**	**58.2[ab]**	**26.6[ab]**	**63.6[ab]**	**25.5[ab]**	**47.9[ab]**	**26.9[ab]**	**31.6[ab]**	**28.0[ab]**
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	**4.3 J[b]**	-	-	**0.85 J[b]**
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	**186[ab]**	**75.0[ab]**	**82.1[ab]**	**35.3[ab]**	**107[ab]**	**32.6[ab]**	**91.5[ab]**	**54.2[ab]**	**58.8[ab]**	**38.9[ab]**
Lead (dissolved)	µg/L	-	-	-	-	-	-	0.58 J	-	-	0.74 J
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-23	VAS-25
Sample ID:		GW-38443-120508-DD-166	GW-38443-120508-DD-167	GW-38443-120508-DD-168	GW-38443-120508-DD-169	GW-38443-120508-DD-170	GW-38443-120508-DD-171	GW-38443-120608-DD-172	GW-38443-120608-DD-173	GW-38443-120608-DD-174	GW-38443-120708-KMV-064
Sample Date:		12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/5/2008	12/6/2008	12/6/2008	12/6/2008	12/7/2008
Sample Depth:		57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	92-97 ft BGS Duplicate	55-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-25**
Sample ID:		**GW-38443-120508-DD-166**	**GW-38443-120508-DD-167**	**GW-38443-120508-DD-168**	**GW-38443-120508-DD-169**	**GW-38443-120508-DD-170**	**GW-38443-120508-DD-171**	**GW-38443-120608-DD-172**	**GW-38443-120608-DD-173**	**GW-38443-120608-DD-174**	**GW-38443-120708-KMV-064**
Sample Date:		**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/6/2008**	**12/6/2008**	**12/6/2008**	**12/7/2008**
Sample Depth:		**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**92-97 ft BGS Duplicate**	**55-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-120708-KMV-065**	**GW-38443-120708-KMV-066**	**GW-38443-120708-KMV-067**	**GW-38443-120708-KMV-068**	**GW-38443-120708-KMV-069**	**GW-38443-120708-KMV-070**	**GW-38443-120808-KMV-071**	**GW-38443-120808-KMV-072**	**GW-38443-121817-KVM-008**	**GW-38443-121817-KVM-009**
Sample Date:		**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/8/2008**	**12/8/2008**	**12/18/2017**	**12/18/2017**
Sample Depth:		**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.32 U	0.32 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	0.34 J	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0084 U	0.0084 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0071 U	0.0071 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	0.57 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.0 U	1.0 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.71 U	0.71 U
Acetone	µg/L	1.3 J	1.3 J	10 UJ	10 U	10 U	10 U	10 U	10 U	1.8 U	1.8 U
Benzene	µg/L	1.0 U	1.0 U	**0.53 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42 UJ	0.42 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.55 J
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 U	0.35 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 UJ	0.41 UJ
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	**27[b]**	**27[b]**	1.8	0.89 J	0.42 J	0.37 J	0.26 J	0.26 J	0.59 J	0.46 J
cis-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.26 U	0.26 U
Cyclohexane	µg/L	0.28 J	0.28 J	0.21 J	0.28 J	1.0 U	0.18 J	0.18 J	0.16 J	0.44 U	0.83 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.50 U	0.50 U
Ethylbenzene	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	0.24 U	0.24 U
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.4 U	1.4 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.27 U	0.27 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	0.28 U	0.28 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.30 U	0.30 U
Toluene	µg/L	0.42 J	0.45 J	0.38 J	0.42 J	0.23 J	0.30 J	0.29 J	0.28 J	0.28 J	0.23 U
trans-1,2-Dichloroethene	µg/L	4.0	4.2	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.31 U	0.31 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 U	0.41 U
Vinyl chloride	µg/L	1.0 U	1.0 U	**0.22 J[b]**	**0.22 J[b]**	**0.30 J[b]**	**0.24 J[b]**	**6.5[ab]**	**6.8[ab]**	0.45 U	0.45 U
Xylenes (total)	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.24 U	0.24 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-120708-KMV-065**	**GW-38443-120708-KMV-066**	**GW-38443-120708-KMV-067**	**GW-38443-120708-KMV-068**	**GW-38443-120708-KMV-069**	**GW-38443-120708-KMV-070**	**GW-38443-120808-KMV-071**	**GW-38443-120808-KMV-072**	**GW-38443-121817-KVM-008**	**GW-38443-121817-KVM-009**
Sample Date:		**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/8/2008**	**12/8/2008**	**12/18/2017**	**12/18/2017**
Sample Depth:		**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	2.0 U	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	1.0 J	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	5.0 UJ	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	1.0 U	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-25	VAS-25	VAS-25	VAS-25	VAS-25	VAS-25	VAS-25	VAS-25	VAS-35	VAS-35
Sample ID:		GW-38443-120708-KMV-065	GW-38443-120708-KMV-066	GW-38443-120708-KMV-067	GW-38443-120708-KMV-068	GW-38443-120708-KMV-069	GW-38443-120708-KMV-070	GW-38443-120808-KMV-071	GW-38443-120808-KMV-072	GW-38443-121817-KVM-008	GW-38443-121817-KVM-009
Sample Date:		12/7/2008	12/7/2008	12/7/2008	12/7/2008	12/7/2008	12/7/2008	12/8/2008	12/8/2008	12/18/2017	12/18/2017
Sample Depth:		60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	35-40 ft BGS	40-45 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	10 U	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	5.0 U	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Phenol	µg/L	-	-	-	-	-	-	-	1.0 U	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	0.20 U	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	5000[b]	190
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	1300	34 U
Antimony	µg/L	-	-	-	-	-	-	-	-	0.57 U	0.57 U
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	0.57 U	0.57 U
Arsenic	µg/L	32.1[ab]	32.4[ab]	127[ab]	33.1[ab]	72.2[ab]	39.1[ab]	30.8[ab]	24.4[ab]	11[ab]	2.1 J[b]
Arsenic (dissolved)	µg/L	-	-	-	-	-	6.4[b]	-	-	7.4[b]	1.2 J[b]
Barium	µg/L	-	-	-	-	-	-	-	-	640[b]	650[b]
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	610[b]	670[b]
Beryllium	µg/L	-	-	-	-	-	-	-	-	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	0.31 U	0.31 U
Cadmium	µg/L	-	-	-	-	-	-	-	-	0.31 J	0.21 U
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	0.21 U	0.21 U
Calcium	µg/L	-	-	-	-	-	-	-	-	210000	140000
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	130000	120000
Chromium	µg/L	-	-	-	-	-	-	-	-	15	2.9
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	2.4	0.98 U
Cobalt	µg/L	-	-	-	-	-	-	-	-	3.6[b]	0.26 J
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	1.0[b]	0.19 U
Copper	µg/L	-	-	-	-	-	-	-	-	14	2.6
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	3.4	1.7 U
Iron	µg/L	-	-	-	-	-	-	-	-	16000[b]	4100[b]
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	7000[b]	3300[b]
Lead	µg/L	45.3[ab]	43.0[ab]	245[ab]	49.4[ab]	171[ab]	78.4[ab]	67.6[ab]	40.7[ab]	14	0.90 J
Lead (dissolved)	µg/L	-	-	-	-	-	6.0	-	-	2.4	0.45 U
Magnesium	µg/L	-	-	-	-	-	-	-	-	70000	43000
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	43000	38000
Manganese	µg/L	-	-	-	-	-	-	-	-	360[b]	93[b]
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	140[b]	49[b]
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	0.13 U	0.13 U
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	0.13 U	0.13 U
Nickel	µg/L	-	-	-	-	-	-	-	-	8.8	1.5 U
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	2.8	1.5 U
Potassium	µg/L	-	-	-	-	-	-	-	-	8400	6300
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	7500	6300
Selenium	µg/L	-	-	-	-	-	-	-	-	1.7 J	0.89 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-120708-KMV-065**	**GW-38443-120708-KMV-066**	**GW-38443-120708-KMV-067**	**GW-38443-120708-KMV-068**	**GW-38443-120708-KMV-069**	**GW-38443-120708-KMV-070**	**GW-38443-120808-KMV-071**	**GW-38443-120808-KMV-072**	**GW-38443-121817-KVM-008**	**GW-38443-121817-KVM-009**
Sample Date:		**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/8/2008**	**12/8/2008**	**12/18/2017**	**12/18/2017**
Sample Depth:		**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	0.89 U	0.89 U
Silver	µg/L	-	-	-	-	-	-	-	-	0.053 U	0.053 U
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	0.053 U	0.053 U
Sodium	µg/L	-	-	-	-	-	-	-	-	51000	46000
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	50000	47000
Thallium	µg/L	-	-	-	-	-	-	-	-	0.20 U	0.20 U
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	0.20 U	0.20 U
Vanadium	µg/L	-	-	-	-	-	-	-	-	10[b]	0.82 U
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	2.7 J	0.82 U
Zinc	µg/L	-	-	-	-	-	-	-	-	220	190
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	150	140
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-120708-KMV-065**	**GW-38443-120708-KMV-066**	**GW-38443-120708-KMV-067**	**GW-38443-120708-KMV-068**	**GW-38443-120708-KMV-069**	**GW-38443-120708-KMV-070**	**GW-38443-120808-KMV-071**	**GW-38443-120808-KMV-072**	**GW-38443-121817-KVM-008**	**GW-38443-121817-KVM-009**
Sample Date:		**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/8/2008**	**12/8/2008**	**12/18/2017**	**12/18/2017**
Sample Depth:		**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	91000	84000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	14 U	14 U
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	14 U	14 U
Sulfate	µg/L	-	-	-	-	-	-	-	-	45000	42000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-121917-KVM-010**	**GW-38443-121917-KVM-011**	**GW-38443-121917-KVM-012**	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**	**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/21/2017**	**12/21/2017**	**1/3/2018**
Sample Depth:		**45-50 ft BGS**	**45-50 ft BGS Duplicate**	**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.92 U	0.92 U	120 U	0.46 U	2.3 U	4.6 U	1.2 U	2.3 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	1.3 U	1.3 U	160 U	0.64 U	3.2 U	6.4 U	1.6 U	3.2 U	0.32 U	0.32 UJ
1,1,2-Trichloroethane	µg/L	1.4 U	1.4 U	170 U	0.68 U	3.4 U	6.8 U	1.7 U	3.4 U	0.34 U	0.34 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	130 U	0.50 U	2.5 U	5.0 U	1.3 U	2.5 U	0.25 U	1.0
1,1-Dichloroethene	µg/L	1.1 U	1.1 U	140 U	0.54 U	2.7 U	5.4 U	1.4 U	2.7 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	1.1 U	1.1 U	140 U	0.54 U	2.7 U	5.4 U	1.4 U	2.7 U	0.27 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0084 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	130 U	0.52 U	2.6 U	5.2 U	1.3 U	2.6 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	1.2 U	1.2 U	150 U	0.60 U	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.30 U
1,2-Dichloropropane	µg/L	1.2 U	1.2 U	150 U	0.60 U	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.30 U
1,3-Dichlorobenzene	µg/L	1.3 U	1.3 U	160 U	0.64 U	3.2 U	6.4 U	1.6 U	3.2 U	0.32 U	0.32 U
1,4-Dichlorobenzene	µg/L	0.92 U	0.92 U	120 U	0.46 U	2.3 U	4.6 U	1.2 U	2.3 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.4 J	4.1 U	510 U	4.6 J	10 U	20 U	5.1 U	10 UJ	1.0 UJ	1.0 U
2-Hexanone	µg/L	4.9 U	4.9 U	620 U	2.5 U	12 U	25 U	6.2 U	12 UJ	1.2 UJ	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2.8 U	2.8 U	360 U	1.4 U	7.1 U	14 U	3.6 U	7.1 U	0.71 U	0.71 U
Acetone	µg/L	7.0 U	7.0 U	880 U	15 J	18 U	35 U	8.8 U	18 U	2.1 J	1.8 U
Benzene	µg/L	1.1 U	1.1 U	140 U	**3.3[b]**	**36[ab]**	**14 J[ab]**	**35[ab]**	**26[ab]**	**1.3[b]**	0.41 J
Bromodichloromethane	µg/L	1.2 U	1.2 U	150 U	0.60 U	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.30 U
Bromoform	µg/L	1.7 UJ	1.7 UJ	220 UJ	0.86 UJ	4.3 U	8.6 U	2.2 U	4.3 U	0.43 U	0.43 U
Bromomethane (Methyl bromide)	µg/L	1.7 U	1.7 U	210 U	0.84 U	4.2 UJ	8.4 UJ	2.1 UJ	4.2 U	0.42 U	0.42 U
Carbon disulfide	µg/L	1.4 U	1.4 U	170 U	0.68 U	3.4 U	6.8 U	1.7 U	3.4 U	0.34 U	0.34 U
Carbon tetrachloride	µg/L	1.4 U	1.4 U	180 U	0.70 U	3.5 U	7.0 U	1.8 U	3.5 UJ	0.35 UJ	0.35 UJ
Chlorobenzene	µg/L	1.3 U	1.3 U	160 U	0.64 U	3.2 U	6.4 U	1.6 U	3.2 U	0.32 U	0.32 U
Chloroethane	µg/L	1.6 U	1.6 U	210 U	0.82 U	4.1 UJ	8.2 UJ	2.1 UJ	4.1 UJ	0.41 UJ	0.41 U
Chloroform (Trichloromethane)	µg/L	1.2 U	1.2 U	160 U	0.62 U	3.1 U	6.2 U	1.6 U	3.1 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	1.7 U	1.7 U	220 U	0.86 U	4.3 U	8.6 U	2.2 U	4.3 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	1.2 U	1.2 U	150 U	**12[b]**	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.63 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	130 U	0.52 U	2.6 U	5.2 U	1.3 U	2.6 U	0.26 U	0.26 U
Cyclohexane	µg/L	49	46	890	24	110	280	65	280 J	9.2 J	0.44 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	130 U	0.50 U	2.5 U	5.0 U	1.3 U	2.5 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	µg/L	2.0 U	2.0 U	250 U	1.0 U	5.0 U	10 U	2.5 U	5.0 UJ	0.50 UJ	0.50 U
Ethylbenzene	µg/L	1.0 U	1.0 U	**1600[ab]**	**21[b]**	2.6 U	5.2 U	1.3 U	2.6 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	5.9	5.8	110 U	3.3	2.1 U	4.2 U	1.1 U	2.1 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	5.0 J	4.3 J	4800	75	22	110	15	12 J	0.55 J	0.24 U
Methyl acetate	µg/L	5.7 U	5.7 U	720 U	2.9 U	14 U	29 U	7.2 U	14 UJ	1.4 UJ	1.4 U
Methyl cyclohexane	µg/L	13	12	230 U	14	4.5 U	9.0 U	2.3 U	4.5 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	1.1 U	1.1 U	140 U	0.54 U	2.7 U	5.4 U	1.4 U	2.7 U	0.27 U	0.27 U
Methylene chloride	µg/L	2.1 U	2.1 U	270 U	1.1 U	5.3 U	11 U	2.7 U	5.3 U	0.53 U	0.53 U
o-Xylene	µg/L	1.1 U	1.1 U	140 U	1.1 J	2.8 U	5.6 U	1.7 J	2.8 U	0.28 U	0.28 U
Styrene	µg/L	0.92 U	0.92 U	120 U	0.46 U	2.3 U	4.6 U	1.2 U	2.3 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	1.2 U	1.2 U	150 U	0.60 U	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.30 U
Toluene	µg/L	0.92 U	0.92 U	120 U	0.46 U	10	14 J	16	20	0.87 J	0.23 U
trans-1,2-Dichloroethene	µg/L	1.2 U	1.2 U	150 U	0.58 U	2.9 U	5.8 U	1.5 U	2.9 U	0.29 U	0.29 U
trans-1,3-Dichloropropene	µg/L	1.2 U	1.2 U	160 U	0.62 U	3.1 U	6.2 U	1.6 U	3.1 U	0.31 U	0.31 U
Trichloroethene	µg/L	1.3 U	1.3 U	170 U	0.66 U	3.3 U	6.6 U	1.7 U	3.3 U	0.33 U	0.33 U
Trichlorofluoromethane (CFC-11)	µg/L	2.0 U	2.0 U	250 U	1.0 U	5.0 U	10 U	2.5 U	5.0 UJ	0.50 UJ	0.50 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.6 U	1.6 U	210 U	0.82 U	4.1 U	8.2 U	2.1 U	4.1 U	0.41 U	0.41 U
Vinyl chloride	µg/L	1.8 U	1.8 U	230 U	**6.7[ab]**	4.5 U	9.0 U	2.3 U	4.5 U	0.45 U	**2.4[ab]**
Xylenes (total)	µg/L	5.0 J	4.3 J	**4800[b]**	**76[b]**	**22[b]**	**110[b]**	17	12 J	0.55 J	0.24 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-121917-KVM-010**	**GW-38443-121917-KVM-011**	**GW-38443-121917-KVM-012**	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**	**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/21/2017**	**12/21/2017**	**1/3/2018**
Sample Depth:		**45-50 ft BGS**	**45-50 ft BGS Duplicate**	**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	0.38 U	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	0.29 U	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	0.23 U	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	0.18 U	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	0.93 J	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	0.31 U	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	0.24 U	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	0.77 U	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	0.096 U	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	0.28 U	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	**110[b]**	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	0.16 U	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	0.20 U	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	0.27 U	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	0.77 U	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	0.36 U	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	0.27 U	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	2.3 U	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	0.21 U	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	0.20 U	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	0.20 U	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	0.29 U	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	0.21 U	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	0.28 U	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	0.33	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	0.13 J	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	0.33 U	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	0.085 U	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	0.33 U	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	0.37 U	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	0.028 U	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	0.049 U	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	0.038 U	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	0.045 U	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	0.043 U	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	**0.46 J[b]**	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	0.31 U	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	0.096 U	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	1.6 U	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	0.25 U	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	0.19 U	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	0.27 U	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	0.048 U	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	0.043 U	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	0.019 U	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	0.67 U	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	0.28 U	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	1.6 U	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	0.22 U	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	0.043 U	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	0.20	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	0.082 U	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	0.26 U	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-121917-KVM-010**	**GW-38443-121917-KVM-011**	**GW-38443-121917-KVM-012**	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**	**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/21/2017**	**12/21/2017**	**1/3/2018**
Sample Depth:		**45-50 ft BGS**	**45-50 ft BGS Duplicate**	**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	0.23 U	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	0.18 U	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	0.042 U	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	0.26 U	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	**250[b]**	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	0.038 U	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	0.23 U	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	0.30 U	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	0.26 U	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	0.15 J	-	-	-	-	-	-	-
Phenol	µg/L	-	-	0.58 U	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	0.040 U	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	60	38 J	34 U	58	41 J	110	34 U	76	150	34 U
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U	34 U
Antimony	µg/L	**1.7 J[b]**	0.62 J	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	**1.8 J[b]**	0.57 U	0.57 U
Antimony (dissolved)	µg/L	**1.1 J[b]**	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.74 J	0.57 U	0.57 U
Arsenic	µg/L	**1.1 J[b]**	**1.1 J[b]**	**3.2 J[b]**	**1.9 J[b]**	**4.7 J[b]**	**4.8 J[b]**	**7.9[b]**	**6.9[b]**	**1.4 J[b]**	**1.5 J[b]**
Arsenic (dissolved)	µg/L	**0.89 J[b]**	**0.76 J[b]**	**3.1 J[b]**	**2.3 J[b]**	**4.5 J[b]**	**3.9 J[b]**	**7.8[b]**	**7.3[b]**	**0.78 J[b]**	**1.4 J[b]**
Barium	µg/L	**730[b]**	**710[b]**	**410[b]**	100	**850[b]**	**800[b]**	**840[b]**	**1200[b]**	**470[b]**	330
Barium (dissolved)	µg/L	**720[b]**	**730[b]**	**400[b]**	100	**850[b]**	**790[b]**	**840[b]**	**1200[b]**	**450[b]**	330
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.57 J	0.31 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.32 J	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 J
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	120000	120000	110000	100000	92000	98000	82000	81000	76000	65000
Calcium (dissolved)	µg/L	120000	120000	110000	110000	88000	94000	82000	83000	71000	63000
Chromium	µg/L	1.3 J	0.98 U	0.98 U	0.98 U	1.1 J	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	0.29 J	0.19 U	0.19 J	0.20 J	0.39 J	0.19 U	0.24 J	0.28 J	0.30 J	0.19 U
Cobalt (dissolved)	µg/L	0.20 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.23 J	0.19 U	0.19 U	0.19 U
Copper	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	3.1
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.5
Iron	µg/L	**3000[b]**	**2900[b]**	**2000[b]**	**1800[b]**	**11000[b]**	**8400[b]**	**7800[b]**	**8700[b]**	**5200[b]**	**4700[b]**
Iron (dissolved)	µg/L	**2400[b]**	**2400[b]**	**1900[b]**	**1500[b]**	**5600[b]**	**7300[b]**	**7700[b]**	**8400[b]**	**4300[b]**	**2800[b]**
Lead	µg/L	0.59 J	0.49 J	0.63 J	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.48 J	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Magnesium	µg/L	38000	37000	34000	33000	36000	38000	37000	36000	34000	31000
Magnesium (dissolved)	µg/L	39000	38000	34000	33000	36000	37000	37000	37000	32000	29000
Manganese	µg/L	**57[b]**	**52[b]**	**57[b]**	**140[b]**	**88[b]**	**81[b]**	**59[b]**	**59[b]**	**87[b]**	**75[b]**
Manganese (dissolved)	µg/L	**44[b]**	**44[b]**	**56[b]**	**140[b]**	**63[b]**	**70[b]**	**57[b]**	**56[b]**	**73[b]**	**63[b]**
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	2.4	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U
Potassium	µg/L	5900	5900	5500	5300	4500	5100	5500	5300	5400	4900
Potassium (dissolved)	µg/L	6000	5900	5500	5400	4500	5000	5600	5400	5100	4700
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	1.1 J	0.89 U	0.89 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-121917-KVM-010**	**GW-38443-121917-KVM-011**	**GW-38443-121917-KVM-012**	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**	**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/21/2017**	**12/21/2017**	**1/3/2018**
Sample Depth:		**45-50 ft BGS**	**45-50 ft BGS Duplicate**	**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	44000	43000	38000	39000	31000	32000	29000	29000	38000	45000
Sodium (dissolved)	µg/L	45000	44000	38000	40000	31000	31000	29000	30000	36000	43000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
Zinc	µg/L	300	270	270	310	**1100[b]**	280	320	310	320	250
Zinc (dissolved)	µg/L	270	250	250	300	**960[b]**	270	320	320	300	200
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	0.057 U	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	0.10 U	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	0.080 U	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	0.069 U	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	0.057 U	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	0.034 U	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	0.046 U	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	0.017 U	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	0.012 U	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	0.016 U	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	0.012 U	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	0.017 U	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	0.028 U	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	0.17	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	0.014 U	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	0.014 U	-	-	-	-	-	-	-
Endrin	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	0.017 UJ	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	0.015 U	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	0.014 U	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	0.013 U	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	0.19 U	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-121917-KVM-010**	**GW-38443-121917-KVM-011**	**GW-38443-121917-KVM-012**	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**	**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**
Sample Date:		**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/21/2017**	**12/21/2017**	**1/3/2018**
Sample Depth:		**45-50 ft BGS**	**45-50 ft BGS Duplicate**	**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	72000	72000	68000	74000	73000	75000	69000	69000	67000	63000
Cyanide (total)	µg/L	-	-	6 U	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	14 U	14 U	14 U	**4600**[b]	14 U	14 U	14 U	14 U	14 U	14 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	23000	23000	4300	62000	4200	4500	5100	5300	5200	5800
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-010318-KVM-020**	**GW-38443-010318-KVM-021**	**GW-38443-010418-KVM-022**	**GW-38443-100818-JC-202**	**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**	**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**
Sample Date:		**1/3/2018**	**1/3/2018**	**1/4/2018**	**10/8/2018**	**10/8/2018**	**10/8/2018**	**10/9/2018**	**10/9/2018**	**10/10/2018**	**10/10/2018**
Sample Depth:		**130-140 ft BGS**	**130-140 ft BGS Duplicate**	**140-150 ft BGS**	**60-70 ft BGS**	**60-70 ft BGS Duplicate**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	2.9 U	2.9 U	2.6 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	4.0 UJ	4.0 UJ	3.6 U	0.13 U	0.13 U	0.13 U	0.13 U	0.26 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	4.3 U	4.3 U	3.8 U	0.090 U	0.090 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	3.1 U	3.1 U	2.8 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	3.4 U	3.4 U	3.0 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	3.4 U	3.4 U	3.0 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.52 U	0.26 UJ	0.26 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	3.3 U	3.3 U	2.9 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	3.8 U	3.8 U	3.3 U	0.21 UJ	0.21 UJ	0.21 UJ	0.21 U	**0.82 J[b]**	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	3.8 U	3.8 U	3.3 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.15 UJ	0.15 UJ
1,3-Dichlorobenzene	µg/L	4.0 U	4.0 U	3.6 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	2.9 U	2.9 U	2.6 U	0.16 U	0.16 U	0.16 U	0.16 U	0.32 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	13 U	13 U	11 U	1.2 U	1.2 U	1.2 U	1.2 U	2.3 U	1.2 U	1.2 U
2-Hexanone	µg/L	15 U	15 U	14 U	0.54 U	0.54 U	0.54 U	0.54 U	1.1 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	8.9 U	8.9 U	7.9 U	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.84 U	0.42 U	0.42 U
Acetone	µg/L	22 U	22 U	20 U	5.4 U	5.4 U	5.4 U	5.4 U	11 U	5.4 U	6.5 J
Benzene	µg/L	**3.6 J[b]**	3.5 U	3.1 U	0.13 U	0.13 U	0.33 J	**3.4[b]**	**2.3[b]**	0.13 U	0.13 U
Bromodichloromethane	µg/L	3.8 U	3.8 U	3.3 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	**1.9[b]**
Bromoform	µg/L	5.4 U	5.4 U	4.8 U	0.76 U	0.76 U	0.76 U	0.76 UJ	1.5 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	5.3 U	5.3 U	4.7 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	0.42 U	0.42 U
Carbon disulfide	µg/L	4.3 U	4.3 U	3.8 U	0.28 U	0.28 U	0.28 U	0.28 U	0.56 U	0.28 U	0.28 U
Carbon tetrachloride	µg/L	4.4 UJ	4.4 UJ	3.9 U	0.26 U	0.26 U	0.26 U	0.26 U	0.52 U	0.26 U	0.26 U
Chlorobenzene	µg/L	4.0 U	4.0 U	3.6 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.14 U	0.14 U
Chloroethane	µg/L	5.1 U	5.1 U	4.6 U	0.83 U	0.83 U	0.83 U	0.83 U	1.7 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	3.9 U	3.9 U	3.4 U	**0.58 J[b]**	**0.74 J[b]**	**0.27 J[b]**	**0.51 J[b]**	**0.81 J[b]**	**1.4[b]**	**4.4[b]**
Chloromethane (Methyl chloride)	µg/L	5.4 U	5.4 U	4.8 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	**72[ab]**	**66[b]**	**6.6 J[b]**	**5.5[b]**	**5.8[b]**	**5.9[b]**	**8.8[b]**	**54[b]**	2.0	0.16 U
cis-1,3-Dichloropropene	µg/L	3.3 U	3.3 U	2.9 U	0.61 U	0.61 U	0.61 U	0.61 U	1.2 U	0.61 U	0.61 U
Cyclohexane	µg/L	5.5 U	5.5 U	4.9 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	3.1 U	3.1 U	2.8 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	**0.96 J[b]**
Dichlorodifluoromethane (CFC-12)	µg/L	6.3 U	6.3 U	5.6 U	0.35 U	0.35 U	0.35 U	0.35 U	0.70 U	0.35 U	0.35 U
Ethylbenzene	µg/L	3.3 U	3.3 U	2.9 U	0.11 U	0.11 U	0.11 U	0.11 U	0.22 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	2.6 U	2.6 U	2.3 U	0.090 U	0.090 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	3.0 U	3.0 U	2.7 U	0.080 U	0.080 U	0.080 U	0.080 U	0.16 U	0.080 U	0.080 U
Methyl acetate	µg/L	18 U	18 U	16 U	1.7 U	1.7 U	1.7 U	1.7 U	3.4 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	5.6 U	5.6 U	5.0 U	0.33 U	0.33 U	0.33 U	0.33 U	0.66 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	3.4 U	3.4 U	3.0 U	0.070 U	0.070 U	0.070 U	0.070 U	0.14 U	0.070 U	0.070 U
Methylene chloride	µg/L	6.6 U	6.6 U	5.9 U	2.6 U	2.6 U	2.6 U	2.6 U	5.2 U	2.6 U	2.6 U
o-Xylene	µg/L	3.5 U	3.5 U	3.1 U	0.090 U	0.090 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U
Styrene	µg/L	2.9 U	2.9 U	2.6 U	0.10 U	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	3.8 U	3.8 U	3.3 U	0.15 U	0.15 U	0.15 U	0.23 U	0.30 U	0.15 U	0.15 U
Toluene	µg/L	2.9 U	2.9 U	2.6 U	0.92 J	0.97 J	0.66 J	0.25 U	0.28 U	0.39 J	0.45 J
trans-1,2-Dichloroethene	µg/L	3.6 U	3.6 U	3.2 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	3.9 U	3.9 U	3.4 U	0.67 U	0.67 U	0.67 U	0.67 U	1.3 U	0.67 U	0.67 U
Trichloroethene	µg/L	4.1 U	4.1 U	3.7 U	**0.45 J[b]**	**0.39 J[b]**	0.10 U	0.10 U	0.20 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	6.3 U	6.3 U	5.6 U	0.45 U	0.45 U	0.45 U	0.45 U	0.90 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	5.1 U	5.1 U	4.6 U	0.41 U	0.41 U	0.41 U	0.41 U	0.82 U	0.41 U	0.41 U
Vinyl chloride	µg/L	**190[ab]**	**170[ab]**	**140[ab]**	0.20 U	0.20 U	**3.1[ab]**	**8.2[ab]**	**27[ab]**	**39[ab]**	**13[ab]**
Xylenes (total)	µg/L	3.0 U	3.0 U	2.7 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.15 U	0.15 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-35	VAS-35	VAS-35	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36
Sample ID:		GW-38443-010318-KVM-020	GW-38443-010318-KVM-021	GW-38443-010418-KVM-022	GW-38443-100818-JC-202	GW-38443-100818-JC-203	GW-38443-100818-JC-204	GW-38443-100918-JC-205	GW-38443-100918-JC-206	GW-38443-101018-JC-207	GW-38443-101018-JC-208
Sample Date:		1/3/2018	1/3/2018	1/4/2018	10/8/2018	10/8/2018	10/8/2018	10/9/2018	10/9/2018	10/10/2018	10/10/2018
Sample Depth:		130-140 ft BGS	130-140 ft BGS	140-150 ft BGS	60-70 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS
			Duplicate			Duplicate					
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-35	VAS-35	VAS-35	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36
Sample ID:		GW-38443-010318-KVM-020	GW-38443-010318-KVM-021	GW-38443-010418-KVM-022	GW-38443-100818-JC-202	GW-38443-100818-JC-203	GW-38443-100818-JC-204	GW-38443-100918-JC-205	GW-38443-100918-JC-206	GW-38443-101018-JC-207	GW-38443-101018-JC-208
Sample Date:		1/3/2018	1/3/2018	1/4/2018	10/8/2018	10/8/2018	10/8/2018	10/9/2018	10/9/2018	10/10/2018	10/10/2018
Sample Depth:		130-140 ft BGS	130-140 ft BGS Duplicate	140-150 ft BGS	60-70 ft BGS	60-70 ft BGS Duplicate	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	1100	1200	34 U	4800[b]	3800[b]	5800[b]	63000[b]	9300[b]	1900	12000[b]
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	190	150	34 U	16000[b]	55	130	1000
Antimony	µg/L	0.57 U	0.57 U	1.4 UJ	0.57 U	0.57 U	0.57 U	1.4 J[b]	1.2 J[b]	0.57 U	1.4 J[b]
Antimony (dissolved)	µg/L	0.57 U	0.57 U	5.6 J[b]	0.57 U	0.57 U	0.57 U	0.60 J	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	2.4 J[b]	2.0 J[b]	0.97 J[b]	6.0[b]	5.5[b]	6.4[b]	22[ab]	9.1[b]	1.8 J[b]	9.9[b]
Arsenic (dissolved)	µg/L	1.2 J[b]	1.5 J[b]	1.1 J[b]	2.2 J[b]	2.1 J[b]	1.1 J[b]	5.6[b]	1.8 J[b]	1.1 J[b]	1.4 J[b]
Barium	µg/L	240	240	190	110	100	110	580[b]	250	250	280
Barium (dissolved)	µg/L	250	240	190	70	67	69	190	160	230	190
Beryllium	µg/L	0.31 U	0.31 U	0.31 U	0.48 J	0.31 U	0.42 J	3.4[b]	0.55 J	0.31 U	0.66 J
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.67 J	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 J	0.285 U	0.21 U	0.21 U	1.3 U	0.34 U	0.21 U	0.285 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.34 J	0.21 U	0.21 U	0.21 U	0.30 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	93000	94000	79000	180000	160000	190000	480000	240000	120000	180000
Calcium (dissolved)	µg/L	78000	74000	81000	110000	100000	110000	160000	97000	93000	86000
Chromium	µg/L	16	14	2.6	41	34	20	110[a]	83	8.1	72
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	1.6 J	0.98 U	0.98 U	24	0.98 U	0.98 U	5.0
Cobalt	µg/L	1.2[b]	1.1[b]	0.20 J	3.7[b]	3.3[b]	4.2[b]	39[b]	7.4[b]	1.4[b]	11[b]
Cobalt (dissolved)	µg/L	0.19 U	0.19 U	0.19 U	0.47 J	0.39 J	0.19 U	7.7[b]	0.19 J	0.27 J	1.1[b]
Copper	µg/L	6.0	4.9	1.7 U	39	34	33	130[b]	37	8.0 U	40
Copper (dissolved)	µg/L	6.6 J	1.7 UJ	1.7 U	3.3 U	4.2 U	3.3 U	27	2.97 U	2.97 U	6.5 U
Iron	µg/L	5800[b]	5900[b]	3000[b]	20000[b]	18000[b]	14000[b]	91000[b]	35000[b]	8100[b]	36000[b]
Iron (dissolved)	µg/L	2200[b]	2100[b]	2700[b]	3300[b]	2900[b]	2000[b]	21000[b]	2900[b]	3800[b]	4500[b]
Lead	µg/L	2.1	2.0	0.45 U	7.4	6.6	7.4	87[ab]	13	2.7	17[ab]
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	16[ab]	0.45 U	0.45 U	1.3
Magnesium	µg/L	34000	35000	30000	63000	57000	64000	160000	86000	47000	64000
Magnesium (dissolved)	µg/L	30000	28000	30000	37000	34000	35000	55000	36000	39000	37000
Manganese	µg/L	240[b]	240[b]	200[b]	520[b]	470[b]	470[b]	2800[b]	790[b]	200[b]	760[b]
Manganese (dissolved)	µg/L	150[b]	150[b]	200[b]	230[b]	210[b]	190[b]	760[b]	210[b]	110[b]	200[b]
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	8.2	7.8	1.9 J	14	12	12	110[b]	25	4.9	31
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.5 U	1.6 J	1.5 U	1.5 U	22	1.5 U	1.5 U	3.9
Potassium	µg/L	5600	5600	7100	6900	6000	7400	24000	8700	6300	8600
Potassium (dissolved)	µg/L	5700	5400	7300	5000	4600	5200	12000	6100	5500	5100
Selenium	µg/L	0.89 U	0.89 U	0.89 U	1.6 J	1.1 J	0.98 J	5.4	1.3 J	0.89 U	1.6 J

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-35	VAS-35	VAS-35	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36
Sample ID:		GW-38443-010318-KVM-020	GW-38443-010318-KVM-021	GW-38443-010418-KVM-022	GW-38443-100818-JC-202	GW-38443-100818-JC-203	GW-38443-100818-JC-204	GW-38443-100918-JC-205	GW-38443-100918-JC-206	GW-38443-101018-JC-207	GW-38443-101018-JC-208
Sample Date:		1/3/2018	1/3/2018	1/4/2018	10/8/2018	10/8/2018	10/8/2018	10/9/2018	10/9/2018	10/10/2018	10/10/2018
Sample Depth:		130-140 ft BGS	130-140 ft BGS	140-150 ft BGS	60-70 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS
			Duplicate			Duplicate					
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.93 J	0.89 U	0.89 U	0.89 U	1.4 J	0.89 U	0.89 U	0.89 U
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.21 J	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	43000	43000	40000	55000	49000	52000	53000	47000	45000	40000
Sodium (dissolved)	µg/L	47000	45000	41000	53000	49000	52000	50000	48000	44000	39000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.26 J[b]	0.20 U	0.23 J[b]	1.5[b]	0.25 J[b]	0.20 U	0.40 J[b]
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.35 J[b]	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	3.1 J	2.7 J	0.82 U	13[b]	11[b]	14[b]	130[b]	25[b]	4.4 J	28[b]
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	31[b]	0.82 U	0.82 U	2.3 J
Zinc	µg/L	280	280	250	990[b]	890[b]	850[b]	640[b]	1000[b]	1200[b]	940[b]
Zinc (dissolved)	µg/L	260	250	260	690[b]	620[b]	690[b]	300	600	1100[b]	510
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-010318-KVM-020**	**GW-38443-010318-KVM-021**	**GW-38443-010418-KVM-022**	**GW-38443-100818-JC-202**	**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**	**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**
Sample Date:		**1/3/2018**	**1/3/2018**	**1/4/2018**	**10/8/2018**	**10/8/2018**	**10/8/2018**	**10/9/2018**	**10/9/2018**	**10/10/2018**	**10/10/2018**
Sample Depth:		**130-140 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**60-70 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**
			Duplicate			**Duplicate**					
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	62000	62000	55000	82000	82000	83000	83000	85000	84000	77000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	14 U	14 U	14 U	25 J	16 J	18 J	69 J	65 J	75 J	290
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	50000	50000	89000	60000	60000	59000	57000	63000	64000	64000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**MW-220**	**MW-220**
Sample ID:		**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**	**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**	**GW-38443-020519-JC-222**	**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**GW-38443-010610-DR-012**	**GW-38443-041510-NZ-021**
Sample Date:		**10/10/2018**	**10/11/2018**	**10/11/2018**	**10/11/2018**	**2/5/2019**	**2/5/2019**	**2/5/2019**	**2/20/2019**	**1/6/2010**	**4/15/2010**
Sample Depth:		**110-120 ft BGS Duplicate**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	2.5 U	4.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 UJ	2.5 U	4.0 UJ
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	2.5 U	4.0 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	2.5 U	4.0 UJ
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	2.5 U	4.0 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 J	2.5 U	4.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	5.0 U	8.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	2.5 U	4.0 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.5 U	4.0 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.5 U	4.0 UJ
1,2-Dichloropropane	µg/L	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.5 U	4.0 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.5 U	4.0 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	2.5 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	25 U	3.4 J
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 UJ	25 U	40 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	25 U	40 UJ
Acetone	µg/L	7.0 J	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	25 UJ	40 UJ
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.22 J	31[ab]	59[ab]
Bromodichloromethane	µg/L	2.3[b]	0.17 U	1.2[b]	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	2.5 U	4.0 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 UJ	2.5 U	4.0 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	2.5 UJ	4.0 U
Carbon disulfide	µg/L	0.95 J	0.28 U	0.76 J	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	2.5 U	4.0 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.5 U	4.0 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	2.5 U	4.0 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	2.5 U	4.0 U
Chloroform (Trichloromethane)	µg/L	5.2[b]	0.29 J[b]	3.3[b]	0.53 J[b]	0.13 U	0.13 U	0.13 U	0.20 J	2.5 U	4.0 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	2.5 U	4.0 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.20 J	0.16 U	0.16 U	0.57 UJ	78[ab]	86[ab]
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	2.5 U	4.0 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	7.5	7.8
Dibromochloromethane	µg/L	1.2[b]	0.39 U	0.88 J[b]	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	2.5 U	4.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	2.5 UJ	4.0 UJ
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	12[b]	6.6[b]
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	1.3 J	1.9 J
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.11 J	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	-	-
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	25 U	40 UJ
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	4.7	6.1 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	12 U	20 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.5 U	4.0 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	-	-
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	2.5 U	4.0 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 UJ	2.5 U	4.0 UJ
Toluene	µg/L	0.51 J	0.14 U	0.29 J	0.15 J	1.1	1.1	0.64 J	0.30 J	0.79 J	4.0 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 J	2.5 U	4.0 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 UJ	2.5 U	4.0 UJ
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.44 J[b]	0.32 J[b]	0.60 J[b]	0.14 J	2.5 U	4.0 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	2.5 U	4.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	2.5 U	4.0 U
Vinyl chloride	µg/L	13[ab]	3.7[ab]	1.5[b]	1.3[b]	0.20 U	0.20 U	0.20 U	0.20 U	18[ab]	41[ab]
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	57[b]	5.9 J

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-36	VAS-36	VAS-36	VAS-36	VAS-39	VAS-39	VAS-39	VAS-39	MW-220	MW-220
Sample ID:		GW-38443-101018-JC-209	GW-38443-101118-JC-211	GW-38443-101118-JC-212	GW-38443-101118-JC-213	GW-38443-020519-JC-222	GW-38443-020519-JC-223	GW-38443-020519-JC-224	GW-38443-022019-JC-225	GW-38443-010610-DR-012	GW-38443-041510-NZ-021
Sample Date:		10/10/2018	10/11/2018	10/11/2018	10/11/2018	2/5/2019	2/5/2019	2/5/2019	2/20/2019	1/6/2010	4/15/2010
Sample Depth:		110-120 ft BGS Duplicate	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	81-86 ft BGS	81-86 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	1.5	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	5.0 UJ	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	1.0 U	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**MW-220**	**MW-220**
Sample ID:		**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**	**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**	**GW-38443-020519-JC-222**	**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**GW-38443-010610-DR-012**	**GW-38443-041510-NZ-021**
Sample Date:		**10/10/2018**	**10/11/2018**	**10/11/2018**	**10/11/2018**	**2/5/2019**	**2/5/2019**	**2/5/2019**	**2/20/2019**	**1/6/2010**	**4/15/2010**
Sample Depth:		**110-120 ft BGS Duplicate**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	10 U	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	**1.8[b]**	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	5.0 U	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Phenol	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Metals											
Aluminum	µg/L	**13000[b]**	**4600 J[b]**	**15000 J[b]**	**23000 J[b]**	**4200[b]**	**14000[b]**	**7200[b]**	**5200[b]**	640	173 J
Aluminum (dissolved)	µg/L	1100	210 U	310 U	34 U	330	34 U	770	280	-	-
Antimony	µg/L	**1.6 J[b]**	0.57 U	**1.5 J[b]**	**1.2 J[b]**	0.57 U	0.71 J	0.57 U	0.57 U	2.0 U	2.0 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 J	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	-	-
Arsenic	µg/L	**11[ab]**	**3.4 J[b]**	**10[b]**	**8.8[b]**	**7.4[b]**	**12[ab]**	**8.4[b]**	**7.1[b]**	**2.4 J[b]**	**3.2 J[b]**
Arsenic (dissolved)	µg/L	**1.6 J[b]**	**1.1 J[b]**	**1.2 J[b]**	**1.1 J[b]**	**4.8 J[b]**	**3.4 J[b]**	**3.5 J[b]**	**3.9 J[b]**	-	-
Barium	µg/L	290	**480[b]**	**430[b]**	**570[b]**	270	330	270	230	85.9 J	84.6 J
Barium (dissolved)	µg/L	200	**410[b]**	290	380	240	200	210	190	-	-
Beryllium	µg/L	0.66 J	0.41 J	1.1	1.1	0.31 U	0.60 J	0.32 J	0.64 J	5.0 U	5.0 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.77 J	0.31 U	0.48 J	0.31 U	0.33 J	0.78 J	-	-
Cadmium	µg/L	0.30 U	0.31 U	0.71 U	0.71 U	0.21 U	0.39 J	0.21 U	0.21 J	1.0 U	1.0 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.29 U	0.21 U	0.21 U	0.21 U	0.21 U	0.22 J	-	-
Calcium	µg/L	190000	130000	220000	210000	130000	200000	170000	150000	99900	106000
Calcium (dissolved)	µg/L	90000	95000	73000	87000	100000	110000	130000	130000	-	-
Chromium	µg/L	82	10	79	94	16	64	33	18	10.0 U	10.0 U
Chromium (dissolved)	µg/L	5.7	0.98 U	1.1 J	0.98 U	1.2 J	0.98 U	3.4	1.2 J	-	-
Cobalt	µg/L	**12[b]**	**3.6[b]**	**14[b]**	**17[b]**	**2.3[b]**	**7.3[b]**	**3.7[b]**	**3.5[b]**	50.0 U	50.0 U
Cobalt (dissolved)	µg/L	**1.3[b]**	0.31 U	0.68 U	0.31 U	0.38 J	0.36 J	**0.70 J[b]**	**0.61 J[b]**	-	-
Copper	µg/L	45	14	54	65	10	31	17	12	25.0 U	25.0 U
Copper (dissolved)	µg/L	5.3 U	1.7 U	3.5 U	1.7 U	1.7 U	1.7 U	2.2	1.7 U	-	-
Iron	µg/L	**41000[b]**	**11000[b]**	**44000[b]**	**48000[b]**	**16000[b]**	**42000[b]**	**26000[b]**	**18000[b]**	**3580[b]**	**3130[b]**
Iron (dissolved)	µg/L	**4900[b]**	**3600[b]**	**2000[b]**	**2800[b]**	**4300[b]**	**3000[b]**	**5800[b]**	**5400[b]**	-	-
Lead	µg/L	**19[ab]**	7.9	**25[ab]**	**25[ab]**	5.7	**17[ab]**	9.6	7.4	0.54 J	0.28 J
Lead (dissolved)	µg/L	1.5	0.61 U	0.65 U	0.45 U	0.55 J	0.45 U	1.0	0.61 J	-	-
Magnesium	µg/L	67000	48000	79000	70000	43000	75000	59000	57000	41100	43000
Magnesium (dissolved)	µg/L	38000	38000	34000	40000	35000	38000	48000	48000	-	-
Manganese	µg/L	**850[b]**	**330[b]**	**1000[b]**	**1200[b]**	**450[b]**	**980[b]**	**800[b]**	**630[b]**	**180[b]**	**198[b]**
Manganese (dissolved)	µg/L	**210[b]**	**150[b]**	**190[b]**	**200[b]**	**300[b]**	**410[b]**	**530[b]**	**420[b]**	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	626	-
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.20 U	0.20 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	-
Nickel	µg/L	35	8.7	36	**44[b]**	9.6	29	17	11	40.0 U	40.0 U
Nickel (dissolved)	µg/L	4.2	1.5 U	2.0	1.5 U	1.8 J	2.3	4.2	2.6	-	-
Potassium	µg/L	9000	7200	11000	15000	5200	7500	5800	6100	4780 J	4900 J
Potassium (dissolved)	µg/L	5300	5700	6100	8100	4200	4100	4400	5000	-	-
Selenium	µg/L	1.8 J	1.2 J	2.7 J	2.1 J	0.89 U	1.2 J	0.95 J	0.89 U	5.0 U	5.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-36	VAS-36	VAS-36	VAS-36	VAS-39	VAS-39	VAS-39	VAS-39	MW-220	MW-220
Sample ID:		GW-38443-101018-JC-209	GW-38443-101118-JC-211	GW-38443-101118-JC-212	GW-38443-101118-JC-213	GW-38443-020519-JC-222	GW-38443-020519-JC-223	GW-38443-020519-JC-224	GW-38443-022019-JC-225	GW-38443-010610-DR-012	GW-38443-041510-NZ-021
Sample Date:		10/10/2018	10/11/2018	10/11/2018	10/11/2018	2/5/2019	2/5/2019	2/5/2019	2/20/2019	1/6/2010	4/15/2010
Sample Depth:		110-120 ft BGS Duplicate	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	81-86 ft BGS	81-86 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	0.89 U	0.89 U	1.1 J	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	-	-
Silver	µg/L	0.12 J	0.053 U	0.094 J	0.089 J	0.053 U	0.096 J	0.065 J	0.053 U	1.0 U	1.0 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-	-
Sodium	µg/L	39000	37000	37000	37000	33000	33000	38000	41000	43900	44800
Sodium (dissolved)	µg/L	40000	37000	35000	37000	33000	34000	38000	43000	-	-
Thallium	µg/L	0.45 J[b]	0.22 U	0.55 U	0.51 U	0.20 U	0.33 J[b]	0.20 U	0.23 J[b]	1.0 U	1.0 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.23 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	-
Vanadium	µg/L	31[b]	10[b]	39[b]	52[b]	8.6	30[b]	15[b]	12[b]	1.0 J	50.0 U
Vanadium (dissolved)	µg/L	2.6 J	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.3 J	0.85 J	-	-
Zinc	µg/L	860[b]	510	1200[b]	440	530	930[b]	620[b]	910[b]	20.0 U	20.0 U
Zinc (dissolved)	µg/L	530	460	540	150	440	480	480	710[b]	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	0.20 U	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Endrin	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	0.050 U	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	0.10 U	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	2.0 U	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	0.28 J	0.50 U
Ethene	µg/L	-	-	-	-	-	-	-	-	0.72	1.1
Methane	µg/L	-	-	-	-	-	-	-	-	1.6	3.0
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	1.0 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	4.0 U	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**MW-220**	**MW-220**
Sample ID:		**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**	**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**	**GW-38443-020519-JC-222**	**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**GW-38443-010610-DR-012**	**GW-38443-041510-NZ-021**
Sample Date:		**10/10/2018**	**10/11/2018**	**10/11/2018**	**10/11/2018**	**2/5/2019**	**2/5/2019**	**2/5/2019**	**2/20/2019**	**1/6/2010**	**4/15/2010**
Sample Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**
		Duplicate									
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	297000	331000
Chloride	µg/L	77000	80000	76000	82000	61000	62000	63000	64000	61400	74500
Cyanide (total)	µg/L	-	-	-	-	-	-	-	6 U	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	2000	2000
Hardness	µg/L	-	-	-	-	-	-	-	-	419000	442000
Nitrate (as N)	µg/L	300	14 U	350	37 U	14 U	14 U	14 U	14 U	100 U	100 U
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	100 U	100 U
Sulfate	µg/L	64000	74000	61000	66000	68000	75000	88000	89000	106000	109000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	3000 U	3000 U

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-220	MW-221	MW-221	MW-221	MW-222	MW-222	MW-222	MW-223B	MW-223B	MW-224B
Sample ID:		GW-38443-062315-JC-027	GW-38443-010610-DR-010	GW-38443-041510-GL-020	GW-38443-062415-JC-028	GW-38443-010610-DR-011	GW-38443-041310-GL-006	GW-38443-051215-GL-010	GW-38443-041310-NZ-002	GW-38443-102418-JC-226	GW-38443-041310-GL-003
Sample Date:		6/23/2015	1/6/2010	4/15/2010	6/24/2015	1/6/2010	4/13/2010	5/12/2015	4/13/2010	10/24/2018	4/13/2010
Sample Depth:		81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	100-105 ft BGS	100-105 ft BGS	100-105 ft BGS	98.5-103.5 ft BGS	98.5-103.5 ft BGS	100-105 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	1.2 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.65 U	1.0 UJ
1,1,2-Trichloroethane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.45 U	1.0 U
1,1-Dichloroethane	µg/L	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.85 U	0.28 J
1,1-Dichloroethene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.95 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	1.3 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.9 U	40 U	40 U	20 U	2.0 U	2.0 U	2.0 U	11 U	0.0086 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.0087 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.75 U	1.0 U
1,2-Dichloroethane	µg/L	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 UJ	1.0 U	5.7 UJ	1.1 U	1.0 U
1,2-Dichloropropane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.75 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.75 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.80 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	14 U	200 U	200 UJ	100 U	10 U	10 U	10 U	57 U	5.8 U	10 U
2-Hexanone	µg/L	14 U	200 U	200 UJ	100 U	10 U	10 U	10 U	57 U	2.7 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	14 U	200 U	200 UJ	100 U	10 U	10 U	10 U	57 U	2.1 U	10 UJ
Acetone	µg/L	14 U	200 U	200 UJ	100 U	10 U	10 U	10 U	57 U	27 U	10 U
Benzene	µg/L	38[ab]	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.65 U	1.0 U
Bromodichloromethane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.85 U	1.0 UJ
Bromoform	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	3.8 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.4 UJ	20 U	20 U	10 UJ	1.0 U	1.0 UJ	1.0 UJ	5.7 UJ	2.1 U	1.0 UJ
Carbon disulfide	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	1.4 U	1.0 U
Carbon tetrachloride	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 UJ	1.0 U	5.7 UJ	1.3 U	1.0 U
Chlorobenzene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.70 U	1.0 U
Chloroethane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	4.2 U	1.0 UJ
Chloroform (Trichloromethane)	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.65 U	1.0 UJ
Chloromethane (Methyl chloride)	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	40[b]	420[ab]	440[ab]	290[ab]	30[b]	26[b]	17[b]	170[ab]	130[ab]	1.0 U
cis-1,3-Dichloropropene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	3.1 U	1.0 U
Cyclohexane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	1.2 U	1.0 UJ
Dibromochloromethane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	2.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.4 U	20 UJ	20 UJ	10 U	1.0 UJ	1.0 UJ	1.0 U	5.7 UJ	1.8 U	1.0 UJ
Ethylbenzene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.55 U	1.0 U
Isopropyl benzene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.45 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	0.40 U	-
Methyl acetate	µg/L	14 U	200 U	200 UJ	100 U	10 U	10 U	10 U	57 U	8.6 U	10 U
Methyl cyclohexane	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	1.7 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	1.4 U	100 U	100 U	10 U	5.0 U	5.0 U	1.0 U	29 U	0.35 U	5.0 U
Methylene chloride	µg/L	1.4 U	9.1 J[a]	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	13 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	0.45 U	-
Styrene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.50 U	1.0 U
Tetrachloroethene	µg/L	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.75 U	1.0 U
Toluene	µg/L	1.4 U	20 U	20 U	10 U	0.19 J	1.0 U	1.0 U	5.7 U	0.70 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.4 U	20 U	7.0 J	10 U	0.25 J	0.20 J	1.0 U	5.7 U	0.95 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 UJ	1.0 U	5.7 UJ	3.4 U	1.0 UJ
Trichloroethene	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	0.50 U	0.51 J[b]
Trichlorofluoromethane (CFC-11)	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	2.3 U	1.0 UJ
Trifluorotrichloroethane (CFC-113)	µg/L	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U	5.7 U	2.1 U	1.0 U
Vinyl chloride	µg/L	33[ab]	53[ab]	87[ab]	110[ab]	2.8[ab]	2.7[ab]	5.6[ab]	98[ab]	85[ab]	1.0 U
Xylenes (total)	µg/L	2.9 U	40 U	40 U	20 U	2.0 U	2.0 U	2.0 U	11 U	0.75 U	2.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-220	MW-221	MW-221	MW-221	MW-222	MW-222	MW-222	MW-223B	MW-223B	MW-224B
Sample ID:		GW-38443-062315-JC-027	GW-38443-010610-DR-010	GW-38443-041510-GL-020	GW-38443-062415-JC-028	GW-38443-010610-DR-011	GW-38443-041310-GL-006	GW-38443-051215-GL-010	GW-38443-041310-NZ-002	GW-38443-102418-JC-226	GW-38443-041310-GL-003
Sample Date:		6/23/2015	1/6/2010	4/15/2010	6/24/2015	1/6/2010	4/13/2010	5/12/2015	4/13/2010	10/24/2018	4/13/2010
Sample Depth:		81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	100-105 ft BGS	100-105 ft BGS	100-105 ft BGS	98.5-103.5 ft BGS	98.5-103.5 ft BGS	100-105 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.54 U	-
2,4,5-Trichlorophenol	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	1.9 U	-
2,4,6-Trichlorophenol	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	1.8 U	-
2,4-Dichlorophenol	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.26 U	-
2,4-Dimethylphenol	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.51 U	-
2,4-Dinitrophenol	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	6.1 U	-
2,4-Dinitrotoluene	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	2.0 U	-
2,6-Dinitrotoluene	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	2.1 U	-
2-Chloronaphthalene	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.47 U	-
2-Chlorophenol	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.27 U	-
2-Methylnaphthalene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.11 U	-
2-Methylphenol	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.20 U	-
2-Nitroaniline	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.50 U	-
2-Nitrophenol	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.55 U	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	0.19 U	-
3,3'-Dichlorobenzidine	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	1.1 U	-
3-Nitroaniline	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.55 U	-
4,6-Dinitro-2-methylphenol	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	2.8 U	-
4-Bromophenyl phenyl ether	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.49 U	-
4-Chloro-3-methylphenol	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.29 U	-
4-Chloroaniline	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.31 U	-
4-Chlorophenyl phenyl ether	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.54 U	-
4-Methylphenol	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	-	-
4-Nitroaniline	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.90 U	-
4-Nitrophenol	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	2.1 U	-
Acenaphthene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.17 U	-
Acenaphthylene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.12 U	-
Acetophenone	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.36 U	-
Anthracene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.13 U	-
Atrazine	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.93 U	-
Benzaldehyde	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.74 U	-
Benzo(a)anthracene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.17 U	-
Benzo(a)pyrene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.17 U	-
Benzo(b)fluoranthene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.15 U	-
Benzo(g,h,i)perylene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.17 U	-
Benzo(k)fluoranthene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.14 U	-
Biphenyl (1,1-Biphenyl)	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.48 U	-
bis(2-Chloroethoxy)methane	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.45 U	-
bis(2-Chloroethyl)ether	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.39 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	2.2 U	-
Butyl benzylphthalate (BBP)	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.65 U	-
Caprolactam	µg/L	-	5.0 UJ	-	-	5.0 UJ	-	-	-	0.92 U	-
Carbazole	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.48 U	-
Chrysene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.18 U	-
Dibenz(a,h)anthracene	µg/L	-	0.35[b]	-	-	0.20 U	-	-	-	0.15 U	-
Dibenzofuran	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.55 U	-
Diethyl phthalate	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	3.7 U	-
Dimethyl phthalate	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.50 U	-
Di-n-butylphthalate (DBP)	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	1.8 U	-
Di-n-octyl phthalate (DnOP)	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.80 U	-
Fluoranthene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.16 U	-
Fluorene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.17 U	-
Hexachlorobenzene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.16 U	-
Hexachlorobutadiene	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.53 U	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-220	MW-221	MW-221	MW-221	MW-222	MW-222	MW-222	MW-223B	MW-223B	MW-224B
Sample ID:		GW-38443-062315-JC-027	GW-38443-010610-DR-010	GW-38443-041510-GL-020	GW-38443-062415-JC-028	GW-38443-010610-DR-011	GW-38443-041310-GL-006	GW-38443-051215-GL-010	GW-38443-041310-NZ-002	GW-38443-102418-JC-226	GW-38443-041310-GL-003
Sample Date:		6/23/2015	1/6/2010	4/15/2010	6/24/2015	1/6/2010	4/13/2010	5/12/2015	4/13/2010	10/24/2018	4/13/2010
Sample Depth:		81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	100-105 ft BGS	100-105 ft BGS	100-105 ft BGS	98.5-103.5 ft BGS	98.5-103.5 ft BGS	100-105 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	10 U	-	-	10 U	-	-	-	1.7 U	-
Hexachloroethane	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.39 U	-
Indeno(1,2,3-cd)pyrene	µg/L	-	0.35[b]	-	-	0.20 U	-	-	-	0.13 U	-
Isophorone	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.32 U	-
Naphthalene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.11 U	-
Nitrobenzene	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.50 U	-
N-Nitrosodi-n-propylamine	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.25 U	-
N-Nitrosodiphenylamine	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.43 U	-
Pentachlorophenol	µg/L	-	5.0 U	-	-	5.0 U	-	-	-	3.0 U	-
Phenanthrene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.16 U	-
Phenol	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.13 U	-
Pyrene	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.17 U	-
Metals											
Aluminum	µg/L	-	869	873	-	2930[b]	127 J	-	-	85	-
Aluminum (dissolved)	µg/L	-	120 J	-	-	-	-	-	-	34 U	-
Antimony	µg/L	-	2.0 U	2.0 U	-	2.0 U	2.0 U	-	-	0.57 U	-
Antimony (dissolved)	µg/L	-	2.0 U	-	-	-	-	-	-	0.57 U	-
Arsenic	µg/L	-	2.8 J[b]	5.0[b]	-	1.7 J[b]	1.6 J[b]	-	1.9 J[b]	5.3[b]	1.5 J[b]
Arsenic (dissolved)	µg/L	-	3.1 J[b]	-	-	-	-	-	-	5.4[b]	-
Barium	µg/L	-	126 J	127 J	-	186 J	187 J	-	-	140	-
Barium (dissolved)	µg/L	-	123 J	-	-	-	-	-	-	130	-
Beryllium	µg/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	-	-	0.31 U	-
Beryllium (dissolved)	µg/L	-	5.0 U	-	-	-	-	-	-	0.43 J	-
Cadmium	µg/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	0.21 U	-
Cadmium (dissolved)	µg/L	-	1.0 U	-	-	-	-	-	-	0.21 U	-
Calcium	µg/L	-	83600	85400	-	110000	107000	-	-	83000	-
Calcium (dissolved)	µg/L	-	85800	-	-	-	-	-	-	83000	-
Chromium	µg/L	-	10.0 U	10.0 U	-	4.6 J	10.0 U	-	-	0.98 U	-
Chromium (dissolved)	µg/L	-	10.0 U	-	-	-	-	-	-	0.98 U	-
Cobalt	µg/L	-	50.0 U	50.0 U	-	1.9 J[b]	50.0 U	-	-	0.19 U	-
Cobalt (dissolved)	µg/L	-	50.0 U	-	-	-	-	-	-	0.19 U	-
Copper	µg/L	-	25.0 U	25.0 U	-	25.0 U	25.0 U	-	-	1.7 U	-
Copper (dissolved)	µg/L	-	25.0 U	-	-	-	-	-	-	1.7 U	-
Iron	µg/L	-	4140[b]	4450[b]	-	7680[b]	3780[b]	-	-	2900[b]	-
Iron (dissolved)	µg/L	-	3410[b]	-	-	-	-	-	-	2700[b]	-
Lead	µg/L	-	0.70 J	0.83 J	-	2.2	1.0 U	-	1.5	0.46 J	1.0 U
Lead (dissolved)	µg/L	-	1.0 U	-	-	-	-	-	-	0.45 U	-
Magnesium	µg/L	-	42900	40700	-	44900	40400	-	-	33000	-
Magnesium (dissolved)	µg/L	-	44100	-	-	-	-	-	-	33000	-
Manganese	µg/L	-	144[b]	140[b]	-	170[b]	86.0[b]	-	-	100[b]	-
Manganese (dissolved)	µg/L	-	135[b]	-	-	-	-	-	-	100[b]	-
Manganese 2+	µg/L	-	925	-	-	286	-	-	-	-	-
Mercury	µg/L	-	0.20 U	0.20 U	-	0.20 U	0.20 U	-	-	0.13 U	-
Mercury (dissolved)	µg/L	-	0.20 U	-	-	-	-	-	-	0.13 U	-
Nickel	µg/L	-	40.0 U	40.0 U	-	5.6 J	40.0 U	-	-	1.5 U	-
Nickel (dissolved)	µg/L	-	3.7 J	-	-	-	-	-	-	1.5 U	-
Potassium	µg/L	-	14000	13500	-	5660	4480 J	-	-	9500	-
Potassium (dissolved)	µg/L	-	13800	-	-	-	-	-	-	9600	-
Selenium	µg/L	-	5.0 U	5.0 U	-	5.0 U	5.0 U	-	-	0.89 U	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-220	MW-221	MW-221	MW-221	MW-222	MW-222	MW-222	MW-223B	MW-223B	MW-224B
Sample ID:		GW-38443-062315-JC-027	GW-38443-010610-DR-010	GW-38443-041510-GL-020	GW-38443-062415-JC-028	GW-38443-010610-DR-011	GW-38443-041310-GL-006	GW-38443-051215-GL-010	GW-38443-041310-NZ-002	GW-38443-102418-JC-226	GW-38443-041310-GL-003
Sample Date:		6/23/2015	1/6/2010	4/15/2010	6/24/2015	1/6/2010	4/13/2010	5/12/2015	4/13/2010	10/24/2018	4/13/2010
Sample Depth:		81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	81-86 ft BGS	100-105 ft BGS	100-105 ft BGS	100-105 ft BGS	98.5-103.5 ft BGS	98.5-103.5 ft BGS	100-105 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	5.0 U	-	-	-	-	-	-	0.89 U	-
Silver	µg/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	2.9	-
Silver (dissolved)	µg/L	-	1.0 U	-	-	-	-	-	-	0.053 U	-
Sodium	µg/L	-	48600	46500	-	51900	52000	-	-	31000	-
Sodium (dissolved)	µg/L	-	49900	-	-	-	-	-	-	31000	-
Thallium	µg/L	-	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	0.20 U	-
Thallium (dissolved)	µg/L	-	1.0 U	-	-	-	-	-	-	0.20 J[b]	-
Vanadium	µg/L	-	1.5 J	0.68 J	-	5.1 J	50.0 U	-	-	0.82 U	-
Vanadium (dissolved)	µg/L	-	50.0 U	-	-	-	-	-	-	0.82 U	-
Zinc	µg/L	-	20.0 U	28.3	-	20.2 U	20.0 U	-	-	15 U	-
Zinc (dissolved)	µg/L	-	20.0 U	-	-	-	-	-	-	15 U	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.054 U	-
Aroclor-1221 (PCB-1221)	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.055 U	-
Aroclor-1232 (PCB-1232)	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.071 U	-
Aroclor-1242 (PCB-1242)	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.073 U	-
Aroclor-1248 (PCB-1248)	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.048 U	-
Aroclor-1254 (PCB-1254)	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.038 U	-
Aroclor-1260 (PCB-1260)	µg/L	-	0.20 U	-	-	0.20 U	-	-	-	0.044 U	-
Pesticides											
4,4'-DDD	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0051 U	-
4,4'-DDE	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0041 U	-
4,4'-DDT	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0046 U	-
Aldrin	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0023 U	-
alpha-BHC	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0019 U	-
alpha-Chlordane	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0031 U	-
beta-BHC	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0044 U	-
delta-BHC	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0041 U	-
Dieldrin	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0022 U	-
Endosulfan I	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0036 U	-
Endosulfan II	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0022 U	-
Endosulfan sulfate	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0036 U	-
Endrin	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0024 U	-
Endrin aldehyde	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0044 U	-
Endrin ketone	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0038 U	-
gamma-BHC (lindane)	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0024 U	-
gamma-Chlordane	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0048 U	-
Heptachlor	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0032 U	-
Heptachlor epoxide	µg/L	-	0.050 U	-	-	0.050 U	-	-	-	0.0025 U	-
Methoxychlor	µg/L	-	0.10 U	-	-	0.10 U	-	-	-	0.0045 U	-
Toxaphene	µg/L	-	2.0 U	-	-	2.0 U	-	-	-	0.056 U	-
Gases											
Ethane	µg/L	-	4.0 J	4.6	-	0.36 J	0.50 U	-	-	-	-
Ethene	µg/L	-	4.0	4.1	-	0.50 U	0.50 U	-	-	-	-
Methane	µg/L	-	130	200	-	1.7	2.8	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	0.57 U	-
2,4,5-TP (Silvex)	µg/L	-	1.0 U	-	-	1.0 U	-	-	-	0.43 U	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	4.0 U	-	-	4.0 U	-	-	-	2.2 U	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**MW-220**	**MW-221**	**MW-221**	**MW-221**	**MW-222**	**MW-222**	**MW-222**	**MW-223B**	**MW-223B**	**MW-224B**
Sample ID:		**GW-38443-062315-JC-027**	**GW-38443-010610-DR-010**	**GW-38443-041510-GL-020**	**GW-38443-062415-JC-028**	**GW-38443-010610-DR-011**	**GW-38443-041310-GL-006**	**GW-38443-051215-GL-010**	**GW-38443-041310-NZ-002**	**GW-38443-102418-JC-226**	**GW-38443-041310-GL-003**
Sample Date:		**6/23/2015**	**1/6/2010**	**4/15/2010**	**6/24/2015**	**1/6/2010**	**4/13/2010**	**5/12/2015**	**4/13/2010**	**10/24/2018**	**4/13/2010**
Sample Depth:		**81-86 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**	**100-105 ft BGS**	**100-105 ft BGS**	**100-105 ft BGS**	**98.5-103.5 ft BGS**	**98.5-103.5 ft BGS**	**100-105 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	312000	352000	-	294000	350000	-	-	-	-
Chloride	µg/L	-	88000	86200	-	106000	104000	-	-	67000	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	6 U	-
Dissolved organic carbon (DOC)	µg/L	-	2000	2000	-	1000	3000	-	-	-	-
Hardness	µg/L	-	386000	381000	-	461000	433000	-	-	-	-
Nitrate (as N)	µg/L	-	100 U	1000	-	100 U	100 U	-	-	14 U	-
Nitrite (as N)	µg/L	-	100 U	100 U	-	100 U	100 U	-	-	14 U	-
Sulfate	µg/L	-	57100	55900	-	68000	68700	-	-	75000	-
Sulfide (acid soluble)	µg/L	-	3000 U	3000 U	-	3000 U	3000 U	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-224B	MW-224B	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26
Sample ID:		GW-38443-041310-GL-004	GW-38443-101618-AS-214	GW-38443-110509-DR-065	GW-38443-110509-DR-066	GW-38443-110509-DR-067	GW-38443-110609-DR-069	GW-38443-110609-DR-070	GW-38443-110609-DR-071	GW-38443-110609-DR-072	GW-38443-110609-DR-073
Sample Date:		4/13/2010	10/16/2018	11/5/2009	11/5/2009	11/5/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
Sample Depth:		100-105 ft BGS Duplicate	100-105 ft BGS	61-66 ft BGS	66-71 ft BGS	71-76 ft BGS	76-81 ft BGS	81-86 ft BGS	86-91 ft BGS	86-91 ft BGS Duplicate	91-96 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	0.24 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	0.13 U	50 U	12 U	17 U	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
1,1,2-Trichloroethane	µg/L	1.0 U	0.090 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,1-Dichloroethane	µg/L	0.33 J	0.49 J	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,1-Dichloroethene	µg/L	1.0 U	0.19 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	0.26 U	50 U	12 U	17 U	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	0.0086 U	100 U	25 U	33 U	57 U	50 U	20 U	20 U	13 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	0.0087 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,2-Dichlorobenzene	µg/L	1.0 U	0.15 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,2-Dichloroethane	µg/L	1.0 UJ	0.21 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,2-Dichloropropane	µg/L	1.0 U	0.15 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,3-Dichlorobenzene	µg/L	1.0 U	0.15 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
1,4-Dichlorobenzene	µg/L	1.0 U	0.16 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	1.2 U	500 U	120 U	170 U	290 U	250 U	100 U	100 U	67 U
2-Hexanone	µg/L	10 U	0.54 U	500 U	120 U	170 U	290 U	250 U	100 U	100 U	67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	0.42 U	500 U	120 U	170 U	290 U	250 U	100 U	100 U	67 U
Acetone	µg/L	10 U	5.4 U	500 U	120 U	170 U	290 U	250 U	100 U	100 U	67 U
Benzene	µg/L	1.0 U	0.13 U	50 U	12 U	17 U	220[ab]	240[ab]	67[ab]	70[ab]	64[ab]
Bromodichloromethane	µg/L	1.0 U	0.17 U	50 U	12 U	17 U	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
Bromoform	µg/L	1.0 U	0.76 U	50 U	12 U	17 U	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 UJ	0.42 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Carbon disulfide	µg/L	1.0 U	0.28 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Carbon tetrachloride	µg/L	1.0 UJ	0.26 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Chlorobenzene	µg/L	1.0 U	0.14 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Chloroethane	µg/L	1.0 U	0.83 UJ	50 U	12 U	17 U	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
Chloroform (Trichloromethane)	µg/L	1.0 U	0.13 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	0.20 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
cis-1,2-Dichloroethene	µg/L	1.0 U	0.74 J	50 U	23[b]	25[b]	290[ab]	340[ab]	130[ab]	140[ab]	140[ab]
cis-1,3-Dichloropropene	µg/L	1.0 U	0.61 U	50 UJ	12 UJ	17 UJ	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
Cyclohexane	µg/L	1.0 U	0.24 U	350	64	93	250	200	57	58	45
Dibromochloromethane	µg/L	1.0 U	0.39 U	50 U	12 U	17 U	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	0.35 U	50 UJ	12 UJ	17 UJ	29 U	25 U	10 U	10 U	6.7 U
Ethylbenzene	µg/L	1.0 U	0.11 U	710[ab]	81[b]	110[b]	260[b]	210[b]	110[b]	110[b]	72[b]
Isopropyl benzene	µg/L	1.0 U	0.090 U	75[b]	17	23	54[b]	42	17	17	12
m&p-Xylenes	µg/L	-	0.080 U	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	1.7 U	500 UJ	120 UJ	170 UJ	290 U	250 U	100 U	100 U	67 U
Methyl cyclohexane	µg/L	1.0 U	0.33 U	190	59	90	180	140	28	29	24
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	0.070 U	250 U	62 U	83 U	140 U	120 U	50 U	50 U	33 U
Methylene chloride	µg/L	1.0 U	2.6 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
o-Xylene	µg/L	-	0.090 U	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	0.10 U	50 UJ	12 UJ	17 UJ	29 U	25 U	10 U	10 U	6.7 U
Tetrachloroethene	µg/L	1.0 U	0.15 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Toluene	µg/L	1.0 U	0.14 U	25 J	3.3 J	3.0 J	5.5 J	4.8 J	3.3 J	3.4 J	2.4 J
trans-1,2-Dichloroethene	µg/L	1.0 U	0.19 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
trans-1,3-Dichloropropene	µg/L	1.0 UJ	0.67 U	50 UJ	12 UJ	17 UJ	29 UJ	25 UJ	10 UJ	10 UJ	6.7 UJ
Trichloroethene	µg/L	0.46 J[b]	0.10 U	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	0.45 U	50 UJ	12 UJ	17 UJ	29 U	25 U	10 U	10 U	6.7 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	0.41 UJ	50 U	12 U	17 U	29 U	25 U	10 U	10 U	6.7 U
Vinyl chloride	µg/L	1.0 U	0.20 U	50 U	14[ab]	12 J[ab]	77[ab]	83[ab]	96[ab]	100[ab]	110[ab]
Xylenes (total)	µg/L	2.0 U	0.15 U	4000[b]	470[b]	650[b]	1400[b]	1100[b]	610[b]	630[b]	400[b]

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-224B**	**MW-224B**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-041310-GL-004**	**GW-38443-101618-AS-214**	**GW-38443-110509-DR-065**	**GW-38443-110509-DR-066**	**GW-38443-110509-DR-067**	**GW-38443-110609-DR-069**	**GW-38443-110609-DR-070**	**GW-38443-110609-DR-071**	**GW-38443-110609-DR-072**	**GW-38443-110609-DR-073**
Sample Date:		**4/13/2010**	**10/16/2018**	**11/5/2009**	**11/5/2009**	**11/5/2009**	**11/6/2009**	**11/6/2009**	**11/6/2009**	**11/6/2009**	**11/6/2009**
Sample Depth:		**100-105 ft BGS**	**100-105 ft BGS**	**61-66 ft BGS**	**66-71 ft BGS**	**71-76 ft BGS**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**
Sampling Company:		**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-	0.52 U	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	1.9 U	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	1.7 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	0.25 U	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	0.49 U	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	5.9 U	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	2.0 U	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	0.46 U	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	0.26 U	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	0.11 U	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	0.49 U	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	0.54 U	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	0.18 U	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	1.1 U	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	0.54 U	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	2.7 U	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	0.48 U	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	0.28 U	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	0.30 U	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	0.52 U	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	0.87 U	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	2.1 U	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	0.16 U	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	0.12 U	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	0.35 U	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	0.13 U	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	0.91 U	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	0.72 U	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	0.16 U	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	0.16 U	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	0.15 U	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	0.17 U	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	0.13 U	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	0.47 U	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	0.43 U	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	0.38 U	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	2.1 U	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	0.63 U	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	0.89 U	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	0.47 U	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	0.18 U	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	0.14 U	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	0.53 U	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	3.6 U	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	0.49 U	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	1.7 U	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	0.78 U	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	0.19	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	0.16 U	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	0.15 U	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	0.52 U	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-224B**	**MW-224B**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-041310-GL-004**	**GW-38443-101618-AS-214**	**GW-38443-110509-DR-065**	**GW-38443-110509-DR-066**	**GW-38443-110509-DR-067**	**GW-38443-110609-DR-069**	**GW-38443-110609-DR-070**	**GW-38443-110609-DR-071**	**GW-38443-110609-DR-072**	**GW-38443-110609-DR-073**
Sample Date:		**4/13/2010**	**10/16/2018**	**11/5/2009**	**11/5/2009**	**11/5/2009**	**11/6/2009**	**11/6/2009**	**11/6/2009**	**11/6/2009**	**11/6/2009**
Sample Depth:		**100-105 ft BGS**	**100-105 ft BGS**	**61-66 ft BGS**	**66-71 ft BGS**	**71-76 ft BGS**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**
		Duplicate								**Duplicate**	
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	1.7 U	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	0.38 U	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	0.13 U	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	0.31 U	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	0.10 U	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	0.49 U	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	0.24 U	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	0.42 U	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	3.0 U	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	0.16 U	-	-	-	-	-	-	-	-
Phenol	µg/L	-	0.12 U	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	0.17 U	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	260	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	34 U	-	-	-	-	-	-	-	-
Antimony	µg/L	-	0.57 U	-	-	-	-	-	-	-	-
Arsenic	µg/L	1.4 J[b]	7.5[b]	2.1 J[b]	81.7[ab]	35.6[ab]	108[ab]	92.8[ab]	4.2 J[b]	4.1 J[b]	4.1 J[b]
Arsenic (dissolved)	µg/L	-	6.9[b]	1.7 J[b]	6.8[b]	3.3 J[b]	3.8 J[b]	4.0 J[b]	2.8 J[b]	2.9 J[b]	2.8 J[b]
Barium	µg/L	-	160	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	150	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	0.59 J	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	0.41 J	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	0.21 J	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	0.21 U	-	-	-	-	-	-	-	-
Calcium	µg/L	-	97000	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	94000	-	-	-	-	-	-	-	-
Chromium	µg/L	-	1.2 J	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	0.98 U	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	0.25 J	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	0.19 U	-	-	-	-	-	-	-	-
Copper	µg/L	-	1.8 J	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	1.7 U	-	-	-	-	-	-	-	-
Iron	µg/L	-	2500[b]	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	1900[b]	-	-	-	-	-	-	-	-
Lead	µg/L	1.0 U	1.4	1.6	103[ab]	46.6[ab]	232[ab]	179[ab]	3.1	3.2	2.6
Lead (dissolved)	µg/L	-	0.45 U	0.22 J	4.0	0.22 J	0.46 J	2.2	1.0 U	1.0 U	1.0 U
Magnesium	µg/L	-	34000	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	33000	-	-	-	-	-	-	-	-
Manganese	µg/L	-	120[b]	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	100[b]	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	0.13 U	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	0.13 U	-	-	-	-	-	-	-	-
Nickel	µg/L	-	3.2	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	1.5 U	-	-	-	-	-	-	-	-
Potassium	µg/L	-	3000	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	3000	-	-	-	-	-	-	-	-
Selenium	µg/L	-	0.97 J	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-224B	MW-224B	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26
Sample ID:		GW-38443-041310-GL-004	GW-38443-101618-AS-214	GW-38443-110509-DR-065	GW-38443-110509-DR-066	GW-38443-110509-DR-067	GW-38443-110609-DR-069	GW-38443-110609-DR-070	GW-38443-110609-DR-071	GW-38443-110609-DR-072	GW-38443-110609-DR-073
Sample Date:		4/13/2010	10/16/2018	11/5/2009	11/5/2009	11/5/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
Sample Depth:		100-105 ft BGS	100-105 ft BGS	61-66 ft BGS	66-71 ft BGS	71-76 ft BGS	76-81 ft BGS	81-86 ft BGS	86-91 ft BGS	86-91 ft BGS	91-96 ft BGS
		Duplicate								Duplicate	
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	0.89 U	-	-	-	-	-	-	-	-
Silver	µg/L	-	23[b]	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	3.2	-	-	-	-	-	-	-	-
Sodium	µg/L	-	33000	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	33000	-	-	-	-	-	-	-	-
Thallium	µg/L	-	0.21 J[b]	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	0.20 U	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	0.82 U	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	0.82 U	-	-	-	-	-	-	-	-
Zinc	µg/L	-	15 U	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	15 U	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	0.053 U	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	0.054 U	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	0.070 U	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	0.072 U	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	0.048 U	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	0.038 U	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	0.044 U	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	0.025 U	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	0.020 U	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	0.023 U	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	0.011 U	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	0.0095 U	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	0.015 U	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	0.022 U	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	0.020 U	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	0.011 U	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	0.018 U	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	0.011 U	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	0.018 U	-	-	-	-	-	-	-	-
Endrin	µg/L	-	0.012 U	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	0.022 U	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	0.019 U	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	0.012 U	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	0.024 U	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	0.016 U	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	0.012 U	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	0.022 U	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	0.28 U	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	0.57 U	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	0.43 U	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	2.2 U	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		MW-224B	MW-224B	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26
Sample ID:		GW-38443-041310-GL-004	GW-38443-101618-AS-214	GW-38443-110509-DR-065	GW-38443-110509-DR-066	GW-38443-110509-DR-067	GW-38443-110609-DR-069	GW-38443-110609-DR-070	GW-38443-110609-DR-071	GW-38443-110609-DR-072	GW-38443-110609-DR-073
Sample Date:		4/13/2010	10/16/2018	11/5/2009	11/5/2009	11/5/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
Sample Depth:		100-105 ft BGS Duplicate	100-105 ft BGS	61-66 ft BGS	66-71 ft BGS	71-76 ft BGS	76-81 ft BGS	81-86 ft BGS	86-91 ft BGS	86-91 ft BGS Duplicate	91-96 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	63000	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	6 U	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	14 U	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	14 U	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	62000	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26
Sample ID:		GW-38443-110609-DR-074	GW-38443-110609-DR-075	GW-38443-110809-DR-076	GW-38443-110809-DR-078	GW-38443-110909-DR-079	GW-38443-110909-DR-080	GW-38443-110909-DR-081	GW-38443-111009-DR-082	GW-38443-111009-DR-083	GW-38443-111009-DR-084
Sample Date:		11/6/2009	11/6/2009	11/8/2009	11/8/2009	11/9/2009	11/9/2009	11/9/2009	11/10/2009	11/10/2009	11/10/2009
Sample Depth:		96-101 ft BGS	101-106 ft BGS	106-116 ft BGS	116-126 ft BGS	126-136 ft BGS	136-146 ft BGS	146-156 ft BGS	156-166 ft BGS	156-166 ft BGS Duplicate	166-176 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,1,2,2-Tetrachloroethane	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ	2.5 UJ	3.3 UJ	2.0 UJ
1,1,2-Trichloroethane	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,1-Dichloroethane	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,1-Dichloroethene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,2,4-Trichlorobenzene	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ	2.5 U	3.3 U	2.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	6.7 U	4.0 U	5.0 U	20 U	40 U	12 U	8.0 U	5.0 U	6.7 U	4.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,2-Dichlorobenzene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,2-Dichloroethane	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,2-Dichloropropane	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,3-Dichlorobenzene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
1,4-Dichlorobenzene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	33 U	20 U	25 UJ	100 U	200 U	62 U	40 U	25 U	33 U	20 U
2-Hexanone	µg/L	33 U	20 U	25 UJ	100 U	200 U	62 U	40 U	25 U	33 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	33 U	20 U	25 UJ	100 U	200 U	62 U	40 U	25 U	33 U	20 U
Acetone	µg/L	9.4 J	14 J	6.2 J	100 U	200 U	62 U	40 U	25 U	33 U	20 U
Benzene	µg/L	14[ab]	15[ab]	51[ab]	250[ab]	360[ab]	27[ab]	3.1 J[b]	2.5 U	3.3 U	1.0 J[b]
Bromodichloromethane	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ	2.5 U	3.3 U	2.0 U
Bromoform	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 U	20 U	6.2 U	4.0 U	2.5 UJ	3.3 UJ	2.0 UJ
Bromomethane (Methyl bromide)	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Carbon disulfide	µg/L	3.3 U	2.0 U	0.86 J	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Carbon tetrachloride	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Chlorobenzene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Chloroethane	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ	2.5 U	3.3 U	2.0 U
Chloroform (Trichloromethane)	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Chloromethane (Methyl chloride)	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
cis-1,2-Dichloroethene	µg/L	13[b]	16[b]	2.5 U	31[b]	120[ab]	12[b]	1.8 J	2.5 U	3.3 U	1.0 J
cis-1,3-Dichloropropene	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ	2.5 U	3.3 U	2.0 U
Cyclohexane	µg/L	35	40	2.6	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	0.35 J
Dibromochloromethane	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ	2.5 UJ	3.3 UJ	2.0 UJ
Dichlorodifluoromethane (CFC-12)	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Ethylbenzene	µg/L	27[b]	19[b]	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Isopropyl benzene	µg/L	4.8	3.7	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	33 U	20 U	25 U	100 U	200 U	62 U	40 U	25 U	33 U	20 U
Methyl cyclohexane	µg/L	10	10	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	17 U	10 U	12 U	50 U	100 U	31 U	20 U	12 U	17 U	10 U
Methylene chloride	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Tetrachloroethene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Toluene	µg/L	2.2 J	2.2	9.4	4.6 J	20 U	2.3 J	1.7 J	1.2 J	1.2 J	1.2 J
trans-1,2-Dichloroethene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
trans-1,3-Dichloropropene	µg/L	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ	2.5 U	3.3 U	2.0 U
Trichloroethene	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Trichlorofluoromethane (CFC-11)	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U	2.5 U	3.3 U	2.0 U
Vinyl chloride	µg/L	42[ab]	58[ab]	2.5 UJ	66[ab]	260[ab]	140[ab]	87[ab]	65[ab]	63[ab]	44[ab]
Xylenes (total)	µg/L	160[b]	120[b]	2.9 J	20 U	40 U	12 U	8.0 U	5.0 U	6.7 U	4.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-110609-DR-074**	**GW-38443-110609-DR-075**	**GW-38443-110809-DR-076**	**GW-38443-110809-DR-078**	**GW-38443-110909-DR-079**	**GW-38443-110909-DR-080**	**GW-38443-110909-DR-081**	**GW-38443-111009-DR-082**	**GW-38443-111009-DR-083**	**GW-38443-111009-DR-084**
Sample Date:		**11/6/2009**	**11/6/2009**	**11/8/2009**	**11/8/2009**	**11/9/2009**	**11/9/2009**	**11/9/2009**	**11/10/2009**	**11/10/2009**	**11/10/2009**
Sample Depth:		**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-110609-DR-074**	**GW-38443-110609-DR-075**	**GW-38443-110809-DR-076**	**GW-38443-110809-DR-078**	**GW-38443-110909-DR-079**	**GW-38443-110909-DR-080**	**GW-38443-110909-DR-081**	**GW-38443-111009-DR-082**	**GW-38443-111009-DR-083**	**GW-38443-111009-DR-084**
Sample Date:		**11/6/2009**	**11/6/2009**	**11/8/2009**	**11/8/2009**	**11/9/2009**	**11/9/2009**	**11/9/2009**	**11/10/2009**	**11/10/2009**	**11/10/2009**
Sample Depth:		**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	4.8 J[b]	5.6[b]	1.2 J[b]	3.3 J[b]	1.5 J[b]	2.8 J[b]	9.0[b]	3.9 J[b]	3.9 J[b]	30.9[ab]
Arsenic (dissolved)	µg/L	1.2 J[b]	0.89 J[b]	0.49 J[b]	0.64 J[b]	1.1 J[b]	0.57 J[b]	1.1 J[b]	1.8 J[b]	1.7 J[b]	1.7 J[b]
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	7.7	8.9	1.0 U	5.5	0.61 J	3.6	38.3[ab]	9.4 J	9.9 J	66.2 J[ab]
Lead (dissolved)	µg/L	0.38 J	0.42 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-110609-DR-074**	**GW-38443-110609-DR-075**	**GW-38443-110809-DR-076**	**GW-38443-110809-DR-078**	**GW-38443-110909-DR-079**	**GW-38443-110909-DR-080**	**GW-38443-110909-DR-081**	**GW-38443-111009-DR-082**	**GW-38443-111009-DR-083**	**GW-38443-111009-DR-084**
Sample Date:		**11/6/2009**	**11/6/2009**	**11/8/2009**	**11/8/2009**	**11/9/2009**	**11/9/2009**	**11/9/2009**	**11/10/2009**	**11/10/2009**	**11/10/2009**
Sample Depth:		**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-110609-DR-074**	**GW-38443-110609-DR-075**	**GW-38443-110809-DR-076**	**GW-38443-110809-DR-078**	**GW-38443-110909-DR-079**	**GW-38443-110909-DR-080**	**GW-38443-110909-DR-081**	**GW-38443-111009-DR-082**	**GW-38443-111009-DR-083**	**GW-38443-111009-DR-084**
Sample Date:		**11/6/2009**	**11/6/2009**	**11/8/2009**	**11/8/2009**	**11/9/2009**	**11/9/2009**	**11/9/2009**	**11/10/2009**	**11/10/2009**	**11/10/2009**
Sample Depth:		**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-26	VAS-26	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27
Sample ID:		GW-38443-111009-DR-085	GW-38443-111109-DR-086	GW-38443-111209-DR-090	GW-38443-111609-DR-091	GW-38443-111609-DR-092	GW-38443-111709-DR-093	GW-38443-111709-DR-094	GW-38443-111709-DR-095	GW-38443-111709-DR-096	GW-38443-111809-DR-097
Sample Date:		11/10/2009	11/11/2009	11/12/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/18/2009
Sample Depth:		176-186 ft BGS	186-196 ft BGS	41-46 ft BGS	71-76 ft BGS	71-76 ft BGS Duplicate	76-81 ft BGS	81-86 ft BGS	86-91 ft BGS	91-96 ft BGS	96-101 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,1,2,2-Tetrachloroethane	µg/L	1.7 UJ	1.0 U	1.0 UJ	9.1 UJ	9.1 UJ	7.1 UJ	12 UJ	11 UJ	17 UJ	2.5 U
1,1,2-Trichloroethane	µg/L	1.7 U	1.0 U	1.0 UJ	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,1-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	0.38 J
1,1-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	0.88 J
1,2,4-Trichlorobenzene	µg/L	1.7 U	1.0 U	1.0 UJ	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	3.3 U	2.0 U	2.0 UJ	18 U	18 U	14 U	25 U	22 U	33 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,2-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,2-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,2-Dichloropropane	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,3-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
1,4-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	17 U	10 U	10 UJ	91 U	91 U	71 U	120 U	110 U	170 U	25 U
2-Hexanone	µg/L	17 U	10 U	10 UJ	91 U	91 U	71 U	120 U	110 U	170 UJ	25 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	17 U	10 U	10 UJ	91 U	91 U	71 U	120 U	110 U	170 UJ	25 U
Acetone	µg/L	17 U	10 U	10 U	91 U	91 U	71 U	120 U	110 U	170 U	25 U
Benzene	µg/L	0.69 J[b]	1.0[b]	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	0.35 J
Bromodichloromethane	µg/L	1.7 U	1.0 U	1.0 UJ	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Bromoform	µg/L	1.7 UJ	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 UJ
Bromomethane (Methyl bromide)	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Carbon disulfide	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Carbon tetrachloride	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Chlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Chloroethane	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Chloroform (Trichloromethane)	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	0.91 J[b]
Chloromethane (Methyl chloride)	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
cis-1,2-Dichloroethene	µg/L	0.88 J	0.34 J	0.38 J	9.1 U	9.1 U	210 J[ab]	360 J[ab]	330 J[ab]	470 J[ab]	150[ab]
cis-1,3-Dichloropropene	µg/L	1.7 U	1.0 U	1.0 UJ	9.1 UJ	9.1 UJ	7.1 UJ	12 UJ	11 UJ	17 UJ	2.5 UJ
Cyclohexane	µg/L	0.30 J	0.55 J	0.15 J	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Dibromochloromethane	µg/L	1.7 UJ	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.7 U	1.0 U	1.0 UJ	9.1 UJ	9.1 UJ	7.1 UJ	12 UJ	11 UJ	17 UJ	2.5 UJ
Ethylbenzene	µg/L	1.7 U	0.30 J	1.0 UJ	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Isopropyl benzene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	17 U	10 U	10 UJ	91 U	91 U	71 U	120 U	110 U	170 UJ	25 U
Methyl cyclohexane	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Methyl tert butyl ether (MTBE)	µg/L	8.4 U	5.0 U	5.0 U	45 U	45 U	36 U	62 U	56 U	83 U	12 U
Methylene chloride	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.7 U	1.0 U	1.0 UJ	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Tetrachloroethene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Toluene	µg/L	1.5 J	1.7	6.7	9.1 U	9.1 U	3.5 J	9.0 J	12	4.9 J	5.6
trans-1,2-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	1.4 J	12 U	2.1 J	17 U	0.83 J
trans-1,3-Dichloropropene	µg/L	1.7 U	1.0 U	1.0 UJ	9.1 UJ	9.1 UJ	7.1 UJ	12 UJ	11 UJ	17 UJ	2.5 UJ
Trichloroethene	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Trichlorofluoromethane (CFC-11)	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.7 U	1.0 U	1.0 U	9.1 U	9.1 U	7.1 U	12 U	11 U	17 U	2.5 U
Vinyl chloride	µg/L	35[ab]	34 J[ab]	1.0 U	230[ab]	250[ab]	180[ab]	140[ab]	75[ab]	82 UJ	32[ab]
Xylenes (total)	µg/L	3.3 U	0.95 J	2.0 UJ	18 U	18 U	14 U	25 U	22 U	33 U	5.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-26	VAS-26	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27	VAS-27
Sample ID:		GW-38443-111009-DR-085	GW-38443-111109-DR-086	GW-38443-111209-DR-090	GW-38443-111609-DR-091	GW-38443-111609-DR-092	GW-38443-111709-DR-093	GW-38443-111709-DR-094	GW-38443-111709-DR-095	GW-38443-111709-DR-096	GW-38443-111809-DR-097
Sample Date:		11/10/2009	11/11/2009	11/12/2009	11/16/2009	11/16/2009	11/17/2009	11/17/2009	11/17/2009	11/17/2009	11/18/2009
Sample Depth:		176-186 ft BGS	186-196 ft BGS	41-46 ft BGS	71-76 ft BGS	71-76 ft BGS Duplicate	76-81 ft BGS	81-86 ft BGS	86-91 ft BGS	91-96 ft BGS	96-101 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-26**	**VAS-26**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**
Sample ID:		**GW-38443-111009-DR-085**	**GW-38443-111109-DR-086**	**GW-38443-111209-DR-090**	**GW-38443-111609-DR-091**	**GW-38443-111609-DR-092**	**GW-38443-111709-DR-093**	**GW-38443-111709-DR-094**	**GW-38443-111709-DR-095**	**GW-38443-111709-DR-096**	**GW-38443-111809-DR-097**
Sample Date:		**11/10/2009**	**11/11/2009**	**11/12/2009**	**11/16/2009**	**11/16/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/18/2009**
Sample Depth:		**176-186 ft BGS**	**186-196 ft BGS**	**41-46 ft BGS**	**71-76 ft BGS**	**71-76 ft BGS Duplicate**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**96-101 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**34.2[ab]**	**11.8[ab]**	**96.3[ab]**	**221[ab]**	**208[ab]**	**163[ab]**	**27.7[ab]**	**133[ab]**	**42.2[ab]**	**173[ab]**
Arsenic (dissolved)	µg/L	**4.7 J[b]**	**2.0 J[b]**	**10.7[ab]**	**8.5[b]**	**8.7[b]**	**4.9 J[b]**	**4.7 J[b]**	**3.2 J[b]**	**4.2 J[b]**	**1.2 J[b]**
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	**42.6 J[ab]**	13.7 U	**199[ab]**	**340[ab]**	**320[ab]**	**329[ab]**	**43.7[ab]**	**327[ab]**	**104[ab]**	**326[ab]**
Lead (dissolved)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6	1.8	1.0 U
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-26**	**VAS-26**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**
Sample ID:		**GW-38443-111009-DR-085**	**GW-38443-111109-DR-086**	**GW-38443-111209-DR-090**	**GW-38443-111609-DR-091**	**GW-38443-111609-DR-092**	**GW-38443-111709-DR-093**	**GW-38443-111709-DR-094**	**GW-38443-111709-DR-095**	**GW-38443-111709-DR-096**	**GW-38443-111809-DR-097**
Sample Date:		**11/10/2009**	**11/11/2009**	**11/12/2009**	**11/16/2009**	**11/16/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/18/2009**
Sample Depth:		**176-186 ft BGS**	**186-196 ft BGS**	**41-46 ft BGS**	**71-76 ft BGS**	**71-76 ft BGS Duplicate**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**96-101 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-26**	**VAS-26**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**
Sample ID:		**GW-38443-111009-DR-085**	**GW-38443-111109-DR-086**	**GW-38443-111209-DR-090**	**GW-38443-111609-DR-091**	**GW-38443-111609-DR-092**	**GW-38443-111709-DR-093**	**GW-38443-111709-DR-094**	**GW-38443-111709-DR-095**	**GW-38443-111709-DR-096**	**GW-38443-111809-DR-097**
Sample Date:		**11/10/2009**	**11/11/2009**	**11/12/2009**	**11/16/2009**	**11/16/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/18/2009**
Sample Depth:		**176-186 ft BGS**	**186-196 ft BGS**	**41-46 ft BGS**	**71-76 ft BGS**	**71-76 ft BGS Duplicate**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**96-101 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**
Sample ID:		**GW-38443-111909-DR-102**	**GW-38443-111909-DR-103**	**GW-38443-111909-DR-104**	**GW-38443-112009-DR-105**	**GW-38443-112009-DR-106**	**GW-38443-112009-DR-107**	**GW-38443-112009-DR-109**	**GW-38443-112009-DR-110**	**GW-38443-112009-DR-111**	**GW-38443-112109-DR-112**
Sample Date:		**11/19/2009**	**11/19/2009**	**11/19/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/21/2009**
Sample Depth:		**41-46 ft BGS**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**91-96 ft BGS Duplicate**	**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	**0.48 J[b]**	**0.26 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.72 J	**17[b]**	**17[b]**	**28[b]**	**26[b]**	**27[b]**	**19[b]**	**27[b]**	**28[b]**	**34[b]**
cis-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Cyclohexane	µg/L	0.37 J	0.22 J	0.13 J	0.16 J	0.15 J	0.17 J	1.0 U	0.14 J	0.19 J	0.13 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	12	0.89 J	1.5	1.2 U	1.9 U	1.9 U	1.0 U	1.8 U	1.8 U	0.74 J
trans-1,2-Dichloroethene	µg/L	1.0 U	0.50 J	0.49 J	0.69 J	0.63 J	0.62 J	0.33 J	0.35 J	0.83 J	1.7
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	µg/L	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	**0.44 J[b]**	**0.47 J[b]**	**0.81 J[b]**	**0.76 J[b]**	**0.73 J[b]**	**1.5[b]**	**2.5[ab]**	**0.47 J[b]**	1.0 U
Xylenes (total)	µg/L	0.71 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28
Sample ID:		GW-38443-111909-DR-102	GW-38443-111909-DR-103	GW-38443-111909-DR-104	GW-38443-112009-DR-105	GW-38443-112009-DR-106	GW-38443-112009-DR-107	GW-38443-112009-DR-109	GW-38443-112009-DR-110	GW-38443-112009-DR-111	GW-38443-112109-DR-112
Sample Date:		11/19/2009	11/19/2009	11/19/2009	11/20/2009	11/20/2009	11/20/2009	11/20/2009	11/20/2009	11/20/2009	11/21/2009
Sample Depth:		41-46 ft BGS	76-81 ft BGS	81-86 ft BGS	86-91 ft BGS	91-96 ft BGS	91-96 ft BGS Duplicate	96-101 ft BGS	101-106 ft BGS	106-116 ft BGS	116-126 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**
Sample ID:		**GW-38443-111909-DR-102**	**GW-38443-111909-DR-103**	**GW-38443-111909-DR-104**	**GW-38443-112009-DR-105**	**GW-38443-112009-DR-106**	**GW-38443-112009-DR-107**	**GW-38443-112009-DR-109**	**GW-38443-112009-DR-110**	**GW-38443-112009-DR-111**	**GW-38443-112109-DR-112**
Sample Date:		**11/19/2009**	**11/19/2009**	**11/19/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/21/2009**
Sample Depth:		**41-46 ft BGS**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**91-96 ft BGS Duplicate**	**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**112[ab]**	**96.0[ab]**	**24.1[ab]**	**70.7[ab]**	**46.4[ab]**	**47.1[ab]**	**163[ab]**	**43.8[ab]**	**98.8[ab]**	**31.9[ab]**
Arsenic (dissolved)	µg/L	**0.64 J[b]**	**4.7 J[b]**	**4.8 J[b]**	**5.0[b]**	**5.5[b]**	**4.5 J[b]**	**3.0 J[b]**	**3.0 J[b]**	**3.3 J[b]**	**3.8 J[b]**
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	**120[ab]**	**181[ab]**	**33.1[ab]**	**138[ab]**	**84.9[ab]**	**82.6[ab]**	**392[ab]**	**87.9[ab]**	**175[ab]**	**59.2[ab]**
Lead (dissolved)	µg/L	1.0 U	1.2	0.21 J	1.5	2.9 J	1.3 J	0.23 J	1.0 U	2.8	0.49 J
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**
Sample ID:		**GW-38443-111909-DR-102**	**GW-38443-111909-DR-103**	**GW-38443-111909-DR-104**	**GW-38443-112009-DR-105**	**GW-38443-112009-DR-106**	**GW-38443-112009-DR-107**	**GW-38443-112009-DR-109**	**GW-38443-112009-DR-110**	**GW-38443-112009-DR-111**	**GW-38443-112109-DR-112**
Sample Date:		**11/19/2009**	**11/19/2009**	**11/19/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/21/2009**
Sample Depth:		**41-46 ft BGS**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**91-96 ft BGS Duplicate**	**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**
Sample ID:		**GW-38443-111909-DR-102**	**GW-38443-111909-DR-103**	**GW-38443-111909-DR-104**	**GW-38443-112009-DR-105**	**GW-38443-112009-DR-106**	**GW-38443-112009-DR-107**	**GW-38443-112009-DR-109**	**GW-38443-112009-DR-110**	**GW-38443-112009-DR-111**	**GW-38443-112109-DR-112**
Sample Date:		**11/19/2009**	**11/19/2009**	**11/19/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/21/2009**
Sample Depth:		**41-46 ft BGS**	**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**91-96 ft BGS Duplicate**	**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-28	VAS-29	VAS-29
Sample ID:		GW-38443-112109-DR-113	GW-38443-112109-DR-114	GW-38443-112209-DR-115	GW-38443-112209-DR-116	GW-38443-112209-DR-117	GW-38443-112209-DR-118	GW-38443-112209-DR-119	GW-38443-112309-DR-120	GW-38443-030310-DR-002	GW-38443-030310-DR-003
Sample Date:		11/21/2009	11/21/2009	11/22/2009	11/22/2009	11/22/2009	11/22/2009	11/22/2009	11/23/2009	3/3/2010	3/3/2010
Sample Depth:		126-136 ft BGS	136-146 ft BGS	146-156 ft BGS	156-166 ft BGS	156-166 ft BGS Duplicate	166-176 ft BGS	176-186 ft BGS	186-196 ft BGS	56-61 ft BGS	86-96 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	9.1 UJ
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	18 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	91 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	91 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	91 UJ
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	91 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	**0.75 J[b]**	**0.97 J[b]**	**0.88 J[b]**	1.0 U	9.1 U
Bromodichloromethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Bromoform	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Chloroform (Trichloromethane)	µg/L	1.0 U	**0.27 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
cis-1,2-Dichloroethene	µg/L	**28[b]**	**7.1[b]**	1.9	1.4	1.6	0.35 J	0.36 J	0.36 J	1.7	**250[ab]**
cis-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	9.1 U
Cyclohexane	µg/L	0.14 J	1.0 U	1.0 U	0.14 J	1.0 U	0.26 J	0.38 J	0.26 J	1.0 U	9.1 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	9.1 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	91 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	9.1 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	45 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.53 J	1.0 UJ	0.54 J	1.0 U	9.1 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Toluene	µg/L	0.89 J	2.3	0.78 J	0.91 J	0.73 J	1.4	1.7	1.1	4.2	2.8 J
trans-1,2-Dichloroethene	µg/L	0.91 J	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
trans-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.41 J[b]**	**96[ab]**
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.62 J	2.0 U	2.0 U	18 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-112109-DR-113**	**GW-38443-112109-DR-114**	**GW-38443-112209-DR-115**	**GW-38443-112209-DR-116**	**GW-38443-112209-DR-117**	**GW-38443-112209-DR-118**	**GW-38443-112209-DR-119**	**GW-38443-112309-DR-120**	**GW-38443-030310-DR-002**	**GW-38443-030310-DR-003**
Sample Date:		**11/21/2009**	**11/21/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/23/2009**	**3/3/2010**	**3/3/2010**
Sample Depth:		**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**	**176-186 ft BGS**	**186-196 ft BGS**	**56-61 ft BGS**	**86-96 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-112109-DR-113**	**GW-38443-112109-DR-114**	**GW-38443-112209-DR-115**	**GW-38443-112209-DR-116**	**GW-38443-112209-DR-117**	**GW-38443-112209-DR-118**	**GW-38443-112209-DR-119**	**GW-38443-112309-DR-120**	**GW-38443-030310-DR-002**	**GW-38443-030310-DR-003**
Sample Date:		**11/21/2009**	**11/21/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/23/2009**	**3/3/2010**	**3/3/2010**
Sample Depth:		**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**	**176-186 ft BGS**	**186-196 ft BGS**	**56-61 ft BGS**	**86-96 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**66.4[ab]**	**15.1[ab]**	**10.9[ab]**	**16.3[ab]**	**17.8[ab]**	**87.8[ab]**	**47.8[ab]**	**41.3[ab]**	**13.8[ab]**	**73.3[ab]**
Arsenic (dissolved)	µg/L	**4.0 J[b]**	**2.8 J[b]**	**1.7 J[b]**	**2.9 J[b]**	**3.0 J[b]**	**2.1 J[b]**	**1.6 J[b]**	**2.5 J[b]**	**4.3 J[b]**	**2.9 J[b]**
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	**162[ab]**	**26.8[ab]**	**16.7[ab]**	**30.5[ab]**	**32.2[ab]**	**154[ab]**	**122[ab]**	**103[ab]**	**17.8[ab]**	**128[ab]**
Lead (dissolved)	µg/L	2.7	0.39 J	1.0 U	0.56 J	0.40 J	1.0 U	0.68 J	2.3	2.8	0.19 J
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-112109-DR-113**	**GW-38443-112109-DR-114**	**GW-38443-112209-DR-115**	**GW-38443-112209-DR-116**	**GW-38443-112209-DR-117**	**GW-38443-112209-DR-118**	**GW-38443-112209-DR-119**	**GW-38443-112309-DR-120**	**GW-38443-030310-DR-002**	**GW-38443-030310-DR-003**
Sample Date:		**11/21/2009**	**11/21/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/23/2009**	**3/3/2010**	**3/3/2010**
Sample Depth:		**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**	**176-186 ft BGS**	**186-196 ft BGS**	**56-61 ft BGS**	**86-96 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-112109-DR-113**	**GW-38443-112109-DR-114**	**GW-38443-112209-DR-115**	**GW-38443-112209-DR-116**	**GW-38443-112209-DR-117**	**GW-38443-112209-DR-118**	**GW-38443-112209-DR-119**	**GW-38443-112309-DR-120**	**GW-38443-030310-DR-002**	**GW-38443-030310-DR-003**
Sample Date:		**11/21/2009**	**11/21/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/23/2009**	**3/3/2010**	**3/3/2010**
Sample Depth:		**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**	**176-186 ft BGS**	**186-196 ft BGS**	**56-61 ft BGS**	**86-96 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-030310-DR-004**	**GW-38443-030410-DR-005**	**GW-38443-030410-DR-006**	**GW-38443-030410-DR-007**	**GW-38443-030410-DR-008**	**GW-38443-030410-DR-009**	**GW-38443-030510-DR-010**	**GW-38443-030510-DR-011**	**GW-38443-030510-DR-012**	**GW-38443-030610-DR-013**
Sample Date:		**3/3/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/5/2010**	**3/5/2010**	**3/5/2010**	**3/6/2010**
Sample Depth:		**96-106 ft BGS**	**106-116 ft BGS**	**106-116 ft BGS Duplicate**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**166-176 ft BGS**	**176-186 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	12 UJ	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
1,1,2-Trichloroethane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	12 U	8.0 U	8.0 U	1.1 J	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	25 U	16 U	16 U	11 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	120 U	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	120 U	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	120 UJ	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 UJ
Acetone	µg/L	120 U	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.58 J[b]**
Bromodichloromethane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	**0.22 J[b]**	1.0 U
Bromoform	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	12 U	8.0 UJ	8.0 UJ	5.7 UJ	2.5 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Carbon disulfide	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	**0.34 J[b]**	**0.32 J[b]**	**0.70 J[b]**	**0.57 J[b]**	**0.85 J[b]**
Chloromethane (Methyl chloride)	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	**350[ab]**	**210[ab]**	**220[ab]**	**160[ab]**	**74[ab]**	**19[b]**	**4.3[b]**	1.5	0.25 J	1.0 U
cis-1,3-Dichloropropene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Cyclohexane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	0.26 J	0.26 J	0.40 J
Dibromochloromethane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	12 U	8.0 UJ	8.0 UJ	5.7 UJ	2.5 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Ethylbenzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 J
Isopropyl benzene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	120 U	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	62 U	40 U	40 U	29 U	12 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	12 U	8.0 U	8.0 U	5.7 U	0.64 J	0.58 J	7.5	4.8	5.4	3.1
trans-1,2-Dichloroethene	µg/L	12 U	2.4 J	2.8 J	1.4 J	0.62 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Trichloroethene	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	12 U	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**140[ab]**	**64[ab]**	**63[ab]**	**38[ab]**	**19[ab]**	**11[ab]**	**1.9[b]**	**0.75 J[b]**	1.0 U	1.0 U
Xylenes (total)	µg/L	25 U	16 U	16 U	11 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.47 J

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-030310-DR-004**	**GW-38443-030410-DR-005**	**GW-38443-030410-DR-006**	**GW-38443-030410-DR-007**	**GW-38443-030410-DR-008**	**GW-38443-030410-DR-009**	**GW-38443-030510-DR-010**	**GW-38443-030510-DR-011**	**GW-38443-030510-DR-012**	**GW-38443-030610-DR-013**
Sample Date:		**3/3/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/5/2010**	**3/5/2010**	**3/5/2010**	**3/6/2010**
Sample Depth:		**96-106 ft BGS**	**106-116 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**166-176 ft BGS**	**176-186 ft BGS**
				Duplicate							
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-030310-DR-004**	**GW-38443-030410-DR-005**	**GW-38443-030410-DR-006**	**GW-38443-030410-DR-007**	**GW-38443-030410-DR-008**	**GW-38443-030410-DR-009**	**GW-38443-030510-DR-010**	**GW-38443-030510-DR-011**	**GW-38443-030510-DR-012**	**GW-38443-030610-DR-013**
Sample Date:		**3/3/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/5/2010**	**3/5/2010**	**3/5/2010**	**3/6/2010**
Sample Depth:		**96-106 ft BGS**	**106-116 ft BGS**	**106-116 ft BGS Duplicate**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**166-176 ft BGS**	**176-186 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	**10.1[ab]**	**2.6 J[b]**	**2.3 J[b]**	**1.8 J[b]**	**7.5[b]**	**1.4 J[b]**	-	-	-	-
Arsenic (dissolved)	µg/L	**4.2 J[b]**	**2.0 J[b]**	**2.0 J[b]**	**1.6 J[b]**	**1.0 J[b]**	**0.98 J[b]**	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	**16.8[ab]**	1.9	1.9	1.0 U	13.5	1.5	-	-	-	-
Lead (dissolved)	µg/L	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29
Sample ID:		GW-38443-030310-DR-004	GW-38443-030410-DR-005	GW-38443-030410-DR-006	GW-38443-030410-DR-007	GW-38443-030410-DR-008	GW-38443-030410-DR-009	GW-38443-030510-DR-010	GW-38443-030510-DR-011	GW-38443-030510-DR-012	GW-38443-030610-DR-013
Sample Date:		3/3/2010	3/4/2010	3/4/2010	3/4/2010	3/4/2010	3/4/2010	3/5/2010	3/5/2010	3/5/2010	3/6/2010
Sample Depth:		96-106 ft BGS	106-116 ft BGS	106-116 ft BGS Duplicate	116-126 ft BGS	126-136 ft BGS	136-146 ft BGS	146-156 ft BGS	156-166 ft BGS	166-176 ft BGS	176-186 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-030310-DR-004**	**GW-38443-030410-DR-005**	**GW-38443-030410-DR-006**	**GW-38443-030410-DR-007**	**GW-38443-030410-DR-008**	**GW-38443-030410-DR-009**	**GW-38443-030510-DR-010**	**GW-38443-030510-DR-011**	**GW-38443-030510-DR-012**	**GW-38443-030610-DR-013**
Sample Date:		**3/3/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/4/2010**	**3/5/2010**	**3/5/2010**	**3/5/2010**	**3/6/2010**
Sample Depth:		**96-106 ft BGS**	**106-116 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**	**156-166 ft BGS**	**166-176 ft BGS**	**176-186 ft BGS**
				Duplicate							
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-29	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30
Sample ID:		GW-38443-030610-DR-014	GW-38443-030710-DR-021	GW-38443-030710-DR-022	GW-38443-030810-DR-023	GW-38443-030810-DR-024	GW-38443-030810-DR-025	GW-38443-030810-DR-026	GW-38443-030910-DR-027	GW-38443-030910-DR-028	GW-38443-030910-DR-029
Sample Date:		3/6/2010	3/7/2010	3/7/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/9/2010	3/9/2010	3/9/2010
Sample Depth:		176-186 ft BGS	66-76 ft BGS	76-86 ft BGS	91-96 ft BGS	96-106 ft BGS	106-116 ft BGS	116-126 ft BGS	126-136 ft BGS	136-146 ft BGS	146-156 ft BGS
		Duplicate									
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	0.59 J	1.3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	0.25 J	1.3	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	0.96 J	10 U	10 U	10 U	10 U	10 U	0.63 J	0.59 J	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	0.63 J[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.47 J[b]
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J[b]	0.21 J[b]	1.0 U
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane (Methyl bromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	0.94 J[b]	0.45 J[b]	0.30 J[b]	1.0 U	1.0 U	0.34 J[b]	0.29 J[b]	1.2[b]	0.51 J[b]	0.42 J[b]
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.27 J	0.55 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.36 J	0.15 J	0.16 J	1.0 U	1.0 U	0.15 J	1.0 U	0.14 J	0.16 J	0.27 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	0.21 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Toluene	µg/L	3.2	6.1	5.1	0.81 J	1.0 U	0.82 J	0.37 J	0.97 J	7.2	3.4
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	4.8[b]	6.9[ab]	0.65 J[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	0.47 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-030610-DR-014**	**GW-38443-030710-DR-021**	**GW-38443-030710-DR-022**	**GW-38443-030810-DR-023**	**GW-38443-030810-DR-024**	**GW-38443-030810-DR-025**	**GW-38443-030810-DR-026**	**GW-38443-030910-DR-027**	**GW-38443-030910-DR-028**	**GW-38443-030910-DR-029**
Sample Date:		**3/6/2010**	**3/7/2010**	**3/7/2010**	**3/8/2010**	**3/8/2010**	**3/8/2010**	**3/8/2010**	**3/9/2010**	**3/9/2010**	**3/9/2010**
Sample Depth:		**176-186 ft BGS**	**66-76 ft BGS**	**76-86 ft BGS**	**91-96 ft BGS**	**96-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**
		Duplicate									
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-29	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30
Sample ID:		GW-38443-030610-DR-014	GW-38443-030710-DR-021	GW-38443-030710-DR-022	GW-38443-030810-DR-023	GW-38443-030810-DR-024	GW-38443-030810-DR-025	GW-38443-030810-DR-026	GW-38443-030910-DR-027	GW-38443-030910-DR-028	GW-38443-030910-DR-029
Sample Date:		3/6/2010	3/7/2010	3/7/2010	3/8/2010	3/8/2010	3/8/2010	3/8/2010	3/9/2010	3/9/2010	3/9/2010
Sample Depth:		176-186 ft BGS	66-76 ft BGS	76-86 ft BGS	91-96 ft BGS	96-106 ft BGS	106-116 ft BGS	116-126 ft BGS	126-136 ft BGS	136-146 ft BGS	146-156 ft BGS
		Duplicate									
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	-	-	-	-	-	-
Aluminum (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony	µg/L	-	-	-	-	-	-	-	-	-	-
Antimony (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic	µg/L	-	-	-	-	-	-	-	-	-	-
Arsenic (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Barium	µg/L	-	-	-	-	-	-	-	-	-	-
Barium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium	µg/L	-	-	-	-	-	-	-	-	-	-
Beryllium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium	µg/L	-	-	-	-	-	-	-	-	-	-
Cadmium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium	µg/L	-	-	-	-	-	-	-	-	-	-
Calcium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium	µg/L	-	-	-	-	-	-	-	-	-	-
Chromium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt	µg/L	-	-	-	-	-	-	-	-	-	-
Cobalt (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Copper	µg/L	-	-	-	-	-	-	-	-	-	-
Copper (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Iron	µg/L	-	-	-	-	-	-	-	-	-	-
Iron (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Lead	µg/L	-	-	-	-	-	-	-	-	-	-
Lead (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium	µg/L	-	-	-	-	-	-	-	-	-	-
Magnesium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel	µg/L	-	-	-	-	-	-	-	-	-	-
Nickel (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium	µg/L	-	-	-	-	-	-	-	-	-	-
Potassium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Selenium	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-030610-DR-014**	**GW-38443-030710-DR-021**	**GW-38443-030710-DR-022**	**GW-38443-030810-DR-023**	**GW-38443-030810-DR-024**	**GW-38443-030810-DR-025**	**GW-38443-030810-DR-026**	**GW-38443-030910-DR-027**	**GW-38443-030910-DR-028**	**GW-38443-030910-DR-029**
Sample Date:		**3/6/2010**	**3/7/2010**	**3/7/2010**	**3/8/2010**	**3/8/2010**	**3/8/2010**	**3/8/2010**	**3/9/2010**	**3/9/2010**	**3/9/2010**
Sample Depth:		**176-186 ft BGS**	**66-76 ft BGS**	**76-86 ft BGS**	**91-96 ft BGS**	**96-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**
Sampling Company:		**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Silver	µg/L	-	-	-	-	-	-	-	-	-	-
Silver (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium	µg/L	-	-	-	-	-	-	-	-	-	-
Sodium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium	µg/L	-	-	-	-	-	-	-	-	-	-
Thallium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium	µg/L	-	-	-	-	-	-	-	-	-	-
Vanadium (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc	µg/L	-	-	-	-	-	-	-	-	-	-
Zinc (dissolved)	µg/L	-	-	-	-	-	-	-	-	-	-
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-030610-DR-014**	**GW-38443-030710-DR-021**	**GW-38443-030710-DR-022**	**GW-38443-030810-DR-023**	**GW-38443-030810-DR-024**	**GW-38443-030810-DR-025**	**GW-38443-030810-DR-026**	**GW-38443-030910-DR-027**	**GW-38443-030910-DR-028**	**GW-38443-030910-DR-029**
Sample Date:		**3/6/2010**	**3/7/2010**	**3/7/2010**	**3/8/2010**	**3/8/2010**	**3/8/2010**	**3/8/2010**	**3/9/2010**	**3/9/2010**	**3/9/2010**
Sample Depth:		**176-186 ft BGS**	**66-76 ft BGS**	**76-86 ft BGS**	**91-96 ft BGS**	**96-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**	**146-156 ft BGS**
		Duplicate									
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrite (as N)	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample ID:		**GW-38443-031010-DR-030**	**GW-38443-031010-DR-031**	**GW-38443-031010-DR-032**	**GW-38443-031010-DR-033**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**	**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**
Sample Date:		**3/10/2010**	**3/10/2010**	**3/10/2010**	**3/10/2010**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/12/2018**	**9/12/2018**
Sample Depth:		**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**	**176-186 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**80-90 ft BGS Duplicate**	**90-100 ft BGS**	**100-110 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	0.17 J	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	0.57 J	10 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	10 U	10 U	10 U	10 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.26 J	0.26 J	**0.48 J[b]**	0.32 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.17 U	0.17 U	0.17 U	0.17 U	**0.18 J[b]**	**0.79 J[b]**
Bromoform	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	0.28 U	0.53 J	0.97 J	0.28 U	0.34 J
Carbon tetrachloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.18 J	0.18 J	**0.47 J[b]**	0.17 J	**0.66 J[b]**	**0.44 J[b]**	**0.24 J[b]**	**0.25 J[b]**	**0.60 J[b]**	**1.7[b]**
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.1	2.0	0.16 U	0.16 U	0.16 U	0.18 J
cis-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.25 J	0.23 J	0.30 J	0.24 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	**0.92 J[b]**
Dichlorodifluoromethane (CFC-12)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	-	-	-	-	0.080 U	0.080 U	0.080 U	0.14 J	0.080 U	0.12 J
Methyl acetate	µg/L	10 U	10 U	10 U	10 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	0.17 J	0.22 J	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	-	-	-	-	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	2.3	2.1	2.0	1.2	0.14 J	0.33 J	4.8	5.1	1.2	2.8
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U	0.67 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**0.64 J[b]**	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-30	VAS-30	VAS-30	VAS-30	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40
Sample ID:		GW-38443-031010-DR-030	GW-38443-031010-DR-031	GW-38443-031010-DR-032	GW-38443-031010-DR-033	GW-38443-091118-JC-160	GW-38443-091118-JC-161	GW-38443-091118-JC-162	GW-38443-091118-JC-163	GW-38443-091218-JC-165	GW-38443-091218-JC-166
Sample Date:		3/10/2010	3/10/2010	3/10/2010	3/10/2010	9/11/2018	9/11/2018	9/11/2018	9/11/2018	9/12/2018	9/12/2018
Sample Depth:		156-166 ft BGS	156-166 ft BGS Duplicate	166-176 ft BGS	176-186 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	80-90 ft BGS Duplicate	90-100 ft BGS	100-110 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample ID:		**GW-38443-031010-DR-030**	**GW-38443-031010-DR-031**	**GW-38443-031010-DR-032**	**GW-38443-031010-DR-033**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**	**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**
Sample Date:		**3/10/2010**	**3/10/2010**	**3/10/2010**	**3/10/2010**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/12/2018**	**9/12/2018**
Sample Depth:		**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**	**176-186 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**80-90 ft BGS Duplicate**	**90-100 ft BGS**	**100-110 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	-	-	-	-	250	150	**13000[b]**	**12000[b]**	**23000[b]**	**15000[b]**
Aluminum (dissolved)	µg/L	-	-	-	-	34 U	34 U	34 U	34 U	**3800[b]**	34 U
Antimony	µg/L	-	-	-	-	0.57 U	0.57 U	**1.8 J[b]**	**1.5 J[b]**	0.77 J	**1.0 J[b]**
Antimony (dissolved)	µg/L	-	-	-	-	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	-	-	-	-	**0.98 J[b]**	**2.3 J[b]**	**14[ab]**	**12[ab]**	**13[ab]**	**15[ab]**
Arsenic (dissolved)	µg/L	-	-	-	-	0.75 U	**2.3 J[b]**	**5.0[b]**	**4.7 J[b]**	**5.8[b]**	**2.8 J[b]**
Barium	µg/L	-	-	-	-	160	120	260	240	290	250
Barium (dissolved)	µg/L	-	-	-	-	160	120	150	140	170	130
Beryllium	µg/L	-	-	-	-	0.48 J	0.31 U	0.63 J	0.58 J	1.0	0.71 J
Beryllium (dissolved)	µg/L	-	-	-	-	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	-	-	-	-	0.21 U	0.21 U	0.21 U	0.21 U	0.25 J	0.28 J
Cadmium (dissolved)	µg/L	-	-	-	-	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	-	-	-	-	120000	97000	230000	200000	200000	270000
Calcium (dissolved)	µg/L	-	-	-	-	110000	95000	96000	92000	100000	84000
Chromium	µg/L	-	-	-	-	0.98 U	0.98 U	63	57	43	55
Chromium (dissolved)	µg/L	-	-	-	-	0.98 U	0.98 U	0.98 U	0.98 U	7.1	0.98 U
Cobalt	µg/L	-	-	-	-	0.57 J	0.24 J	**7.5[b]**	**6.7[b]**	**12[b]**	**9.6[b]**
Cobalt (dissolved)	µg/L	-	-	-	-	0.32 J	0.19 U	0.19 U	0.19 U	**2.0[b]**	0.19 J
Copper	µg/L	-	-	-	-	1.7 U	1.7 U	28	25	35	38
Copper (dissolved)	µg/L	-	-	-	-	1.7 U	1.7 U	1.7 U	1.7 U	5.5	1.7 U
Iron	µg/L	-	-	-	-	**4500[b]**	**1900[b]**	**37000[b]**	**33000[b]**	**41000[b]**	**33000[b]**
Iron (dissolved)	µg/L	-	-	-	-	1400	**1600[b]**	**2600[b]**	**2500[b]**	**8800[b]**	1400
Lead	µg/L	-	-	-	-	0.58 J	0.45 U	12	11	**21[ab]**	**18[ab]**
Lead (dissolved)	µg/L	-	-	-	-	0.45 U	0.45 J	0.45 U	0.45 U	3.2	0.45 U
Magnesium	µg/L	-	-	-	-	43000	35000	87000	77000	76000	100000
Magnesium (dissolved)	µg/L	-	-	-	-	41000	34000	41000	39000	43000	37000
Manganese	µg/L	-	-	-	-	**240[b]**	**120[b]**	**630[b]**	**560[b]**	**790[b]**	**790[b]**
Manganese (dissolved)	µg/L	-	-	-	-	**220[b]**	**110[b]**	**76[b]**	**74[b]**	**210[b]**	**88[b]**
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	-	-	-	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	-	-	-	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	-	-	-	-	2.5	1.5 U	25	22	36	27
Nickel (dissolved)	µg/L	-	-	-	-	1.5 U	1.5 U	1.5 U	1.5 U	6.7	1.5 U
Potassium	µg/L	-	-	-	-	5200	4300	7500	7300	11000	8200
Potassium (dissolved)	µg/L	-	-	-	-	5000	4400	3200	3100	4900	3600
Selenium	µg/L	-	-	-	-	0.96 J	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample ID:		**GW-38443-031010-DR-030**	**GW-38443-031010-DR-031**	**GW-38443-031010-DR-032**	**GW-38443-031010-DR-033**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**	**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**
Sample Date:		**3/10/2010**	**3/10/2010**	**3/10/2010**	**3/10/2010**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/12/2018**	**9/12/2018**
Sample Depth:		**156-166 ft BGS**	**156-166 ft BGS Duplicate**	**166-176 ft BGS**	**176-186 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**80-90 ft BGS Duplicate**	**90-100 ft BGS**	**100-110 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	-	-	-	-	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U
Silver	µg/L	-	-	-	-	0.053 U	0.053 U	0.056 J	0.053 U	0.059 J	0.057 J
Silver (dissolved)	µg/L	-	-	-	-	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	-	-	-	-	84000	50000	44000	42000	40000	39000
Sodium (dissolved)	µg/L	-	-	-	-	83000	51000	45000	43000	39000	38000
Thallium	µg/L	-	-	-	-	0.20 U	0.20 U	**0.30 J[b]**	**0.26 J[b]**	**0.45 J[b]**	**0.37 J[b]**
Thallium (dissolved)	µg/L	-	-	-	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	-	-	-	-	0.82 U	0.82 U	**26[b]**	**24[b]**	**42[b]**	**32[b]**
Vanadium (dissolved)	µg/L	-	-	-	-	0.82 U	0.82 U	0.82 U	0.82 U	6.9	0.82 U
Zinc	µg/L	-	-	-	-	**1500[b]**	170	**740[b]**	**710[b]**	260	430
Zinc (dissolved)	µg/L	-	-	-	-	**1300[b]**	170	310	320	110	220
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample ID:		**GW-38443-031010-DR-030**	**GW-38443-031010-DR-031**	**GW-38443-031010-DR-032**	**GW-38443-031010-DR-033**	**GW-38443-091118-JC-160**	**GW-38443-091118-JC-161**	**GW-38443-091118-JC-162**	**GW-38443-091118-JC-163**	**GW-38443-091218-JC-165**	**GW-38443-091218-JC-166**
Sample Date:		**3/10/2010**	**3/10/2010**	**3/10/2010**	**3/10/2010**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/11/2018**	**9/12/2018**	**9/12/2018**
Sample Depth:		**156-166 ft BGS**	**156-166 ft BGS**	**166-176 ft BGS**	**176-186 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**
Sampling Company:		**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	-	-	-	-	180000	86000	86000	86000	82000	76000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	-	-	-	-	240	27 J	14 J	14 J	40 J	230
Nitrite (as N)	µg/L	-	-	-	-	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	-	-	-	-	62000	61000	70000	71000	72000	70000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-40	VAS-40	VAS-40	VAS-40	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42
Sample ID:		GW-38443-091318-JC-167	GW-38443-091318-JC-168	GW-38443-091418-JC-169	GW-38443-091418-JC-170	GW-38443-081718-JC-126	GW-38443-082018-JC-127	GW-38443-082118-JC-128	GW-38443-082118-JC-130	GW-38443-082118-JC-131	GW-38443-082218-JC-132
Sample Date:		9/13/2018	9/13/2018	9/14/2018	9/14/2018	8/17/2018	8/20/2018	8/21/2018	8/21/2018	8/21/2018	8/22/2018
Sample Depth:		110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	8.0 U	4.8 U	4.0 U	2.4 U	1.6 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	4.3 U	4.2 J[b]	2.2 U	1.3 U	0.87 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	3.0 U	1.8 U	1.5 U	0.90 U	0.60 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	5.7 U	3.4 U	2.8 U	1.7 U	1.1 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	6.3 U	3.8 U	3.2 U	1.9 U	1.3 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	8.7 U	5.3 J[b]	4.3 U	2.6 U	1.7 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U	1.0 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	7.0 U	4.2 U	3.5 U	2.1 U	1.4 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U	1.0 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U	1.0 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	5.3 U	3.2 U	2.7 U	1.6 U	1.1 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	39 U	23 U	19 U	12 U	7.7 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	18 U	11 J[b]	9.0 U	5.4 U	3.6 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	14 U	13 J	7.0 U	4.2 U	2.8 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	180 U	110 U	90 U	54 U	36 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	4.3 U	2.6 U	2.2 U	1.3 U	0.87 U	0.13 U
Bromodichloromethane	µg/L	0.18 J[b]	0.17 U	0.17 U	0.30 J[b]	5.7 U	3.4 U	2.8 U	1.7 U	1.1 U	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	0.76 U	0.76 U	25 U	15 U	13 U	7.6 U	5.1 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	14 U	8.4 U	7.0 U	4.2 U	2.8 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	9.3 U	5.6 U	4.7 U	2.8 U	1.9 U	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	0.26 UJ	0.26 UJ	8.7 U	5.2 U	4.3 U	2.6 U	1.7 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	4.7 U	2.8 U	2.3 U	1.4 U	0.93 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	28 U	17 U	14 U	8.3 U	5.5 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.67 J[b]	0.40 J[b]	1.0 J[b]	1.1 J[b]	4.3 U	2.6 U	2.2 U	1.3 U	1.8 J[b]	0.24 J[b]
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	6.7 U	4.0 U	3.3 U	2.0 U	1.3 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.66 J	8.6[b]	4.2 J[b]	0.35 J	480[ab]	360[ab]	330[ab]	190[ab]	130[ab]	17[b]
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	0.61 U	0.61 U	20 U	12 UJ	10 U	6.1 U	4.1 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	8.0 U	4.8 U	4.0 U	2.4 U	1.6 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	13 U	7.8 U	6.5 U	3.9 U	2.6 U	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	0.35 U	0.35 U	12 U	7.0 U	5.8 U	3.5 U	2.3 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	3.7 U	2.2 U	1.8 U	1.1 U	0.73 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	3.0 U	1.8 U	1.5 U	0.90 U	0.60 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U	2.7 U	1.6 U	1.3 U	0.80 U	0.53 U	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	57 U	34 U	29 U	17 U	11 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	11 U	6.6 U	5.5 U	3.3 U	2.2 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U	2.3 U	1.4 U	1.2 U	0.70 U	0.47 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	87 U	52 U	44 U	26 U	17 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	3.0 U	1.8 U	1.5 U	0.90 U	0.60 U	0.090 U
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	3.3 U	2.0 U	1.7 U	1.0 U	0.67 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U	1.0 U	0.15 U
Toluene	µg/L	0.25 J	0.51 J	0.25 J	5.0 J	4.7 U	2.8 U	2.9 J	1.8 J	2.1 J	1.5
trans-1,2-Dichloroethene	µg/L	0.19 U	0.29 J	0.19 U	0.19 U	6.3 U	3.8 U	3.2 U	1.9 U	1.3 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 U	0.67 U	0.67 U	0.67 U	22 U	13 UJ	11 U	6.7 U	4.5 U	0.67 UJ
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	3.3 U	2.0 U	1.7 U	1.0 U	0.67 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	15 U	9.0 U	7.5 U	4.5 U	3.0 U	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	14 U	8.2 U	6.8 U	4.1 U	2.7 U	0.41 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	170[ab]	110[ab]	89[ab]	78[ab]	110[ab]	21[ab]
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U	1.0 U	0.15 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-40	VAS-40	VAS-40	VAS-40	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42
Sample ID:		GW-38443-091318-JC-167	GW-38443-091318-JC-168	GW-38443-091418-JC-169	GW-38443-091418-JC-170	GW-38443-081718-JC-126	GW-38443-082018-JC-127	GW-38443-082118-JC-128	GW-38443-082118-JC-130	GW-38443-082118-JC-131	GW-38443-082218-JC-132
Sample Date:		9/13/2018	9/13/2018	9/14/2018	9/14/2018	8/17/2018	8/20/2018	8/21/2018	8/21/2018	8/21/2018	8/22/2018
Sample Depth:		110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample ID:		**GW-38443-091318-JC-167**	**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**	**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**
Sample Date:		**9/13/2018**	**9/13/2018**	**9/14/2018**	**9/14/2018**	**8/17/2018**	**8/20/2018**	**8/21/2018**	**8/21/2018**	**8/21/2018**	**8/22/2018**
Sample Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	570	**2500[b]**	990	**7700[b]**	270	430	-	**4500[b]**	**3400[b]**	53
Aluminum (dissolved)	µg/L	34 U	34 U	34 U	34 U	34 U	34 U	-	140	34 U	34 U
Antimony	µg/L	0.57 U	**1.0 J[b]**	0.57 U	0.57 U	0.57 U	0.70 J	-	0.57 U	**0.81 J[b]**	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	-	0.57 U	**0.86 J[b]**	0.57 U
Arsenic	µg/L	**4.1 J[b]**	**6.1[b]**	**1.1 J[b]**	**4.6 J[b]**	**9.3[b]**	**6.3[b]**	-	**8.6[b]**	**6.9[b]**	**1.6 J[b]**
Arsenic (dissolved)	µg/L	**2.7 J[b]**	**2.5 J[b]**	**0.75 J[b]**	**2.1 J[b]**	**9.6[b]**	**5.9[b]**	-	**4.5 J[b]**	**3.2 J[b]**	**1.5 J[b]**
Barium	µg/L	150	180	180	230	84	85	-	110	100	91
Barium (dissolved)	µg/L	130	150	180	150	84	83	-	65	81	92
Beryllium	µg/L	0.74 U	0.31 U	0.31 U	0.611 U	0.31 U	0.94 U	-	0.59 U	0.65 U	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.61 U	-	0.386 U	0.93 U	0.31 U
Cadmium	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.25 J	-	0.24 J	0.24 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	-	0.21 U	0.25 J	0.21 U
Calcium	µg/L	96000	160000	91000	140000	91000	94000	-	150000	130000	73000
Calcium (dissolved)	µg/L	94000	110000	94000	100000	87000	93000	-	79000	74000	73000
Chromium	µg/L	2.8	35	3.5	32	3.7 U	5.2 U	-	23	19	3.0 U
Chromium (dissolved)	µg/L	0.98 U	0.98 U	0.98 U	0.98 U	1.9 U	2.89 U	-	3.4 U	2.89 U	2.89 U
Cobalt	µg/L	**1.3[b]**	**2.6[b]**	**1.2[b]**	**4.2[b]**	0.57 J	**0.85 J[b]**	-	**4.3[b]**	**3.4[b]**	0.27 J
Cobalt (dissolved)	µg/L	0.22 J	0.22 J	0.44 J	0.19 U	0.38 J	0.51 J	-	0.35 J	0.40 J	0.21 J
Copper	µg/L	2.3	15	2.4	18	1.7 U	1.7 J	-	20	13	1.7 U
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	-	1.7 U	1.7 U	1.7 U
Iron	µg/L	**19000[b]**	**25000[b]**	**18000[b]**	**16000[b]**	**4300[b]**	**4400[b]**	-	**15000[b]**	**10000[b]**	**2600[b]**
Iron (dissolved)	µg/L	**3300[b]**	**2600[b]**	**5000[b]**	**1700[b]**	**3500[b]**	**3500[b]**	-	**1800[b]**	1100	**1600[b]**
Lead	µg/L	1.2	4.5	2.5	7.1	0.45 U	1.1	-	8.4	4.6	0.45 U
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	-	0.57 J	0.45 J	0.45 U
Magnesium	µg/L	38000	62000	42000	56000	43000	43000	-	53000	54000	34000
Magnesium (dissolved)	µg/L	37000	42000	44000	44000	43000	43000 J	-	31000 J	31000 J	34000 J
Manganese	µg/L	**220[b]**	**410[b]**	**310[b]**	**520[b]**	**85[b]**	**110[b]**	-	**470[b]**	**420[b]**	**190[b]**
Manganese (dissolved)	µg/L	**130[b]**	**140[b]**	**250[b]**	**250[b]**	**71[b]**	**91[b]**	-	**140[b]**	**160[b]**	**190[b]**
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U
Nickel	µg/L	6.0	11	6.0	13	1.5 U	2.6	-	13	12	1.5 U
Nickel (dissolved)	µg/L	1.5 U	1.5 U	1.8 J	1.5 U	1.5 U	1.5 J	-	1.7 J	1.6 J	1.5 U
Potassium	µg/L	3900	5100	4400	6400	16000	18000	-	11000	11000	10000
Potassium (dissolved)	µg/L	3700	4600	4500	4300	16000	18000	-	9100	10000	11000
Selenium	µg/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	1.1 J	-	1.4 J	1.2 J	0.89 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample ID:		**GW-38443-091318-JC-167**	**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**	**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**
Sample Date:		**9/13/2018**	**9/13/2018**	**9/14/2018**	**9/14/2018**	**8/17/2018**	**8/20/2018**	**8/21/2018**	**8/21/2018**	**8/21/2018**	**8/22/2018**
Sample Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	0.89 U	-	0.89 U	0.96 J	0.92 J
Silver	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-	0.053 U	0.053 U	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-	0.053 U	0.053 U	0.053 U
Sodium	µg/L	37000	37000	38000	40000	57000	54000	-	27000	27000	28000
Sodium (dissolved)	µg/L	38000	40000	41000	40000	58000	56000 J	-	27000 J	27000 J	28000 J
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	**0.24 J[b]**	-	0.20 U	**0.26 J[b]**	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U	**0.22 J[b]**	0.20 U
Vanadium	µg/L	1.5 J	8.1	2.0 J	**16[b]**	0.96 J	1.4 J	-	**12[b]**	**9.2[b]**	0.82 U
Vanadium (dissolved)	µg/L	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	-	1.0 J	0.82 U	0.82 U
Zinc	µg/L	260	**1200[b]**	**2000[b]**	**680[b]**	**930[b]**	**2300[b]**	-	**2200[b]**	**790[b]**	**1400[b]**
Zinc (dissolved)	µg/L	190	**860[b]**	**1700[b]**	500	**940[b]**	**2300[b]**	-	**1600[b]**	560	**1300[b]**
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample ID:		**GW-38443-091318-JC-167**	**GW-38443-091318-JC-168**	**GW-38443-091418-JC-169**	**GW-38443-091418-JC-170**	**GW-38443-081718-JC-126**	**GW-38443-082018-JC-127**	**GW-38443-082118-JC-128**	**GW-38443-082118-JC-130**	**GW-38443-082118-JC-131**	**GW-38443-082218-JC-132**
Sample Date:		**9/13/2018**	**9/13/2018**	**9/14/2018**	**9/14/2018**	**8/17/2018**	**8/20/2018**	**8/21/2018**	**8/21/2018**	**8/21/2018**	**8/22/2018**
Sample Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	76000	76000	76000	76000	110000	100000	-	54000	52000	53000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	110	36 J	98 J	100	18 J	14 U	-	59 J	150	35 J
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U	14 U	-	14 U	14 U	14 U
Sulfate	µg/L	78000	94000	93000	92000	75000	73000	-	69000	68000	76000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-082218-JC-133**	**GW-38443-082718-JC-141**	**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**	**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**8/22/2018**	**8/27/2018**	**8/27/2018**	**8/28/2018**	**8/28/2018**	**8/29/2018**	**8/29/2018**	**8/29/2018**	**8/30/2018**	**8/31/2018**
Sample Depth:		**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	12 U	4.8 U	2.4 U	2.4 U	2.4 U	0.48 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	6.5 U	2.6 U	1.3 U	1.3 U	1.3 U	0.26 U	0.13 U	0.13 U
1,1,2-Trichloroethane	µg/L	0.090 U	0.090 U	4.5 U	1.8 U	0.90 U	0.90 U	0.90 U	0.18 U	0.090 U	0.090 U
1,1-Dichloroethane	µg/L	0.17 U	0.20 J	8.5 U	3.4 U	1.7 U	1.7 U	1.7 U	0.34 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	9.5 U	3.8 U	1.9 U	1.9 U	1.9 U	0.38 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	13 U	5.2 U	2.6 U	2.6 U	2.6 U	0.52 U	0.26 U	0.26 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	11 U	4.2 U	2.1 U	2.1 U	2.1 U	0.42 U	0.21 U	0.21 U
1,2-Dichloropropane	µg/L	0.15 U	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U
1,3-Dichlorobenzene	µg/L	0.15 U	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	8.0 U	3.2 U	1.6 U	1.6 U	1.6 U	0.32 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	58 U	23 U	12 U	12 U	12 U	2.3 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	27 U	11 U	5.4 U	5.4 U	5.4 U	1.1 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	21 U	8.4 U	4.2 U	4.2 U	4.2 U	0.84 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	270 U	110 U	54 U	54 U	54 U	11 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.17 J	6.5 U	2.6 U	1.3 U	1.3 U	1.3 U	0.26 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	**0.27 J[b]**	0.17 U	8.5 U	3.4 U	1.7 U	1.7 U	1.7 U	0.34 U	**0.71 J[b]**	0.17 U
Bromoform	µg/L	0.76 U	0.76 U	38 U	15 U	7.6 U	7.6 U	7.6 U	1.5 U	0.76 U	0.76 U
Bromomethane (Methyl bromide)	µg/L	0.42 U	0.42 U	21 U	8.4 U	4.2 U	4.2 U	4.2 U	0.84 U	0.42 U	0.42 U
Carbon disulfide	µg/L	0.28 U	0.28 U	14 U	5.6 U	2.8 U	2.8 U	2.8 U	0.56 U	1.2	0.28 U
Carbon tetrachloride	µg/L	0.26 U	0.26 U	13 U	5.2 U	2.6 U	2.6 U	2.6 U	0.52 U	0.26 U	0.26 U
Chlorobenzene	µg/L	0.14 U	0.14 U	7.0 U	2.8 U	1.4 U	1.4 U	1.4 U	0.28 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	42 U	17 U	8.3 U	8.3 U	8.3 U	1.7 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	**0.89 J[b]**	0.13 U	6.5 U	2.6 U	**4.2 J[b]**	1.3 U	1.3 U	**1.0 J[b]**	**2.6[b]**	**0.78 J[b]**
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	10 U	4.0 U	2.0 U	2.0 U	2.0 U	0.40 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	**6.0[b]**	**42[b]**	**840[ab]**	**320[ab]**	**190[ab]**	**190[ab]**	**120[ab]**	**38[b]**	3.4	0.97 J
cis-1,3-Dichloropropene	µg/L	0.61 U	0.61 U	31 U	12 U	6.1 U	6.1 U	6.1 U	1.2 U	0.61 U	0.61 U
Cyclohexane	µg/L	0.24 U	0.24 U	12 U	4.8 U	2.4 U	2.4 U	2.4 U	0.48 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	20 U	7.8 U	3.9 U	3.9 U	3.9 U	0.78 U	0.46 J	0.39 U
Dichlorodifluoromethane (CFC-12)	µg/L	0.35 U	0.35 U	18 U	7.0 U	3.5 U	3.5 U	3.5 U	0.70 U	0.35 U	0.35 U
Ethylbenzene	µg/L	0.11 U	0.11 J	5.5 U	2.2 U	1.1 U	1.1 U	1.1 U	0.22 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	4.5 U	1.8 U	0.90 U	0.90 U	0.90 U	0.18 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.14 J	4.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.16 U	0.11 J	0.080 U
Methyl acetate	µg/L	1.7 U	1.7 U	86 U	34 U	17 U	17 U	17 U	3.4 U	1.7 U	1.7 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	17 U	6.6 U	3.3 U	3.3 U	3.3 U	0.66 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	3.5 U	1.4 U	0.70 U	0.70 U	0.70 U	0.14 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	130 U	52 U	26 U	26 U	26 U	5.2 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	4.5 U	1.8 U	0.90 U	0.90 U	0.90 U	0.18 U	0.090 U	0.090 U
Styrene	µg/L	0.10 U	0.10 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U
Toluene	µg/L	2.4	1.1	7.0 U	2.8 U	2.3 J	3.0 J	1.4 U	1.3 J	0.86 J	0.71 J
trans-1,2-Dichloroethene	µg/L	0.19 U	1.3	9.5 U	3.8 U	1.9 U	1.9 U	1.9 U	0.38 U	0.19 U	0.19 U
trans-1,3-Dichloropropene	µg/L	0.67 UJ	0.67 U	34 U	13 U	6.7 U	6.7 U	6.7 U	1.3 U	0.67 U	0.67 U
Trichloroethene	µg/L	0.10 U	**5.4[ab]**	10.4 U	2.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.10 U	0.10 U
Trichlorofluoromethane (CFC-11)	µg/L	0.45 U	0.45 U	23 U	9.0 U	4.5 U	4.5 U	4.5 U	0.90 U	0.45 UJ	0.45 U
Trifluorotrichloroethane (CFC-113)	µg/L	0.41 U	0.41 U	21 U	8.2 U	4.1 U	4.1 U	4.1 U	0.82 U	0.41 U	0.41 U
Vinyl chloride	µg/L	**6.4[ab]**	**1.4[b]**	**73[ab]**	**56[ab]**	**44[ab]**	**53[ab]**	**31[ab]**	**27[ab]**	**17[ab]**	**12[ab]**
Xylenes (total)	µg/L	0.15 U	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-082218-JC-133**	**GW-38443-082718-JC-141**	**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**	**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**8/22/2018**	**8/27/2018**	**8/27/2018**	**8/28/2018**	**8/28/2018**	**8/29/2018**	**8/29/2018**	**8/29/2018**	**8/30/2018**	**8/31/2018**
Sample Depth:		**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles											
2,2'-Oxybis(1-chloropropane) (bis(2-Chloroisopropyl) ether)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,6-Trichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dimethylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2,6-Dinitrotoluene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chloronaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
2-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/L	-	-	-	-	-	-	-	-	-	-
3-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4,6-Dinitro-2-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Bromophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloro-3-methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chloroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Chlorophenyl phenyl ether	µg/L	-	-	-	-	-	-	-	-	-	-
4-Methylphenol	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitroaniline	µg/L	-	-	-	-	-	-	-	-	-	-
4-Nitrophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/L	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/L	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/L	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Atrazine	µg/L	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(b)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/L	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethoxy)methane	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Chloroethyl)ether	µg/L	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/L	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/L	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/L	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/L	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/L	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/L	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/L	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/L	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-082218-JC-133**	**GW-38443-082718-JC-141**	**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**	**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**8/22/2018**	**8/27/2018**	**8/27/2018**	**8/28/2018**	**8/28/2018**	**8/29/2018**	**8/29/2018**	**8/29/2018**	**8/30/2018**	**8/31/2018**
Sample Depth:		**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Semi-Volatiles (cont'd)											
Hexachlorocyclopentadiene	µg/L	-	-	-	-	-	-	-	-	-	-
Hexachloroethane	µg/L	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/L	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrobenzene	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodi-n-propylamine	µg/L	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/L	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/L	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/L	-	-	-	-	-	-	-	-	-	-
Phenol	µg/L	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/L	-	-	-	-	-	-	-	-	-	-
Metals											
Aluminum	µg/L	**3900[b]**	**2200[b]**	130 U	390	**12000[b]**	96	1700	1100	**15000[b]**	720
Aluminum (dissolved)	µg/L	34 U	37 U	80 U	34 U	34 U	34 U	34 U	34 U	180	34 U
Antimony	µg/L	0.58 J	0.57 U	0.57 U	0.57 U	**1.0 J[b]**	0.57 U	0.57 U	0.57 U	**1.6 J[b]**	0.57 U
Antimony (dissolved)	µg/L	0.57 U	0.57 U	0.58 J	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U	0.57 U
Arsenic	µg/L	**3.6 J[b]**	**3.4 J[b]**	**7.4[b]**	**5.6[b]**	**12[ab]**	**1.9 J[b]**	**4.2 J[b]**	**3.1 J[b]**	**12[ab]**	**1.5 J[b]**
Arsenic (dissolved)	µg/L	**1.2 J[b]**	**0.96 J[b]**	**7.8[b]**	**5.3[b]**	**1.9 J[b]**	**1.8 J[b]**	**2.7 J[b]**	**1.8 J[b]**	**0.89 J[b]**	0.75 U
Barium	µg/L	150	110	78	81	250	80	100	120	270	130
Barium (dissolved)	µg/L	110	80	72	72	67	75	80	100	110	110
Beryllium	µg/L	0.41 J	0.31 U	0.31 U	0.31 U	0.74 J	0.31 U	0.31 U	0.31 U	0.85 J	0.31 U
Beryllium (dissolved)	µg/L	0.31 U	0.63 J	0.94 J	0.49 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Cadmium	µg/L	0.24 J	0.21 U	0.21 U	0.21 U	0.57 J	0.21 U	0.21 U	0.21 U	0.48 J	0.21 U
Cadmium (dissolved)	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
Calcium	µg/L	130000	180000	96000	89000	330000	78000	95000	96000	300000	76000
Calcium (dissolved)	µg/L	80000	110000	95000	85000	74000	79000	80000	85000	75000	69000
Chromium	µg/L	38	4.8	0.98 U	2.0	45	2.7	13	14	74	12
Chromium (dissolved)	µg/L	2.89 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U	0.98 U
Cobalt	µg/L	**3.4[b]**	**2.2[b]**	0.43 J	0.59 J	**11[b]**	0.56 J	**1.9[b]**	**1.6[b]**	**16[b]**	**1.6[b]**
Cobalt (dissolved)	µg/L	0.35 J	0.52 J	0.38 J	0.28 J	0.41 J	0.47 J	0.40 J	0.44 J	**0.83 J[b]**	0.46 J
Copper	µg/L	14	8.5	1.7 U	1.9 J	42	1.7 U	7.9	6.4	58	5.0
Copper (dissolved)	µg/L	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Iron	µg/L	**18000[b]**	**6000[b]**	**3700[b]**	**6000[b]**	**32000[b]**	**3800[b]**	**7500[b]**	**7200[b]**	**46000[b]**	**24000[b]**
Iron (dissolved)	µg/L	1400	960 U	**3100[b]**	**2500[b]**	1100	1200	**1900[b]**	**1500[b]**	**2500[b]**	**2800[b]**
Lead	µg/L	4.5	3.1	0.45 U	0.70 J	**18[ab]**	0.58 J	3.4	2.1	**26[ab]**	1.6
Lead (dissolved)	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.47 J	0.45 U
Magnesium	µg/L	49000	74000	35000	36000	120000	31000	38000	38000	96000	40000
Magnesium (dissolved)	µg/L	39000 J	43000	35000	31000	31000	32000	33000	35000	36000	37000
Manganese	µg/L	**570[b]**	**590[b]**	**120[b]**	**190[b]**	**1000[b]**	**170[b]**	**300[b]**	**320[b]**	**1400[b]**	**360[b]**
Manganese (dissolved)	µg/L	**270[b]**	**410[b]**	**110[b]**	**150[b]**	**160[b]**	**150[b]**	**180[b]**	**230[b]**	**320[b]**	**200[b]**
Manganese 2+	µg/L	-	-	-	-	-	-	-	-	-	-
Mercury	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Mercury (dissolved)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Nickel	µg/L	12	5.1	1.5 U	2.0	29	1.5 J	5.6	5.8	**42[b]**	7.9
Nickel (dissolved)	µg/L	1.9 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	2.5	1.5 U
Potassium	µg/L	11000	6100	7200	5500	8600	5800	6700	7800	12000	9700
Potassium (dissolved)	µg/L	10000	5800	7500	5800	5700	6200	6700	8100	8800	9700
Selenium	µg/L	1.3 U	0.89 U	1.64 U	0.89 U	2.3 U	1.64 U	1.64 U	1.64 U	2.9 U	1.64 U

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-082218-JC-133**	**GW-38443-082718-JC-141**	**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**	**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**8/22/2018**	**8/27/2018**	**8/27/2018**	**8/28/2018**	**8/28/2018**	**8/29/2018**	**8/29/2018**	**8/29/2018**	**8/30/2018**	**8/31/2018**
Sample Depth:		**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Metals (cont'd)											
Selenium (dissolved)	µg/L	1.2 U	2.4 U	2.1 U	2.0 U	2.0 U	1.8 U	1.64 U	1.7 U	0.89 U	1.64 U
Silver	µg/L	0.066 J	0.053 U	0.053 U	0.053 U	0.084 J	0.053 U	0.053 U	0.053 U	0.11 J	0.053 U
Silver (dissolved)	µg/L	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U
Sodium	µg/L	32000	41000	60000	47000	34000	32000	37000	39000	39000	36000
Sodium (dissolved)	µg/L	32000 J	42000	61000	45000	35000	33000	38000	42000	40000	35000
Thallium	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.35 J[b]	0.20 U	0.20 U	0.20 U	0.51 J[b]	0.20 U
Thallium (dissolved)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Vanadium	µg/L	11[b]	6.0	1.15 U	1.5 U	33[b]	2.2 U	5.6 U	4.6 U	39[b]	2.8 U
Vanadium (dissolved)	µg/L	0.90 J	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.15 U	1.30 U	0.82 U
Zinc	µg/L	610[b]	600	1300[b]	1000[b]	600	1700[b]	980[b]	1800[b]	670[b]	750[b]
Zinc (dissolved)	µg/L	370	620[b]	1200[b]	810[b]	320	1700[b]	1000[b]	1900[b]	180	560
PCBs											
Aroclor-1016 (PCB-1016)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1221 (PCB-1221)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1232 (PCB-1232)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/L	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/L	-	-	-	-	-	-	-	-	-	-
Pesticides											
4,4'-DDD	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/L	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/L	-	-	-	-	-	-	-	-	-	-
Aldrin	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/L	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/L	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/L	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/L	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor	µg/L	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/L	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/L	-	-	-	-	-	-	-	-	-	-
Toxaphene	µg/L	-	-	-	-	-	-	-	-	-	-
Gases											
Ethane	µg/L	-	-	-	-	-	-	-	-	-	-
Ethene	µg/L	-	-	-	-	-	-	-	-	-	-
Methane	µg/L	-	-	-	-	-	-	-	-	-	-
Herbicides											
2,4,5-T	µg/L	-	-	-	-	-	-	-	-	-	-
2,4,5-TP (Silvex)	µg/L	-	-	-	-	-	-	-	-	-	-
2,4-Dichlorophenoxyacetic acid (2,4-D)	µg/L	-	-	-	-	-	-	-	-	-	-

Table 4

Analytical Results for Groundwater Samples
Outside OU1 Lower Aquifer
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-082218-JC-133**	**GW-38443-082718-JC-141**	**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**	**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**
Sample Date:		**8/22/2018**	**8/27/2018**	**8/27/2018**	**8/28/2018**	**8/28/2018**	**8/29/2018**	**8/29/2018**	**8/29/2018**	**8/30/2018**	**8/31/2018**
Sample Depth:		**140-150 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
General Chemistry											
Alkalinity, total (as CaCO3)	µg/L	-	-	-	-	-	-	-	-	-	-
Chloride	µg/L	59000	74000	96000	67000	57000	53000	52000	54000	59000	56000
Cyanide (total)	µg/L	-	-	-	-	-	-	-	-	-	-
Dissolved organic carbon (DOC)	µg/L	-	-	-	-	-	-	-	-	-	-
Hardness	µg/L	-	-	-	-	-	-	-	-	-	-
Nitrate (as N)	µg/L	130	34 J	14 U	63 J	350	210	94 J	75 J	330	150
Nitrite (as N)	µg/L	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U	14 U
Sulfate	µg/L	86000	89000	77000	82000	75000	76000	77000	78000	75000	79000
Sulfide (acid soluble)	µg/L	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:				Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer
Sample Location:				MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS
Sample ID:				GW-38443-060609-DR-029	GW-38443-060609-DR-030	GW-38443-060709-DR-031	GW-38443-060709-DR-032	GW-38443-060709-DR-033	GW-38443-060709-DR-034	GW-38443-060709-DR-035	GW-38443-060709-DR-036	GW-38443-060809-DR-038
Sample Date:				6/6/2009	6/6/2009	6/7/2009	6/7/2009	6/7/2009	6/7/2009	6/7/2009	6/7/2009	6/8/2009
Sample Depth:				20-27 ft BGS	20-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	57-62 ft BGS
Sampling Company:				CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**MCL a**	**Tapwater b**									
Volatiles												
1,1,1-Trichloroethane	µg/L	200	800	4.8	5.0	8.8	8.8	10	11	6.6	9.5	1.7 U
1,1,2,2-Tetrachloroethane	µg/L	-	0.076	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	-	2.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J
1,1-Dichloroethene	µg/L	7	28	0.27 J	0.20 J	0.37 J	0.38 J	0.45 J	0.53 J	0.34 J	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	70	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.05	0.0075	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	600	30	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5	0.17	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	75	0.48	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	-	3.8	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	630	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Acetone	µg/L	-	1400	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	5	0.46	**0.75 J[b]**	**0.59 J[b]**	**0.53 J[b]**	**0.58 J[b]**	**0.88 J[b]**	**0.79 J[b]**	**0.70 J[b]**	1.0 U	1.0 U
Bromodichloromethane	µg/L	80	0.13	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	-	81	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	100	7.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	-	2100	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	0.22	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	-	19	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	1.4	**10[b]**
Cyclohexane	µg/L	-	1300	0.33 J	0.18 J	1.0 U	1.0 U	0.36 J	0.47 J	0.28 J	0.71 J	0.62 J
Dibromochloromethane	µg/L	80	0.87	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	700	1.5	0.45 J	0.39 J	0.38 J	0.28 J	0.37 J	0.47 J	1.0 U	0.21 J	1.0 U
Isopropyl benzene	µg/L	-	45	0.42 J	0.41 J	0.42 J	0.39 J	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	-	-	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.78 J	0.69 J
Methyl tert butyl ether (MTBE)	µg/L	-	14	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5	11	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	19	-	-	-	-	-	-	-	-	-
Styrene	µg/L	100	120	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	5	4.1	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Toluene	µg/L	1000	110	2.1 U	1.9 U	1.6 U	1.3 U	1.6 U	1.8 U	1.5 U	1.3 U	1.6 U
trans-1,2-Dichloroethene	µg/L	100	36	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.38 J	0.32 J	1.5
Trichloroethene	µg/L	5	0.28	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.2[b]**	**5.2[ab]**	2.0 U
Vinyl chloride	µg/L	2	0.019	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Xylenes (total)	µg/L	10000	19	0.97 J	0.84 J	1.5 J	0.94 J	1.2 J	1.4 J	0.49 J	0.47 J	2.0 U
Total VOCs (Detects)	µg/L	-	-	7.99	7.61	12	11.37	13.26	15.06	15.09	18.59	13.03

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**
Sample ID:		**GW-38443-060809-DR-039**	**GW-38443-060809-DR-040**	**GW-38443-060809-DR-041**	**GW-38443-060809-DR-042**	**GW-38443-060809-DR-043**	**GW-38443-060809-DR-044**	**GW-38443-060909-DR-045**	**GW-38443-060909-DR-046**	**GW-38443-060909-DR-047**	**GW-38443-060909-DR-048**
Sample Date:		**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/8/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**	**6/9/2009**
Sample Depth:		**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**97-102 ft BGS**	**102-107 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.6[b]	1.4[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	0.84 J	0.71 J	0.73 J	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	11[b]	26[b]	24[b]	0.80 J	0.70 J	0.67 J	1.8	1.8	0.36 J	1.0 U
Cyclohexane	µg/L	0.54 J	1.0 UJ	1.0 UJ	0.58 J	0.58 J	0.57 J	1.0 U	1.0 U	0.18 J	0.15 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	0.62 J	0.58 J	1.0 UJ	0.65 J	0.65 J	0.66 J	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	µg/L	1.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2	0.90 J	1.1	0.87 J
trans-1,2-Dichloroethene	µg/L	1.8	0.34 J	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	2.1 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	3.8[ab]	3.7[ab]	4.3[ab]	4.6[ab]	4.6[ab]	4.2[ab]	4.3[ab]	11[ab]	17[ab]
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	14.21	32.32	29.4	6.33	6.53	6.5	8.04	7.71	13.37	18.02

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS	VAS-1	VAS-1	VAS-1
Sample ID:		GW-38443-060909-DR-049	GW-38443-060909-DR-050	GW-38443-060909-DR-051	GW-38443-060909-DR-052	GW-38443-060909-DR-053	GW-38443-061009-DR-055	GW-38443-061009-DR-056	GW-38443-110508-BW-101	GW-38443-110508-BW-102	GW-38443-110508-BW-103
Sample Date:		6/9/2009	6/9/2009	6/9/2009	6/9/2009	6/9/2009	6/10/2009	6/10/2009	11/5/2008	11/5/2008	11/5/2008
Sample Depth:		107-112 ft BGS	107-112 ft BGS	112-117 ft BGS	117-122 ft BGS	122-127 ft BGS	127-132 ft BGS	132-137 ft BGS	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS
			Duplicate								
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7	0.78 J	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	0.80 J	0.42 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.1 J	0.61 J	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	3.7 J	3.8 J	2.8 J	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.49 J[b]	0.55 J[b]	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.6	5.9[b]	1.5
Cyclohexane	µg/L	0.12 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 J	0.22 J	0.18 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.36 J	0.29 J	1.0 U
Toluene	µg/L	0.50 J	0.52 J	0.58 J	0.36 J	0.49 J	1.0 U	1.0 U	0.52 J	0.38 J	0.39 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 J	0.27 J	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1[b]	1.3[b]	0.54 J[b]
Vinyl chloride	µg/L	2.3[ab]	2.2[ab]	2.2[ab]	0.45 J[b]	0.44 J[b]	4.4[ab]	4.7[ab]	1.0 U	1.3[b]	0.62 J[b]
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	2.92	2.72	6.48	5.13	3.73	4.89	5.25	10.84	11.85	3.65

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**
Sample ID:		**GW-38443-110508-BW-104**	**GW-38443-110608-BW-105**	**GW-38443-110608-BW-106**	**GW-38443-110608-BW-107**	**GW-38443-110708-BW-108**	**GW-38443-110708-BW-109**	**GW-38443-111008-DD-110**	**GW-38443-111008-DD-111**	**GW-38443-111008-DD-112**	**GW-38443-111108-DD-113**
Sample Date:		**11/5/2008**	**11/6/2008**	**11/6/2008**	**11/6/2008**	**11/7/2008**	**11/7/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/11/2008**
Sample Depth:		**52-57 ft BGS**	**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**72-77 ft BGS Duplicate**	**77-82 ft BGS**	**82.5-87.5 ft BGS**	**87.5-92 ft BGS**	**92-97 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	0.33 J	0.52 J	0.58 J	0.47 J	0.35 J	0.38 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	9.4 J	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	4.1 J	10 U	10 U	10 U	10 U	10 U	10 UJ
Benzene	µg/L	0.29 J	1.0 U	1.0 U	0.35 J	0.23 J	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	µg/L	0.58 J	1.6	3.5	2.6	**4.8[b]**	**4.6[b]**	0.94 J	0.45 J	0.31 J	0.21 J
Cyclohexane	µg/L	0.28 J	1.0 U	0.19 J	0.25 J	0.13 J	0.13 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dibromochloromethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	µg/L	0.21 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.82 J	0.25 J	0.36 J	0.54 J	0.32 J	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.42 J	0.30 J	0.41 J	0.43 J	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	**1.4[b]**	**1.4[b]**	1.0 U	**0.34 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**0.41 J[b]**	**1.0[b]**	**0.28 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	4.57	4.77	5.33	18.35	6.24	6.08	0.94	0.45	0.31	0.21

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-2**	**VAS-2**	**VAS-2**	**VAS-2**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**
Sample ID:		**GW-38443-010809-KMV-108**	**GW-38443-010909-KMV-109**	**GW-38443-010909-KMV-110**	**GW-38443-010909-KMV-111**	**GW-38443-111208-DD-114**	**GW-38443-111208-DD-115**	**GW-38443-111208-DD-116**	**GW-38443-111208-DD-117**	**GW-38443-111208-DD-118**	**GW-38443-111208-DD-119**
Sample Date:		**1/8/2009**	**1/9/2009**	**1/9/2009**	**1/9/2009**	**11/12/2008**	**11/12/2008**	**11/12/2008**	**11/12/2008**	**11/12/2008**	**11/12/2008**
Sample Depth:		**45-50 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**65-70 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**
					Duplicate				**Duplicate**		
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	0.96 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	3.6 J	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzene	µg/L	**0.54 J[b]**	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	2.2	0.51 J	0.45 J	0.45 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.41 J	0.15 J	0.15 J	0.16 J	0.34 J	1.0 UJ	1.0 UJ	1.0 UJ	0.19 J	0.14 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	0.24 J	1.0 U	1.0 U	1.0 U	0.34 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.65 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	0.19 J	5.0 U	5.0 U	5.0 U	0.21 J	0.30 J	0.33 J	0.34 J	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0	0.54 J	0.59 J	0.53 J	1.2	0.20 J	1.0 U	1.0 U	0.58 J	0.41 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	**6.0[ab]**	**0.83 J[b]**	**0.61 J[b]**	**0.59 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	0.59 J	2.0 U	2.0 U	2.0 U	0.72 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	17.42	2.03	1.8	1.73	3.9	0.5	0.33	0.34	1.02	0.55

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**	**VAS-3**
Sample ID:		**GW-38443-111308-DD-120**	**GW-38443-111308-DD-121**	**GW-38443-111508-DD-122**	**GW-38443-111508-DD-123**	**GW-38443-111608-DD-124**	**GW-38443-111608-DD-125**	**GW-38443-111608-DD-126**	**GW-38443-111608-DD-127**	**GW-38443-111708-DD-128**	**GW-38443-111708-DD-129**
Sample Date:		**11/13/2008**	**11/13/2008**	**11/15/2008**	**11/15/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**	**11/16/2008**	**11/17/2008**	**11/17/2008**
Sample Depth:		**47-52 ft BGS**	**52-57 ft BGS**	**58.5-63.5 ft BGS**	**65-67 ft BGS**	**67-69.5 ft BGS**	**73-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.61 J	0.95 J	0.45 J	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	0.63 J	0.70 J	0.57 J	0.55 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	1.7 J	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	0.18 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.29 J	1.0 U	0.13 J	0.14 J	0.14 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Dibromochloromethane	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.50 J	0.32 J	6.2	1.2	0.51 J	0.54 J	0.44 J	0.57 J	0.37 J	0.33 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	**1.2[b]**	**2.3[b]**	**1.6[b]**	**2.3[b]**	**0.31 J[b]**	**0.32 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Total VOCs (Detects)	µg/L	3.23	4.27	9.26	6.93	0.96	0.86	0.44	0.57	0.37	0.33

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-3	VAS-4	VAS-5	VAS-5	VAS-5	VAS-5	VAS-5	VAS-5	VAS-5
Sample ID:		GW-38443-111708-DD-130	GW-38443-110608-KMV-013	GW-38443-121508-KMV-088	GW-38443-121608-KMV-089	GW-38443-121608-KMV-090	GW-38443-121608-KMV-091	GW-38443-121608-KMV-092	GW-38443-121608-KMV-093	GW-38443-121608-KMV-094
Sample Date:		11/17/2008	11/6/2008	12/15/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008
Sample Depth:		92-97 ft BGS	25-30 ft BGS	5-10 ft BGS	35-40 ft BGS	40-45 ft BGS	50-55 ft BGS	50-55 ft BGS	55-60 ft BGS	60-65 ft BGS
		Duplicate						Duplicate		
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	17 U	0.36 J	0.57 J	0.50 J	0.49 J	0.47 J	0.51 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	0.50 J	17 U	0.21 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	0.30 J	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	170 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	170 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	170 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	7.4 J	21 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	17 U	1.0 U	**0.72 J[b]**	1.0 U	1.0 U	1.0 U	**0.48 J[b]**
Bromodichloromethane	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	0.34 J	17 U	0.68 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	0.83 J	17 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	2.8	**5.3 J[b]**	**5.6[b]**	0.66 J	1.0 U	1.0 U	0.26 J	0.64 J
Cyclohexane	µg/L	1.0 UJ	0.25 J	17 U	0.31 J	0.58 J	0.26 J	0.39 J	0.41 J	0.40 J
Dibromochloromethane	µg/L	1.0 U	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 UJ	0.20 J	**89[b]**	0.45 J	0.34 J	1.0 U	1.0 U	0.22 J	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.3	36	0.18 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 UJ	0.96 J	17 U	1.0 U	0.53 J	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	83 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U
Toluene	µg/L	0.28 J	1.1	9.7 J	0.45 J	1.2	0.63 J	0.77 J	0.85 J	0.77 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	**0.31 J[b]**	17 U	1.0 U	**0.42 J[b]**	**2.1[b]**	**2.1[b]**	**2.2[b]**	**2.4[b]**
Vinyl chloride	µg/L	1.0 U	**0.58 J[b]**	17 U	**0.23 J[b]**	1.0 U	**0.28 J[b]**	**0.28 J[b]**	**0.55 J[b]**	**0.98 J[b]**
Xylenes (total)	µg/L	2.0 UJ	0.57 J	14 J	0.62 J	0.63 J	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	0.28	17.44	175	9.35	5.65	3.77	4.03	4.96	6.18

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-5**	**VAS-5**	**VAS-5**	**VAS-5**	**VAS-5**	**VAS-5**	**VAS-6**	**VAS-6**	**VAS-6**
Sample ID:		**GW-38443-121608-KMV-095**	**GW-38443-121708-KMV-097**	**GW-38443-121708-KMV-098**	**GW-38443-121708-KMV-099**	**GW-38443-121708-KMV-100**	**GW-38443-121708-KMV-101**	**GW-38443-010709-KMV-105**	**GW-38443-010709-KMV-106**	**GW-38443-010709-KMV-107**
Sample Date:		**12/16/2008**	**12/17/2008**	**12/17/2008**	**12/17/2008**	**12/17/2008**	**12/17/2008**	**1/7/2009**	**1/7/2009**	**1/7/2009**
Sample Depth:		**65-70 ft BGS**	**70-75 ft BGS**	**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**50-55 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.6	4.2	1.6
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.62 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.6	1.7	1.7
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	2.1 J	1.1 J	0.70 J
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	12	4.6 J	1.1 J
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.5[b]**	**0.89 J[b]**	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.50 J[b]**	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.38 J[b]**	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.62 J	3.4	**3.9[b]**	**4.9[b]**	**5.1[b]**	**5.3[b]**	**7.7[b]**	**4.7[b]**	3.4
Cyclohexane	µg/L	0.39 J	0.18 J	0.33 J	0.30 J	0.33 J	0.19 J	0.48 J	0.55 J	0.28 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U
Ethylbenzene	µg/L	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**20[b]**	**7.4[b]**	**2.4[b]**
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.1	0.89 J	0.28 J
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2 J	1.0 J	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.92 J	0.38 J	0.55 J	0.60 J	0.64 J	0.38 J	12	4.7	1.9
trans-1,2-Dichloroethene	µg/L	1.0 U	0.26 J	1.0 U	1.0 U	0.21 J	0.21 J	0.47 J	0.48 J	0.46 J
Trichloroethene	µg/L	**3.5[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**10[ab]**	**8.9[ab]**	**5.7[ab]**
Vinyl chloride	µg/L	**1.4[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.2[ab]**	**0.70 J[b]**	**0.36 J[b]**
Xylenes (total)	µg/L	0.47 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**70[b]**	**28[b]**	7.1
Total VOCs (Detects)	µg/L	8.19	4.22	4.78	5.8	6.28	6.08	153.77	69.81	26.98

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-7**	**VAS-7**	**VAS-7**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**	**VAS-8**
Sample ID:		**GW-38443-121808-KMV-102**	**GW-38443-121908-KMV-103**	**GW-38443-121908-KMV-104**	**GW-38443-010809-DD-218**	**GW-38443-010809-DD-219**	**GW-38443-011009-KMV-218**	**GW-38443-011009-KMV-219**	**GW-38443-011009-KMV-220**	**GW-38443-011009-KMV-221**
Sample Date:		**12/18/2008**	**12/19/2008**	**12/19/2008**	**1/8/2009**	**1/8/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**	**1/10/2009**
Sample Depth:		**40-45 ft BGS**	**50-55 ft BGS**	**55-60 ft BGS**	**25-30 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
1,1-Dichloroethane	µg/L	2.5 J	4.3[b]	4.2[b]	1.0 U	1.5 J	1.3 J	1.1 J	1.0 J	1.0 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	20 U	25 U	20 U	20 U	20 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	20 U	25 U	20 U	20 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	20 U	25 UJ	20 U	20 U	20 U
Acetone	µg/L	1.8 J	10 U	10 U	10 U	20 U	25 U	20 U	20 U	20 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	0.86 J[b]	2.0 U
Bromodichloromethane	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Chloroform (Trichloromethane)	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	µg/L	9.4[b]	11[b]	9.9[b]	1.5	74[ab]	64[b]	59[b]	64[b]	65[b]
Cyclohexane	µg/L	0.27 J	0.25 J	0.31 J	0.49 J	0.37 J	2.5 UJ	2.0 U	0.26 J	2.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 UJ	2.0 UJ	2.0 UJ
Ethylbenzene	µg/L	1.0 UJ	1.0 U	1.0 U	0.25 J	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	0.55 J	2.0 UJ	2.5 UJ	2.0 U	2.0 U	2.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	10 U	12 U	10 U	10 U	10 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	2.0 U	2.5 U	2.0 U	2.0 U	2.0 U
Toluene	µg/L	0.54 J	0.44 J	0.68 J	2.0	1.5 J	0.92 J	0.47 J	0.82 J	0.62 J
trans-1,2-Dichloroethene	µg/L	0.33 J	0.31 J	0.30 J	1.0 U	0.83 J	0.70 J	0.60 J	0.40 J	0.46 J
Trichloroethene	µg/L	1.2[b]	1.2[b]	1.3[b]	3.2[b]	51[ab]	51[ab]	42[ab]	7.4[ab]	3.8[b]
Vinyl chloride	µg/L	2.0[b]	0.82 J[b]	1.0[b]	1.0 U	3.4[ab]	2.6 J[ab]	2.7[ab]	3.1[ab]	3.0[ab]
Xylenes (total)	µg/L	2.0 UJ	2.0 U	2.0 U	0.52 J	4.0 U	5.0 U	4.0 U	4.0 U	4.0 U
Total VOCs (Detects)	µg/L	18.04	18.32	17.69	8.51	132.6	120.52	105.87	77.84	73.88

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-8	VAS-9	VAS-9
Sample ID:		GW-38443-011009-KMV-222	GW-38443-011009-KMV-223	GW-38443-011009-KMV-224	GW-38443-011009-KMV-225	GW-38443-011009-KMV-226	GW-38443-011009-KMV-227	GW-38443-011009-KMV-228	GW-38443-111808-DD-131	GW-38443-111808-DD-132
Sample Date:		1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	1/10/2009	11/18/2008	11/18/2008
Sample Depth:		62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	22-27 ft BGS	27-32 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
1,1,2,2-Tetrachloroethane	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
1,1-Dichloroethane	µg/L	3.5[b]	2.1 J	1.5 J	0.34 J	0.24 J	0.23 J	1.0 U	0.37 J	120 U
1,1-Dichloroethene	µg/L	3.3 U	0.61 J	0.84 J	0.47 J	0.51 J	0.30 J	0.26 J	1.0 U	120 U
1,2,4-Trichlorobenzene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
1,2-Dichlorobenzene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
1,2-Dichloroethane	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
1,4-Dichlorobenzene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	33 U	25 U	20 U	10 U	10 U	10 U	10 U	10 U	1200 U
2-Hexanone	µg/L	33 U	25 U	20 U	10 U	10 U	10 U	10 U	10 U	1200 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	33 U	25 U	20 U	10 U	10 U	10 U	10 UJ	10 U	1200 U
Acetone	µg/L	33 U	25 U	20 U	10 U	10 U	10 U	10 U	10 U	1200 U
Benzene	µg/L	3.3 U	2.5 U	2.0 U	0.43 J	0.44 J	1.0 U	1.0 U	0.91 J[b]	120 U
Bromodichloromethane	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	120 UJ
Carbon disulfide	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
Chlorobenzene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.6	120 U
Chloroethane	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
Chloroform (Trichloromethane)	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
Chloromethane (Methyl chloride)	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
cis-1,2-Dichloroethene	µg/L	87 J[ab]	85[ab]	71[ab]	23[b]	21[b]	17[b]	16[b]	0.77 J	3900 J[ab]
Cyclohexane	µg/L	3.3 U	2.5 U	2.0 U	0.16 J	0.19 J	0.14 J	0.13 J	0.66 J	120 U
Dibromochloromethane	µg/L	3.3 UJ	2.5 UJ	2.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	120 U
Ethylbenzene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 J	120 U
Isopropyl benzene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	120 U
Methyl tert butyl ether (MTBE)	µg/L	17 U	12 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	0.86 J	620 U
Methylene chloride	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 U
Tetrachloroethene	µg/L	3.3 U	2.5 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	120 UJ
Toluene	µg/L	0.57 J	0.69 J	0.45 J	0.45 J	0.66 J	0.43 J	0.55 J	22	36 J
trans-1,2-Dichloroethene	µg/L	3.3 U	0.50 J	0.43 J	1.0 U	1.0 U	0.26 J	0.32 J	1.0 U	120 U
Trichloroethene	µg/L	2.3 J[b]	1.6 J[b]	0.74 J[b]	1.0[b]	0.98 J[b]	0.65 J[b]	0.63 J[b]	0.33 J[b]	5100[ab]
Vinyl chloride	µg/L	20 J[ab]	35[ab]	34[ab]	7.7[ab]	7.0[ab]	2.8[ab]	2.1 J[ab]	0.97 J[b]	760[ab]
Xylenes (total)	µg/L	6.7 U	5.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.8 J	250 U
Total VOCs (Detects)	µg/L	113.37	125.5	108.96	33.55	31.02	21.81	19.99	32.62	9796

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**	**VAS-9**
Sample ID:		**GW-38443-111808-DD-133**	**GW-38443-111808-DD-134**	**GW-38443-111908-DD-135**	**GW-38443-111908-DD-136**	**GW-38443-111908-DD-137**	**GW-38443-111908-DD-138**	**GW-38443-111908-DD-139**	**GW-38443-111908-DD-140**	**GW-38443-112008-DD-141**	**GW-38443-112008-DD-142**
Sample Date:		**11/18/2008**	**11/18/2008**	**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/19/2008**	**11/20/2008**	**11/20/2008**
Sample Depth:		**47-52 ft BGS**	**52-57 ft BGS**	**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,1-Dichloroethane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,1-Dichloroethene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,2-Dichlorobenzene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,2-Dichloroethane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
1,4-Dichlorobenzene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	200 U	120 U	57 U	50 U	33 U	17 U	10 U	17 U	25 U	10 U
2-Hexanone	µg/L	200 U	120 U	57 U	50 U	33 U	17 U	10 U	17 U	25 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	200 U	120 U	57 U	50 U	33 U	17 U	10 U	17 U	25 U	10 U
Acetone	µg/L	200 U	120 U	57 U	50 U	33 U	17 UJ	10 U	17 U	25 U	10 U
Benzene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Bromodichloromethane	µg/L	20 UJ	12 UJ	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Carbon disulfide	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	0.29 J	1.7 U	2.5 U	1.0 U
Chlorobenzene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Chloroethane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Chloroform (Trichloromethane)	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
cis-1,2-Dichloroethene	µg/L	**320 J[ab]**	**260 J[ab]**	**88[ab]**	**51[b]**	**49[b]**	**23[b]**	**25[b]**	**30[b]**	**45[b]**	**23[b]**
Cyclohexane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	0.12 J	1.7 U	2.5 U	1.0 U
Dibromochloromethane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Ethylbenzene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Isopropyl benzene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	100 U	62 U	29 U	25 U	17 U	8.4 U	5.0 U	8.4 U	12 U	5.0 U
Methylene chloride	µg/L	**7.5 J[a]**	12 U	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	0.90 J	1.0 U	1.7 U	2.5 U	1.0 U
Tetrachloroethene	µg/L	20 UJ	12 UJ	5.7 U	5.0 U	3.3 U	1.7 U	1.0 U	1.7 U	2.5 U	1.0 U
Toluene	µg/L	5.7 J	4.9 J	1.9 J	2.0 J	1.5 J	1.6 J	0.56 J	1.1 J	2.2 J	2.4
trans-1,2-Dichloroethene	µg/L	20 U	12 U	5.7 U	5.0 U	3.3 U	1.7 U	0.60 J	0.49 J	0.61 J	0.39 J
Trichloroethene	µg/L	**790[ab]**	**610[ab]**	**220[ab]**	**150[ab]**	**120[ab]**	**56[ab]**	**38[ab]**	**57[ab]**	**78[ab]**	**31[ab]**
Vinyl chloride	µg/L	**8.6 J[ab]**	**7.2 J[ab]**	**2.3 J[ab]**	**1.6 J[b]**	**0.99 J[b]**	**0.58 J[b]**	**0.28 J[b]**	**0.37 J[b]**	**0.92 J[b]**	**0.67 J[b]**
Xylenes (total)	µg/L	40 U	25 U	11 U	10 U	6.7 U	3.3 U	2.0 U	3.3 U	5.0 U	2.0 U
Total VOCs (Detects)	µg/L	1131.8	882.1	312.2	204.6	171.49	82.08	64.85	88.96	126.73	57.46

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-9	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11	VAS-11
Sample ID:		GW-38443-112008-DD-143	GW-38443-120808-DD-175	GW-38443-120808-DD-176	GW-38443-120808-DD-177	GW-38443-120808-DD-178	GW-38443-120808-DD-179	GW-38443-120808-DD-180	GW-38443-120808-DD-181	GW-38443-120908-DD-182	GW-38443-120908-DD-183
Sample Date:		11/20/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008	12/9/2008	12/9/2008
Sample Depth:		92-97 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS	57-62 ft BGS	62-67 ft BGS	67-72 ft BGS	72-77 ft BGS
Sampling Company:		Duplicate CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	5.0 U	0.40 J	0.54 J	0.96 J	1.1	0.24 J	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	5.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.0 U	5.0 U	2.9[b]	2.9[b]	4.8[b]	4.7[b]	0.74 J	0.48 J	0.53 J	0.54 J
1,1-Dichloroethene	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 UJ	50 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
Benzene	µg/L	1.0 U	2.4 J[b]	0.56 J[b]	1.0 U	1.0 U	1.0 U	0.54 J[b]	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	5.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	130[ab]	5.8	3.0	1.1	0.76 J	0.26 J	0.23 J	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	6.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	21[b]	5.0 U	5.2[b]	3.9[b]	2.8	2.8	0.41 J	0.25 J	1.0 U	0.22 J
Cyclohexane	µg/L	1.0 U	0.92 J	0.49 J	0.33 J	0.30 J	0.41 J	0.24 J	0.26 J	0.18 J	0.21 J
Dibromochloromethane	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	5.0 UJ	0.28 J	0.24 J	1.0 U	0.22 J	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Isopropyl benzene	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	5.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	5.0 UJ	4.6[b]	3.7	3.2	2.5	0.41 J	0.33 J	1.0 U	1.0 U
Toluene	µg/L	2.2	2.4 J	2.3	1.9	1.4	1.5	1.2	1.0	0.38 J	1.3
trans-1,2-Dichloroethene	µg/L	0.34 J	5.0 U	0.19 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	26[ab]	5.0 U	2.5[b]	2.3[b]	2.8[b]	2.7[b]	0.47 J[b]	0.34 J[b]	1.0 U	1.0 U
Vinyl chloride	µg/L	0.63 J[b]	5.0 UJ	3.7[ab]	4.1[ab]	5.0[ab]	4.3[ab]	0.29 J[b]	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	10 UJ	0.60 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ
Total VOCs (Detects)	µg/L	50.17	141.82	30.04	22.91	22.36	20.99	4.8	2.89	1.09	2.27

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-11**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**
Sample ID:		**GW-38443-120908-DD-184**	**GW-38443-120908-DD-185**	**GW-38443-120908-DD-186**	**GW-38443-120908-DD-187**	**GW-38443-120908-DD-188**	**GW-38443-111008-KMV-014**	**GW-38443-111008-KMV-015**	**GW-38443-111008-KMV-016**	**GW-38443-111008-KMV-017**	**GW-38443-111008-KMV-018**
Sample Date:		**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**
Sample Depth:		**77-82 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**20-25 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**
			Duplicate					**Duplicate**			
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	0.23 J	0.39 J	0.37 J	0.43 J
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	0.37 J	0.41 J	0.32 J	0.48 J	1.0 U	1.0 U	1.0 U	0.35 J	0.33 J	0.34 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	19	18	0.72 J	10 U	0.57 J
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	5.9 J	7.2 J	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 J	0.39 J	1.0 U	1.0 U	0.46 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 J	0.46 J	0.47 J	0.72 J
Cyclohexane	µg/L	0.16 J	0.18 J	0.18 J	0.12 J	0.18 J	1.0 UJ	1.0 UJ	0.13 J	0.12 J	0.31 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.33 J
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.54 J
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U
Toluene	µg/L	0.36 J	0.50 J	0.51 J	0.97 J	1.4	0.54 J	0.53 J	0.40 J	0.36 J	1.1
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**2.1[b]**	**2.1[b]**	**4.0[b]**	**4.4[b]**	**5.7[ab]**
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	0.58 J
Total VOCs (Detects)	µg/L	0.89	1.09	1.01	1.57	1.58	28.19	28.66	6.45	6.36	11.08

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**
Sample ID:		**GW-38443-111008-KMV-019**	**GW-38443-111108-KMV-020**	**GW-38443-111108-KMV-021**	**GW-38443-111108-KMV-022**	**GW-38443-111108-KMV-023**	**GW-38443-111208-KMV-024**	**GW-38443-111208-KMV-025**	**GW-38443-111208-KMV-026**	**GW-38443-111208-KMV-027**
Sample Date:		**11/10/2008**	**11/11/2008**	**11/11/2008**	**11/11/2008**	**11/11/2008**	**11/12/2008**	**11/12/2008**	**11/12/2008**	**11/12/2008**
Sample Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-55 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**	**70-75 ft BGS**	**75-80 ft BGS**	**80-85 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	0.49 J	1.1	1.1	0.38 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	0.36 J	0.55 J	0.64 J	0.60 J	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U
Acetone	µg/L	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzene	µg/L	0.25 J	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.66 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.18 J	0.14 J	1.0 UJ	0.13 J	1.0 UJ	1.0 UJ	1.0 UJ	0.14 J	1.0 UJ
Dibromochloromethane	µg/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	0.29 J	0.29 J	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.53 J	0.48 J	0.29 J	0.30 J	0.33 J	0.17 J	1.0 U	0.30 J	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	**6.0[ab]**	**5.6[ab]**	**5.7[ab]**	**1.4[b]**	**2.1[b]**	1.0 U	**0.45 J[b]**	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	8.76	8.38	8.06	2.81	2.84	0.17	0.45	0.44	ND

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-12	VAS-12	VAS-12	VAS-13	VAS-13	VAS-13	VAS-13	VAS-13	VAS-13	VAS-13
Sample ID:		GW-38443-111308-KMV-028	GW-38443-111308-KMV-029	GW-38443-111408-KMV-030	GW-38443-120108-DD-144	GW-38443-120208-DD-145	GW-38443-120208-DD-146	GW-38443-120208-DD-147	GW-38443-120208-DD-148	GW-38443-120208-DD-149	GW-38443-120208-DD-150
Sample Date:		11/13/2008	11/13/2008	11/14/2008	12/1/2008	12/2/2008	12/2/2008	12/2/2008	12/2/2008	12/2/2008	12/2/2008
Sample Depth:		85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	12-17 ft BGS	17-22 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS	42-47 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	50 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	50 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	0.16 J	5.0 U	0.13 J	1.0 U	0.27 J	0.14 J	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	0.28 J	180[b]	1.4	1.7	1.5	1.1	0.49 J	0.35 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 UJ	2.0 UJ	2.0 UJ	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	ND	ND	0.44	180	1.53	1.7	2	1.24	0.49	0.35

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-14**	**VAS-14**
Sample ID:		**GW-38443-120208-DD-151**	**GW-38443-120208-DD-152**	**GW-38443-120308-DD-153**	**GW-38443-120308-DD-154**	**GW-38443-120308-DD-155**	**GW-38443-120308-DD-156**	**GW-38443-120308-DD-157**	**GW-38443-120308-DD-158**	**GW-38443-111608-KMV-032**	**GW-38443-111608-KMV-033**
Sample Date:		**12/2/2008**	**12/2/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**12/3/2008**	**11/16/2008**	**11/16/2008**
Sample Depth:		**47-52 ft BGS**	**52-57 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**	**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	0.24 J
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.61 J	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Acetone	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.76 J[b]**	**0.67 J[b]**
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	0.21 J	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	1.0 U	1.1	0.96 J
Cyclohexane	µg/L	0.16 J	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 J	0.46 J
Toluene	µg/L	2.3	1.5	0.57 J	0.43 J	0.44 J	0.45 J	0.46 J	0.30 J	0.22 J	0.17 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	0.20 J
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.91 J[b]**	**0.85 J[b]**
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ
Total VOCs (Detects)	µg/L	2.46	1.71	0.74	0.43	0.44	0.45	0.7	0.3	4.5	3.55

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-14
Sample ID:		GW-38443-111608-KMV-034	GW-38443-111608-KMV-035	GW-38443-111608-KMV-036	GW-38443-111608-KMV-037	GW-38443-111608-KMV-038	GW-38443-111708-KMV-039	GW-38443-111708-KMV-040	GW-38443-111708-KMV-041	GW-38443-111808-KMV-042
Sample Date:		11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/17/2008	11/17/2008	11/17/2008	11/18/2008
Sample Depth:		35-40 ft BGS	40-45 ft BGS	40-45 ft BGS Duplicate	45-50 ft BGS	50-55 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	11 U	8.0 U	8.0 U	1.7 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	2.4
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	110 U	80 U	80 U	17 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	110 U	80 U	80 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	110 U	80 U	80 U	17 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	110 U	80 U	80 U	17 U
Benzene	µg/L	0.31 J	1.0 U	1.0 U	0.44 J	1.0 U	11 U	8.0 U	8.0 U	1.7 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 UJ
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
Chloroform (Trichloromethane)	µg/L	**0.28 J[b]**	0.22 J	0.22 J	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
cis-1,2-Dichloroethene	µg/L	2.1	1.8	2.0	**9.9[b]**	**5.1[b]**	**390[ab]**	**290[ab]**	**270[ab]**	**130 J[ab]**
Cyclohexane	µg/L	0.30 J	0.14 J	1.0 UJ	0.35 J	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
Ethylbenzene	µg/L	0.22 J	1.0 UJ	1.0 UJ	0.23 J	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	11 UJ	8.0 UJ	8.0 UJ	1.7 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	56 U	40 U	40 U	8.4 U
Methylene chloride	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	25 U	19 U	15 U	1.7 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	8.0 U	8.0 U	1.7 UJ
Toluene	µg/L	0.76 J	0.37 J	0.40 J	0.97 J	1.0 U	11 U	8.0 U	8.0 U	1.7 U
trans-1,2-Dichloroethene	µg/L	0.21 J	0.20 J	0.20 J	0.53 J	0.43 J	3.2 J	2.3 J	1.7 J	0.86 J
Trichloroethene	µg/L	**1.2[b]**	**0.87 J[b]**	**0.85 J[b]**	**2.6[b]**	**3.0[b]**	11 U	8.0 U	8.0 U	1.7 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**0.27 J[b]**	**120[ab]**	**50[ab]**	**50[ab]**	**28[ab]**
Xylenes (total)	µg/L	0.50 J	2.0 UJ	2.0 UJ	0.48 J	2.0 UJ	22 UJ	16 UJ	16 UJ	3.3 U
Total VOCs (Detects)	µg/L	5.88	3.6	3.67	15.76	8.8	513.2	342.3	321.7	161.26

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-14**	**VAS-14**	**VAS-14**	**VAS-14**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**	**VAS-15**
Sample ID:		**GW-38443-111808-KMV-043**	**GW-38443-111808-KMV-044**	**GW-38443-111808-KMV-045**	**GW-38443-111908-KMV-046**	**GW-38443-120908-KMV-073**	**GW-38443-120908-KMV-074**	**GW-38443-120908-KMV-075**	**GW-38443-120908-KMV-076**	**GW-38443-120908-KMV-077**
Sample Date:		**11/18/2008**	**11/18/2008**	**11/18/2008**	**11/19/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**	**12/9/2008**
Sample Depth:		**80-85 ft BGS**	**85-90 ft BGS**	**90-95 ft BGS**	**95-100 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**45-50 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	2.5	2.3	2.3	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	17 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	17 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	17 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	17 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.7 U	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.7 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	**0.78 J[b]**	**0.75 J[b]**	**0.30 J[b]**	**0.24 J[b]**	**0.23 J[b]**
Chloromethane (Methyl chloride)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	**120 J[ab]**	**74 J[ab]**	**75 J[ab]**	**28[b]**	2.2	2.0	**5.4[b]**	**7.9[b]**	**7.8[b]**
Cyclohexane	µg/L	1.7 U	1.0 U	1.0 U	0.22 J	0.14 J	1.0 U	0.34 J	0.46 J	0.45 J
Dibromochloromethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	0.20 J	0.20 J
Isopropyl benzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	8.4 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.7 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.7 U	0.17 J	1.0 U	0.41 J	0.25 J	0.17 J	0.54 J	0.71 J	0.64 J
trans-1,2-Dichloroethene	µg/L	0.52 J	0.49 J	0.40 J	0.39 J	0.25 J	0.25 J	0.38 J	0.42 J	0.38 J
Trichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	**14[ab]**	**13[ab]**	**18[ab]**	**16[ab]**	**16[ab]**
Vinyl chloride	µg/L	**28 J[ab]**	**13[ab]**	**14[ab]**	**2.1[ab]**	1.0 U	1.0 U	1.0 U	**1.5[b]**	**1.4[b]**
Xylenes (total)	µg/L	3.3 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ
Total VOCs (Detects)	µg/L	151.02	89.96	91.7	32.01	17.62	16.17	24.96	27.43	27.1

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15
Sample ID:		GW-38443-120908-KMV-078	GW-38443-120908-KMV-079	GW-38443-120908-KMV-080	GW-38443-120908-KMV-081	GW-38443-120908-KMV-082	GW-38443-120908-KMV-083	GW-38443-121008-KMV-084	GW-38443-121008-KMV-085	GW-38443-121008-KMV-086
Sample Date:		12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/10/2008	12/10/2008	12/10/2008
Sample Depth:		50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	50 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**0.50 J[b]**	**0.50 J[b]**	**0.87 J[b]**	**0.66 J[b]**	5.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
cis-1,2-Dichloroethene	µg/L	**30[b]**	**33[b]**	**13[b]**	**12[b]**	**9.8[b]**	**9.9[b]**	**28 J[b]**	**24[b]**	**130[ab]**
Cyclohexane	µg/L	0.39 J	0.42 J	0.55 J	0.57 J	0.47 J	0.42 J	0.30 J	0.27 J	5.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
Ethylbenzene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	5.0 UJ
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	5.0 U
Toluene	µg/L	0.38 J	0.44 J	0.38 J	0.44 J	0.45 J	0.41 J	0.49 J	0.27 J	5.0 U
trans-1,2-Dichloroethene	µg/L	0.43 J	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	0.21 J	5.0 U
Trichloroethene	µg/L	**2.9[b]**	**2.4[b]**	**2.7[b]**	**1.7[b]**	**2.1[b]**	**2.5[b]**	**3.5[b]**	**1.6[b]**	**6.9[ab]**
Vinyl chloride	µg/L	**29[ab]**	**24[ab]**	**30[ab]**	**29[ab]**	**16[ab]**	**15[ab]**	**27 J[ab]**	**28[ab]**	**28[ab]**
Xylenes (total)	µg/L	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	10 UJ
Total VOCs (Detects)	µg/L	63.1	60.75	46.63	43.71	29.32	28.73	60.4	55.01	164.9

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-15**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-15B**	**VAS-17**	**VAS-17**	**VAS-17**
Sample ID:		**GW-38443-121008-KMV-087**	**GW-38443-121317-KVM-001**	**GW-38443-121317-KVM-002**	**GW-38443-121417-KVM-003**	**GW-38443-121417-KVM-004**	**GW-38443-121517-KVM-005**	**GW-38443-112008-KMV-047**	**GW-38443-112008-KMV-048**	**GW-38443-120108-KMV-049**
Sample Date:		**12/10/2008**	**12/13/2017**	**12/13/2017**	**12/14/2017**	**12/14/2017**	**12/15/2017**	**11/20/2008**	**11/20/2008**	**12/1/2008**
Sample Depth:		**95-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**45-50 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 UJ	0.53 U	4.6 U	0.32 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	5.0 U	1.0 J	3.6 U	0.25 U	0.25 U	0.25 U	0.55 J	0.60 J	1.0 U
1,1-Dichloroethene	µg/L	5.0 U	0.45 U	3.9 U	0.27 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	0.45 U	3.9 U	0.27 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	5.0 U	0.43 U	3.7 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5.0 U	0.50 U	4.3 U	0.30 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	1.7 U	15 U	1.0 U	1.0 U	1.0 U	10 U	10 U	10 U
2-Hexanone	µg/L	50 U	2.1 U	18 U	1.2 U	1.2 U	1.2 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	1.2 U	10 U	0.71 U	0.71 U	0.71 U	10 U	10 U	10 U
Acetone	µg/L	50 U	2.9 U	25 U	1.8 U	1.8 U	1.8 U	10 U	10 U	10 UJ
Benzene	µg/L	5.0 U	0.47 U	4.0 U	0.28 U	0.28 U	0.28 U	**0.75 J[b]**	**0.65 J[b]**	0.27 J
Bromodichloromethane	µg/L	5.0 U	0.50 U	4.3 U	0.30 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	5.0 U	0.57 U	4.9 U	0.34 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	5.0 U	0.53 U	4.6 U	0.32 U	0.32 U	0.32 U	5.9	6.0	0.20 J
Chloroethane	µg/L	5.0 U	0.68 U	5.9 U	0.41 U	0.41 U	0.41 U	0.64 J	0.52 J	1.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	0.52 U	4.4 U	0.31 U	0.31 U	0.31 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	0.72 U	6.1 U	0.43 U	0.43 U	0.43 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	**150[ab]**	**47[b]**	**120[ab]**	**16[b]**	**6.8[b]**	0.78 J	0.26 J	0.23 J	1.0 U
Cyclohexane	µg/L	5.0 U	0.73 U	6.3 U	0.44 U	0.44 U	0.44 U	0.34 J	0.21 J	0.23 J
Dibromochloromethane	µg/L	5.0 U	0.42 U	3.6 U	0.25 U	0.25 U	0.25 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	5.0 UJ	0.43 U	3.7 U	0.26 U	0.26 U	0.26 U	0.20 J	0.20 J	1.0 U
Isopropyl benzene	µg/L	5.0 U	0.35 U	3.0 U	0.21 U	0.21 U	0.21 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	0.40 U	3.4 U	0.24 U	0.24 U	0.24 U	-	-	-
Methyl cyclohexane	µg/L	5.0 U	0.75 U	6.4 U	0.45 U	0.45 U	0.45 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	25 U	0.45 U	3.9 U	0.27 U	0.27 U	0.27 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	5.0 U	2.0	13 U	0.53 U	0.53 U	0.53 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	0.47 U	4.0 U	0.28 U	0.28 U	0.28 U	-	-	-
Styrene	µg/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	5.0 U	0.50 U	4.3 U	0.30 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	5.0 U	0.38 U	3.3 U	0.23 U	0.23 U	0.23 U	0.82 J	0.61 J	0.50 J
trans-1,2-Dichloroethene	µg/L	5.0 U	0.48 U	4.1 U	0.29 J	0.29 U	0.29 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	**8.9[ab]**	0.55 U	4.7 U	0.33 U	0.33 U	0.33 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**27[ab]**	**31[ab]**	**70[ab]**	**27[ab]**	**27[ab]**	**15[ab]**	**0.71 J[b]**	**0.85 J[b]**	**0.22 J[b]**
Xylenes (total)	µg/L	10 UJ	0.40 U	3.4 U	0.24 U	0.24 U	0.24 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	185.9	81	190	43.29	33.8	15.78	10.17	9.87	1.42

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-17	VAS-17
Sample ID:		GW-38443-120108-KMV-050	GW-38443-120108-KMV-051	GW-38443-120208-KMV-052	GW-38443-120208-KMV-053	GW-38443-120208-KMV-054	GW-38443-120208-KMV-055	GW-38443-120308-KMV-056	GW-38443-120308-KMV-057	GW-38443-120408-KMV-058
Sample Date:		12/1/2008	12/1/2008	12/2/2008	12/2/2008	12/2/2008	12/2/2008	12/3/2008	12/3/2008	12/4/2008
Sample Depth:		50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	65-70 ft BGS	70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.54 J	0.53 J	0.62 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.20 J	0.25 J	0.49 J
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	0.34 J	1.0 U	0.17 J	1.0 U	0.19 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**0.95 J[b]**	**1.0[b]**	**1.8[b]**	**1.9[b]**	**2.4[ab]**	**2.5[ab]**	**3.0[ab]**	**2.9[ab]**	**3.7[ab]**
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	0.95	1	2.31	1.9	2.57	2.5	3.93	3.68	4.81

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-17**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**	**VAS-19**
Sample ID:		**GW-38443-120408-KMV-059**	**GW-38443-121508-DD-189**	**GW-38443-121508-DD-190**	**GW-38443-121508-DD-191**	**GW-38443-121508-DD-192**	**GW-38443-121508-DD-193**	**GW-38443-121608-DD-194**	**GW-38443-121608-DD-195**	**GW-38443-121608-DD-196**	**GW-38443-121608-DD-197**
Sample Date:		**12/4/2008**	**12/15/2008**	**12/15/2008**	**12/15/2008**	**12/15/2008**	**12/15/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**	**12/16/2008**
Sample Depth:		**95-100 ft BGS**	**17-22 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**47-52 ft BGS Duplicate**	**52-57 ft BGS**	**57-62 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
1,1-Dichloroethane	µg/L	0.65 J	0.43 J	1.0 U	1.0 U	0.22 J	0.22 J	5.0 U	6.7 U	6.7 U	1.5 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U	33 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U	33 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U	33 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	50 U	67 U	67 U	33 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**4.9 J[b]**	**5.2 J[b]**	**5.1 J[b]**	**31[b]**
Cyclohexane	µg/L	0.13 J	0.14 J	0.20 J	0.18 J	0.20 J	0.17 J	5.0 U	6.7 U	6.7 U	3.3 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Methyl tert butyl ether (MTBE)	µg/L	0.47 J	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U	33 U	33 U	17 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Toluene	µg/L	0.24 J	2.3	1.6	1.2	0.82 J	0.90 J	5.0 U	6.7 U	6.7 U	3.3 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	6.7 U	6.7 U	3.3 U
Vinyl chloride	µg/L	**3.8[ab]**	**0.27 J[b]**	**0.91 J[b]**	**0.68 J[b]**	**40[ab]**	**40[ab]**	**140[ab]**	**140[ab]**	**150[ab]**	**88[ab]**
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	13 U	13 U	6.7 U
Total VOCs (Detects)	µg/L	5.29	3.14	2.71	2.06	41.24	41.29	144.9	145.2	155.1	120.5

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-19	VAS-20	VAS-20	VAS-20
Sample ID:		GW-38443-121608-DD-198	GW-38443-121608-DD-199	GW-38443-121608-DD-200	GW-38443-121608-DD-201	GW-38443-121608-DD-202	GW-38443-121608-DD-203	GW-38443-121608-DD-204	GW-38443-011109-KMV-229	GW-38443-011109-KMV-230	GW-38443-011109-KMV-231
Sample Date:		12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	12/16/2008	1/11/2009	1/11/2009	1/11/2009
Sample Depth:		62-67 ft BGS	67-72 ft BGS	72-77 ft BGS	77-82 ft BGS	82-87 ft BGS	87-92 ft BGS	92-97 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.4 J	1.8	2.1	3.0[b]	2.3	1.2	0.93 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	2.0 U	1.0 U	1.0 U	0.32 J[b]	0.25 J[b]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Acetone	µg/L	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U
Bromodichloromethane	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	0.70 J	0.38 J	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	30[b]	19[b]	19[b]	12[b]	7.7[b]	3.4	2.9	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	2.0 U	0.26 J	0.20 J	0.17 J	0.20 J	0.18 J	0.20 J	0.44 J	0.47 J	0.49 J
Dibromochloromethane	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	0.39 J	0.47 J
Isopropyl benzene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.71 J	0.61 J	0.68 J
Methyl tert butyl ether (MTBE)	µg/L	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.61 J	0.67 J	0.53 J	0.44 J	0.53 J	0.47 J	0.50 J	1.8	1.7	1.8
trans-1,2-Dichloroethene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	65 J[ab]	28[ab]	24[ab]	12[ab]	12[ab]	12[ab]	11[ab]	1.0 UJ	1.0 UJ	1.0 UJ
Xylenes (total)	µg/L	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.78 J	0.75 J	0.78 J
Total VOCs (Detects)	µg/L	97.71	50.11	46.19	27.93	22.98	17.25	15.53	4.18	4.37	4.22

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-20**	**VAS-20**	**VAS-20**	**VAS-20**	**VAS-20**	**VAS-21**	**VAS-21**	**VAS-21**	**VAS-21**
Sample ID:		**GW-38443-011109-KMV-232**	**GW-38443-011109-KMV-233**	**GW-38443-011109-KMV-234**	**GW-38443-011109-KMV-235**	**GW-38443-011109-KMV-236**	**GW-38443-102808-KMV-001**	**GW-38443-102908-KMV-002**	**GW-38443-103008-KMV-003**	**GW-38443-103008-KMV-004**
Sample Date:		**1/11/2009**	**1/11/2009**	**1/11/2009**	**1/11/2009**	**1/11/2009**	**10/28/2008**	**10/29/2008**	**10/30/2008**	**10/30/2008**
Sample Depth:		**37-42 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**25-30 ft BGS**	**44-49 ft BGS**	**49-54 ft BGS**	**54-59 ft BGS**
Sampling Company:		**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.78 J	0.87 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.1	0.29 J	0.43 J	1.0 U
Cyclohexane	µg/L	0.35 J	0.32 J	0.14 J	0.29 J	0.33 J	0.12 J	1.0 U	1.0 U	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	0.32 J	0.32 J	1.0 U	0.26 J	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	0.53 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.3	1.4	0.59 J	1.7	1.2	0.33 J	1.0 U	1.0 U	0.22 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**15[ab]**	**2.2[b]**	**0.53 J[b]**	1.0 U
Vinyl chloride	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	**1.4[b]**	**1.8[b]**	**0.76 J[b]**
Xylenes (total)	µg/L	0.56 J	0.51 J	2.0 U	0.72 J	0.62 J	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	3.06	2.55	0.73	3.75	3.34	18.55	3.89	2.76	0.98

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21	VAS-21B
Sample ID:		GW-38443-103008-KMV-005	GW-38443-103108-KMV-006	GW-38443-103108-KMV-007	GW-38443-110308-KMV-008	GW-38443-110308-KMV-009	GW-38443-110408-KMV-010	GW-38443-110408-KMV-011	GW-38443-110408-KMV-012	GW-38443-060209-DR-001
Sample Date:		10/30/2008	10/31/2008	10/31/2008	11/3/2008	11/3/2008	11/4/2008	11/4/2008	11/4/2008	6/2/2009
Sample Depth:		59-64 ft BGS	64-69 ft BGS	69-74 ft BGS	74-79 ft BGS	79-84 ft BGS	84-89 ft BGS	89-94 ft BGS	94-99 ft BGS	87-92 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 U
2-Hexanone	µg/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 UJ
Acetone	µg/L	10 U	10 U	14 U	10 U	14 U	10 U	10 U	100 U	17 U
Benzene	µg/L	1.0 U	2.0[b]	11[ab]	3.7[b]	1.4 U	1.0 U	1.7[b]	300[ab]	40[ab]
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Carbon disulfide	µg/L	0.49 J	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Chloroethane	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
cis-1,2-Dichloroethene	µg/L	0.73 J	9.9[b]	42[b]	12[b]	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Cyclohexane	µg/L	1.0 U	0.24 J	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 UJ	0.93 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 UJ	1.7 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 U	1.0 UJ	1.0 UJ	10 UJ	1.1 J
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	7.2 U	5.0 U	7.2 U	5.0 U	5.0 U	50 U	8.4 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 U	1.0 UJ	1.0 UJ	14 UJ	1.7 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.4 U	1.0 UJ	1.4 UJ	1.0 UJ	1.0 UJ	10 UJ	0.96 J
Toluene	µg/L	1.0 U	1.2	1.2 J	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.4 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.4 U	1.0 U	1.4 U	1.0 U	1.0 U	10 U	1.7 U
Vinyl chloride	µg/L	1.8[b]	7.1[ab]	37[ab]	12[ab]	35[ab]	38[ab]	0.32 J[b]	10 U	5.0[ab]
Xylenes (total)	µg/L	2.0 U	2.0 U	2.9 U	2.0 U	2.9 U	2.0 U	2.0 U	20 UJ	3.3 U
Total VOCs (Detects)	µg/L	3.02	20.44	91.2	27.7	35	38	2.02	300	49.39

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**
Sample ID:		**GW-38443-060209-DR-002**	**GW-38443-060309-DR-004**	**GW-38443-060309-DR-005**	**GW-38443-060309-DR-006**	**GW-38443-060309-DR-007**	**GW-38443-060309-DR-008**	**GW-38443-060409-DR-009**	**GW-38443-060409-DR-010**	**GW-38443-060409-DR-012**	**GW-38443-060409-DR-013**
Sample Date:		**6/2/2009**	**6/3/2009**	**6/3/2009**	**6/3/2009**	**6/3/2009**	**6/3/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**	**6/4/2009**
Sample Depth:		**92-97 ft BGS**	**97-102 ft BGS**	**97-102 ft BGS**	**102-107 ft BGS**	**107-112 ft BGS**	**112-117 ft BGS**	**117-122 ft BGS**	**122-127 ft BGS**	**127-132 ft BGS**	**132-137 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	33 U	200 U	200 U	200 U	1.8 J	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	33 U	200 U	200 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	33 UJ	200 UJ	200 UJ	200 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U
Acetone	µg/L	33 U	200 U	200 U	200 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	**95[ab]**	**580[ab]**	**550[ab]**	**540[ab]**	**4.8[b]**	**3.3[b]**	1.3 U	1.1 U	1.9 U	1.6 U
Bromodichloromethane	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.7 J	20 UJ	20 UJ	20 UJ	0.58 J	0.58 J	1.0 U	1.0 U	0.18 J	0.14 J
Dibromochloromethane	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.9 J	20 UJ	20 UJ	20 UJ	0.67 J	0.65 J	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	17 U	100 U	100 U	100 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	3.3 U	20 U	20 U	20 U	0.33 J	0.55 J	0.37 J	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.93 J	20 U	20 U	20 U	1.4	1.4	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	3.3 U	20 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**5.2[ab]**	20 U	20 U	20 U	1.0 U	1.0 U	6.7 U	5.5 U	**15[ab]**	**19[ab]**
Xylenes (total)	µg/L	6.7 U	40 U	40 U	40 U	2.0 U	0.49 J	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	104.73	580	550	540	9.58	6.97	0.37	ND	15.18	19.14

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-21B**
Sample ID:		**GW-38443-060409-DR-014**	**GW-38443-060409-DR-015**	**GW-38443-060509-DR-017**	**GW-38443-060509-DR-018**	**GW-38443-060509-DR-019**	**GW-38443-060509-DR-020**	**GW-38443-060509-DR-021**	**GW-38443-060509-DR-022**	**GW-38443-060509-DR-023**	**GW-38443-060609-DR-024**
Sample Date:		**6/4/2009**	**6/4/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/5/2009**	**6/6/2009**
Sample Depth:		**137-142 ft BGS**	**142-147 ft BGS**	**147-152 ft BGS**	**147-152 ft BGS**	**152-157 ft BGS**	**157-162 ft BGS**	**162-167 ft BGS**	**167-172 ft BGS**	**172-177 ft BGS**	**177-182 ft BGS**
					Duplicate						
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,1,2,2-Tetrachloroethane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,1-Dichloroethane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,1-Dichloroethene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2,4-Trichlorobenzene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2-Dichlorobenzene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,2-Dichloroethane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
1,4-Dichlorobenzene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	14 U	17 U	17 U	17 U	17 U	14 U	0.66 J	14 U	1.4 J	1.0 J
2-Hexanone	µg/L	14 U	17 U	17 U	17 U	17 U	14 U	10 U	14 U	17 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	14 U	17 U	17 U	17 U	17 U	14 U	10 U	0.57 J	2.0 J	0.71 J
Acetone	µg/L	14 U	17 U	17 U	17 U	17 U	14 U	10 U	14 U	17 U	17 U
Benzene	µg/L	1.4 U	1.7 U	**1.5 J[b]**	**1.5 J[b]**	**1.2 J[b]**	**0.78 J[b]**	**0.76 J[b]**	**0.95 J[b]**	**1.3 J[b]**	1.7 U
Bromodichloromethane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Carbon disulfide	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Chlorobenzene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Chloroethane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Chloroform (Trichloromethane)	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Chloromethane (Methyl chloride)	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
cis-1,2-Dichloroethene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Cyclohexane	µg/L	0.17 J	1.7 U	1.7 U	1.7 U	1.7 U	0.21 J	0.35 J	1.4 U	1.7 U	1.7 U
Dibromochloromethane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Ethylbenzene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	0.22 J	1.4 U	1.7 U	1.7 U
Isopropyl benzene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Methyl tert butyl ether (MTBE)	µg/L	7.2 U	8.4 U	8.4 U	8.4 U	8.4 U	7.2 U	5.0 U	7.2 U	8.4 U	8.4 U
Methylene chloride	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Tetrachloroethene	µg/L	1.4 U	1.7 U	1.7 UJ	1.7 UJ	1.7 UJ	1.4 UJ	1.0 UJ	1.4 UJ	1.7 UJ	1.7 U
Toluene	µg/L	1.4 U	1.7 U	0.91 J	0.87 J	0.70 J	0.87 J	1.3	0.83 J	1.3 J	0.85 J
trans-1,2-Dichloroethene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Trichloroethene	µg/L	1.4 U	1.7 U	1.7 U	1.7 U	1.7 U	1.4 U	1.0 U	1.4 U	1.7 U	1.7 U
Vinyl chloride	µg/L	**46[ab]**	**60[ab]**	**48[ab]**	**47[ab]**	**51[ab]**	**39[ab]**	**38[ab]**	**42[ab]**	**42[ab]**	**45[ab]**
Xylenes (total)	µg/L	2.9 U	3.3 U	3.3 U	3.3 U	3.3 U	2.9 U	0.84 J	2.9 U	3.3 U	3.3 U
Total VOCs (Detects)	µg/L	46.17	60	50.41	49.37	52.9	40.86	42.13	44.35	48	47.56

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-21B**	**VAS-21B**	**VAS-21B**	**VAS-22**	**VAS-22**	**VAS-22**	**VAS-22**	**VAS-22**	**VAS-22**	**VAS-22b**
Sample ID:		**GW-38443-060609-DR-025**	**GW-38443-060609-DR-026**	**GW-38443-060609-DR-027**	**GW-38443-121808-DD-205**	**GW-38443-121808-DD-206**	**GW-38443-121808-DD-207**	**GW-38443-121808-DD-208**	**GW-38443-121808-DD-209**	**GW-38443-121808-DD-210**	**GW-38443-092518-JC-183**
Sample Date:		**6/6/2009**	**6/6/2009**	**6/6/2009**	**12/18/2008**	**12/18/2008**	**12/18/2008**	**12/18/2008**	**12/18/2008**	**12/18/2008**	**9/25/2018**
Sample Depth:		**182-187 ft BGS**	**187-192 ft BGS**	**192-197 ft BGS**	**27-32 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**60-70 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.13 U
1,1-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0	0.94 J	1.1	0.37 J	0.50 J	0.45 J	0.17 U
1,1-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U
1,2-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U
1,4-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.2 U
2-Hexanone	µg/L	17 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.62 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.42 U
Acetone	µg/L	17 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.4 U
Benzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 U
Bromodichloromethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.50 J[b]**
Carbon disulfide	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U
Chlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.14 U
Chloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.83 U
Chloroform (Trichloromethane)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.3[b]**
Chloromethane (Methyl chloride)	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U
cis-1,2-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	0.60 J	0.53 J	0.58 J	1.0 U	0.87 J	0.98 J	0.16 U
Cyclohexane	µg/L	1.7 U	0.17 J	1.0 U	0.14 J	0.18 J	0.21 J	1.0 U	0.20 J	0.17 J	0.24 U
Dibromochloromethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 U
Ethylbenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.11 U
Isopropyl benzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.090 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	0.080 U
Methyl cyclohexane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	8.4 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.070 U
Methylene chloride	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	0.090 U
Styrene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Tetrachloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.15 U
Toluene	µg/L	0.82 J	0.83 J	0.69 J	3.8	3.2	6.2	2.2	1.0	1.4	1.6
trans-1,2-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U
Trichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.10 U
Vinyl chloride	µg/L	**45[ab]**	**30[ab]**	**29[ab]**	**0.66 J[b]**	**0.58 J[b]**	**0.75 J[b]**	**0.35 J[b]**	**0.64 J[b]**	**0.71 J[b]**	**6.3[ab]**
Xylenes (total)	µg/L	3.3 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.15 U
Total VOCs (Detects)	µg/L	47.64	31	29.69	6.2	5.43	8.84	2.92	3.21	3.71	9.7

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer
Sample Location:		VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-22b	VAS-23
Sample ID:		GW-38443-092618-JC-184	GW-38443-092618-JC-185	GW-38443-092718-JC-186	GW-38443-092718-JC-187	GW-38443-092718-JC-188	GW-38443-092718-JC-189	GW-38443-100218-JC-191	GW-38443-100218-JC-192	GW-38443-100318-JC-193	GW-38443-120408-DD-159
Sample Date:		9/26/2018	9/26/2018	9/27/2018	9/27/2018	9/27/2018	9/27/2018	10/2/2018	10/2/2018	10/3/2018	12/4/2008
Sample Depth:		70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	90-100 ft BGS Duplicate	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	27-32.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	1.0 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	1.0 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	1.0 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	1.0 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	10 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	10 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	10 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	**0.70 J[b]**	0.17 U	0.17 U	**0.52 J[b]**	0.17 U	1.0 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.31 J	0.28 U	0.28 U	0.28 U	0.28 U	1.0 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	1.0 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	1.0 U
Chloroform (Trichloromethane)	µg/L	**0.59 J[b]**	**0.26 J[b]**	0.13 U	0.13 J	**1.5[b]**	0.20 J	0.16 J	**1.6[b]**	**0.82 J[b]**	1.0 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.16 J
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.57 J	0.39 U	0.39 U	0.39 U	0.39 U	1.0 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	1.0 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	1.0 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.21 U	0.20 U	0.080 U	-
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	5.0 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	1.0 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	-
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.19 J	0.15 U	0.15 U	1.0 U
Toluene	µg/L	2.7	0.14 U	0.78 J	0.83 J	1.8	0.23 J	0.54 J	2.0	0.49 J	4.8
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 U
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	1.0 U
Vinyl chloride	µg/L	**3.4[ab]**	**4.1[ab]**	**2.7[ab]**	**3.2[ab]**	**8.1[ab]**	**2.0[b]**	**4.0[ab]**	**6.5[ab]**	**5.5[ab]**	1.0 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.21 U	0.20 U	0.15 U	2.0 U
Total VOCs (Detects)	µg/L	6.69	4.36	3.48	4.16	12.98	2.43	4.89	10.62	6.81	4.96

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**
Sample ID:		**GW-38443-120408-DD-160**	**GW-38443-120408-DD-161**	**GW-38443-120408-DD-162**	**GW-38443-120508-DD-163**	**GW-38443-120508-DD-164**	**GW-38443-120508-DD-165**	**GW-38443-120508-DD-166**	**GW-38443-120508-DD-167**	**GW-38443-120508-DD-168**	**GW-38443-120508-DD-169**
Sample Date:		**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**	**12/5/2008**
Sample Depth:		**27-32.5 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**57-62 ft BGS**	**62-67 ft BGS**	**67-72 ft BGS**	**72-77 ft BGS**
		Duplicate					**Duplicate**				
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	0.24 J	1.0 U	1.0 U	0.24 J	0.27 J	0.29 J	0.23 J	0.25 J	0.25 J	0.24 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.16 J	0.12 J	0.16 J	0.12 J	0.21 J	0.21 J	0.16 J	0.18 J	0.18 J	0.17 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	3.5	2.2	2.2	0.75 J	0.87 J	1.0	0.87 J	1.3	0.70 J	0.85 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.44 J[b]**	**0.72 J[b]**	**0.77 J[b]**	**0.89 J[b]**
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	3.9	2.32	2.36	1.11	1.35	1.5	1.7	2.45	1.9	2.15

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**
Sample ID:		**GW-38443-120508-DD-170**	**GW-38443-120508-DD-171**	**GW-38443-120608-DD-172**	**GW-38443-120608-DD-173**	**GW-38443-120608-DD-174**	**GW-38443-010709-DD-211**	**GW-38443-010709-DD-212**	**GW-38443-010709-DD-213**	**GW-38443-010709-DD-214**	**GW-38443-010709-DD-215**
Sample Date:		**12/5/2008**	**12/5/2008**	**12/6/2008**	**12/6/2008**	**12/6/2008**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**
Sample Depth:		**77-82 ft BGS**	**82-87 ft BGS**	**87-92 ft BGS**	**92-97 ft BGS**	**92-97 ft BGS Duplicate**	**27-32 ft BGS**	**32-37 ft BGS**	**32-37 ft BGS Duplicate**	**37-42 ft BGS**	**42-47 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13	13	12 J	6.8 J	8.3
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	0.33 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.4 J	10 U
Benzene	µg/L	0.28 J	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.19 J	0.19 J	0.17 J	0.22 J	0.21 J	0.56 J	0.39 J	0.38 J	0.44 J	0.36 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 J	0.22 J	0.21 J	0.23 J	0.20 J
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.76 J	1.0	0.46 J	0.58 J	0.64 J	4.4	3.0	3.1	2.5	2.4
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.80 J[b]**	**1.0[b]**	**0.96 J[b]**	**3.8 J[b]**	**4.5[b]**
Vinyl chloride	µg/L	**0.48 J[b]**	**0.47 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.61 J	2.0 U	2.0 U	0.50 J	2.0 U
Total VOCs (Detects)	µg/L	1.71	1.91	0.63	0.8	0.85	20.3	17.61	16.65	15.98	16.09

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-24**	**VAS-24**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**
Sample ID:		**GW-38443-010709-DD-216**	**GW-38443-010709-DD-217**	**GW-38443-120608-KMV-060**	**GW-38443-120608-KMV-061**	**GW-38443-120608-KMV-062**	**GW-38443-120708-KMV-063**	**GW-38443-120708-KMV-064**	**GW-38443-120708-KMV-065**	**GW-38443-120708-KMV-066**
Sample Date:		**1/7/2009**	**1/7/2009**	**12/6/2008**	**12/6/2008**	**12/6/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**	**12/7/2008**
Sample Depth:		**47-52 ft BGS**	**52-57 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**30-35 ft BGS Duplicate**	**50-55 ft BGS**	**55-60 ft BGS**	**60-65 ft BGS**	**65-70 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	6.5	5.2	2.7	13	14	0.29 J	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.64 J	0.54 J	0.34 J	0.34 J
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.22 J	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	1.4 J	1.2 J	10 U	10 U	0.57 J	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	4.2 J	3.9 J	10 UJ	1.4 J	1.3 J	1.3 J
Benzene	µg/L	1.0 U	1.0 U	1.0 U	**0.56 J[b]**	**0.53 J[b]**	**0.53 J[b]**	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	**0.31 J[b]**	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	**6.5[b]**	**0.28 J[b]**	**0.27 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.60 J	0.99 J	1.0 U	1.0 U	1.0 U	**10[b]**	**7.2[b]**	**27[b]**	**27[b]**
Cyclohexane	µg/L	0.32 J	0.43 J	1.0 U	0.57 J	0.66 J	0.22 J	0.33 J	0.28 J	0.28 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	0.21 J	1.0 UJ	0.45 J	0.42 J	1.0 U	1.0 UJ	1.0 UJ	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 U	0.61 J	0.72 J	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	µg/L	1.6	2.1	0.19 J	1.2	1.2	0.48 J	0.54 J	0.42 J	0.45 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7	1.2	4.0	4.2
Trichloroethene	µg/L	**12[ab]**	**11[ab]**	1.0 U	**3.5[b]**	**3.8[b]**	**0.33 J[b]**	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 UJ	1.8 J	0.94 J	2.0 U	2.0 UJ	2.0 UJ	2.0 U
Total VOCs (Detects)	µg/L	21.02	19.93	9.7	27.79	27.86	14.19	11.21	33.91	33.57

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-25	VAS-25	VAS-25	VAS-25	VAS-25	VAS-25	VAS-26	VAS-26	VAS-26
Sample ID:		GW-38443-120708-KMV-067	GW-38443-120708-KMV-068	GW-38443-120708-KMV-069	GW-38443-120708-KMV-070	GW-38443-120808-KMV-071	GW-38443-120808-KMV-072	GW-38443-110409-DR-057	GW-38443-110409-DR-058	GW-38443-110409-DR-059
Sample Date:		12/7/2008	12/7/2008	12/7/2008	12/7/2008	12/8/2008	12/8/2008	11/4/2009	11/4/2009	11/4/2009
Sample Depth:		70-75 ft BGS	75-80 ft BGS	80-85 ft BGS	85-90 ft BGS	90-95 ft BGS	95-100 ft BGS	26-31 ft BGS	26-31 ft BGS Duplicate	31-36 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 UJ	17 UJ	17 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 UJ	17 UJ	17 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	170 U	170 U	170 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	170 U	170 U	170 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	170 U	170 U	170 U
Acetone	µg/L	10 UJ	10 U	10 U	10 U	10 U	10 U	170 U	170 U	170 U
Benzene	µg/L	**0.53 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**5.9 J[ab]**	**5.9 J[ab]**	**6.2 J[ab]**
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 UJ	17 UJ	17 UJ
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 UJ	17 UJ	17 UJ
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
cis-1,2-Dichloroethene	µg/L	1.8	0.89 J	0.42 J	0.37 J	0.26 J	0.26 J	17 U	17 U	17 U
Cyclohexane	µg/L	0.21 J	0.28 J	1.0 U	0.18 J	0.18 J	0.16 J	220	230	230
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 UJ	17 UJ	17 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**330[b]**	**320[b]**	**350[b]**
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**67[b]**	**66[b]**	**70[b]**
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120	130	120
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	83 U	83 U	83 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	17 U	17 U
Toluene	µg/L	0.38 J	0.42 J	0.23 J	0.30 J	0.29 J	0.28 J	10 J	9.8 J	11 J
trans-1,2-Dichloroethene	µg/L	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	17 U	17 U
Vinyl chloride	µg/L	**0.22 J[b]**	**0.22 J[b]**	**0.30 J[b]**	**0.24 J[b]**	**6.5[ab]**	**6.8[ab]**	17 U	17 U	17 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	**1200[b]**	**1200[b]**	**1300[b]**
Total VOCs (Detects)	µg/L	3.46	1.81	0.95	1.09	7.23	7.5	1952.9	1961.7	2087.2

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**
Sample ID:		**GW-38443-110409-DR-060**	**GW-38443-110409-DR-061**	**GW-38443-110509-DR-062**	**GW-38443-110509-DR-063**	**GW-38443-110509-DR-064**	**GW-38443-110509-DR-065**	**GW-38443-110509-DR-066**	**GW-38443-110509-DR-067**	**GW-38443-110609-DR-069**	**GW-38443-110609-DR-070**
Sample Date:		**11/4/2009**	**11/4/2009**	**11/5/2009**	**11/5/2009**	**11/5/2009**	**11/5/2009**	**11/5/2009**	**11/5/2009**	**11/6/2009**	**11/6/2009**
Sample Depth:		**36-41 ft BGS**	**41-46 ft BGS**	**46-51 ft BGS**	**51-56 ft BGS**	**56-61 ft BGS**	**61-66 ft BGS**	**66-71 ft BGS**	**71-76 ft BGS**	**76-81 ft BGS**	**81-86 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
1,1,2,2-Tetrachloroethane	µg/L	120 UJ	120 UJ	120 U	120 U	50 U	50 U	12 U	17 U	29 UJ	25 UJ
1,1-Dichloroethane	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
1,1-Dichloroethene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
1,2,4-Trichlorobenzene	µg/L	120 UJ	120 UJ	120 U	120 U	50 U	50 U	12 U	17 U	29 UJ	25 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
1,2-Dichlorobenzene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
1,2-Dichloroethane	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
1,4-Dichlorobenzene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1200 UJ	1200 U	1200 U	1200 U	500 U	500 U	120 U	170 U	290 U	250 U
2-Hexanone	µg/L	1200 U	1200 U	1200 U	1200 U	500 U	500 U	120 U	170 U	290 U	250 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	1200 U	1200 U	1200 U	1200 U	500 U	500 U	120 U	170 U	290 U	250 U
Acetone	µg/L	1200 U	1200 U	1200 U	1200 U	500 U	500 U	120 U	170 U	290 U	250 U
Benzene	µg/L	**37 J[ab]**	120 U	120 U	120 U	50 U	50 U	12 U	17 U	**220[ab]**	**240[ab]**
Bromodichloromethane	µg/L	120 UJ	120 UJ	120 U	120 U	50 U	50 U	12 U	17 U	29 UJ	25 UJ
Carbon disulfide	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
Chlorobenzene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
Chloroethane	µg/L	120 UJ	120 UJ	120 U	120 U	50 U	50 U	12 U	17 U	29 UJ	25 UJ
Chloroform (Trichloromethane)	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
Chloromethane (Methyl chloride)	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
cis-1,2-Dichloroethene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	**23[b]**	**25[b]**	**290[ab]**	**340[ab]**
Cyclohexane	µg/L	620	610	410	500	390	350	64	93	250	200
Dibromochloromethane	µg/L	120 UJ	120 UJ	120 U	120 U	50 U	50 U	12 U	17 U	29 UJ	25 UJ
Ethylbenzene	µg/L	**1900[ab]**	**1600[ab]**	**1600[ab]**	**1600[ab]**	**890[ab]**	**710[ab]**	**81[b]**	**110[b]**	**260[b]**	**210[b]**
Isopropyl benzene	µg/L	**100 J[b]**	**98 J[b]**	**110 J[b]**	**120[b]**	**82[b]**	**75[b]**	17	23	**54[b]**	42
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	210	220	150	190	210	190	59	90	180	140
Methyl tert butyl ether (MTBE)	µg/L	620 U	620 U	620 U	620 U	250 U	250 U	62 U	83 U	140 U	120 U
Methylene chloride	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	120 U	120 U	120 UJ	120 UJ	50 UJ	50 UJ	12 UJ	17 UJ	29 U	25 U
Tetrachloroethene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
Toluene	µg/L	**320[b]**	**300[b]**	86 J	100 J	29 J	25 J	3.3 J	3.0 J	5.5 J	4.8 J
trans-1,2-Dichloroethene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
Trichloroethene	µg/L	120 U	120 U	120 U	120 U	50 U	50 U	12 U	17 U	29 U	25 U
Vinyl chloride	µg/L	120 UJ	120 U	120 U	120 U	50 U	50 U	**14[ab]**	**12 J[ab]**	**77[ab]**	**83[ab]**
Xylenes (total)	µg/L	**8100[b]**	**7100[b]**	**9400[b]**	**9200[b]**	**5100[b]**	**4000[b]**	**470[b]**	**650[b]**	**1400[b]**	**1100[b]**
Total VOCs (Detects)	µg/L	11287	9928	11756	11710	6701	5350	731.3	1006	2736.5	2359.8

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26	VAS-26
Sample ID:		GW-38443-110609-DR-071	GW-38443-110609-DR-072	GW-38443-110609-DR-073	GW-38443-110609-DR-074	GW-38443-110609-DR-075	GW-38443-110809-DR-076	GW-38443-110809-DR-078	GW-38443-110909-DR-079	GW-38443-110909-DR-080	GW-38443-110909-DR-081
Sample Date:		11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/8/2009	11/8/2009	11/9/2009	11/9/2009	11/9/2009
Sample Depth:		86-91 ft BGS	86-91 ft BGS Duplicate	91-96 ft BGS	96-101 ft BGS	101-106 ft BGS	106-116 ft BGS	116-126 ft BGS	126-136 ft BGS	136-146 ft BGS	146-156 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
1,1,2,2-Tetrachloroethane	µg/L	10 UJ	10 UJ	6.7 UJ	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ
1,1-Dichloroethane	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
1,1-Dichloroethene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
1,2,4-Trichlorobenzene	µg/L	10 UJ	10 UJ	6.7 UJ	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
1,2-Dichlorobenzene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
1,2-Dichloroethane	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
1,4-Dichlorobenzene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	100 U	100 U	67 U	33 U	20 U	25 UJ	100 U	200 U	62 U	40 U
2-Hexanone	µg/L	100 U	100 U	67 U	33 U	20 U	25 UJ	100 U	200 U	62 U	40 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	100 U	100 U	67 U	33 U	20 U	25 UJ	100 U	200 U	62 U	40 U
Acetone	µg/L	100 U	100 U	67 U	9.4 J	14 J	6.2 J	100 U	200 U	62 U	40 U
Benzene	µg/L	67[ab]	70[ab]	64[ab]	14[ab]	15[ab]	51[ab]	250[ab]	360[ab]	27[ab]	3.1 J[b]
Bromodichloromethane	µg/L	10 UJ	10 UJ	6.7 UJ	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ
Carbon disulfide	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	0.86 J	10 U	20 U	6.2 U	4.0 U
Chlorobenzene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
Chloroethane	µg/L	10 UJ	10 UJ	6.7 UJ	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ
Chloroform (Trichloromethane)	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
cis-1,2-Dichloroethene	µg/L	130[ab]	140[ab]	140[ab]	13[b]	16[b]	2.5 U	31[b]	120[ab]	12[b]	1.8 J
Cyclohexane	µg/L	57	58	45	35	40	2.6	10 U	20 U	6.2 U	4.0 U
Dibromochloromethane	µg/L	10 UJ	10 UJ	6.7 UJ	3.3 UJ	2.0 UJ	2.5 UJ	10 UJ	20 UJ	6.2 UJ	4.0 UJ
Ethylbenzene	µg/L	110[b]	110[b]	72[b]	27[b]	19[b]	2.5 U	10 U	20 U	6.2 U	4.0 U
Isopropyl benzene	µg/L	17	17	12	4.8	3.7	2.5 U	10 U	20 U	6.2 U	4.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	28	29	24	10	10	2.5 U	10 U	20 U	6.2 U	4.0 U
Methyl tert butyl ether (MTBE)	µg/L	50 U	50 U	33 U	17 U	10 U	12 U	50 U	100 U	31 U	20 U
Methylene chloride	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
Tetrachloroethene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
Toluene	µg/L	3.3 J	3.4 J	2.4 J	2.2 J	2.2	9.4	4.6 J	20 U	2.3 J	1.7 J
trans-1,2-Dichloroethene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
Trichloroethene	µg/L	10 U	10 U	6.7 U	3.3 U	2.0 U	2.5 U	10 U	20 U	6.2 U	4.0 U
Vinyl chloride	µg/L	96[ab]	100[ab]	110[ab]	42[ab]	58[ab]	2.5 UJ	66[ab]	260[ab]	140[ab]	87[ab]
Xylenes (total)	µg/L	610[b]	630[b]	400[b]	160[b]	120[b]	2.9 J	20 U	40 U	12 U	8.0 U
Total VOCs (Detects)	µg/L	1118.3	1157.4	869.4	317.4	297.9	72.96	351.6	740	181.3	93.6

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**
Sample ID:		**GW-38443-111009-DR-082**	**GW-38443-111009-DR-083**	**GW-38443-111009-DR-084**	**GW-38443-111009-DR-085**	**GW-38443-111109-DR-086**	**GW-38443-111109-DR-088**	**GW-38443-111109-DR-089**	**GW-38443-111209-DR-090**	**GW-38443-111609-DR-091**	**GW-38443-111609-DR-092**
Sample Date:		**11/10/2009**	**11/10/2009**	**11/10/2009**	**11/10/2009**	**11/11/2009**	**11/11/2009**	**11/11/2009**	**11/12/2009**	**11/16/2009**	**11/16/2009**
Sample Depth:		**156-166 ft BGS**	**156-166 ft BGS**	**166-176 ft BGS**	**176-186 ft BGS**	**186-196 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**41-46 ft BGS**	**71-76 ft BGS**	**71-76 ft BGS**
			Duplicate								**Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
1,1,2,2-Tetrachloroethane	µg/L	2.5 UJ	3.3 UJ	2.0 UJ	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	9.1 UJ	9.1 UJ
1,1-Dichloroethane	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
1,1-Dichloroethene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
1,2,4-Trichlorobenzene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 UJ	9.1 U	9.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
1,2-Dichlorobenzene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
1,2-Dichloroethane	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
1,4-Dichlorobenzene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	25 U	33 U	20 U	17 U	10 U	10 U	10 U	10 UJ	91 U	91 U
2-Hexanone	µg/L	25 U	33 U	20 U	17 U	10 U	10 U	10 U	10 UJ	91 U	91 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	25 U	33 U	20 U	17 U	10 U	10 U	10 U	10 UJ	91 U	91 U
Acetone	µg/L	25 U	33 U	20 U	17 U	10 U	1.4 J	10 U	10 U	91 U	91 U
Benzene	µg/L	2.5 U	3.3 U	**1.0 J[b]**	**0.69 J[b]**	**1.0[b]**	**0.84 J[b]**	1.0 U	1.0 U	9.1 U	9.1 U
Bromodichloromethane	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 UJ	9.1 U	9.1 U
Carbon disulfide	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
Chlorobenzene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
Chloroethane	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
Chloroform (Trichloromethane)	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	**0.65 J[b]**	**0.30 J[b]**	1.0 U	9.1 U	9.1 U
Chloromethane (Methyl chloride)	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
cis-1,2-Dichloroethene	µg/L	2.5 U	3.3 U	1.0 J	0.88 J	0.34 J	0.26 J	0.65 J	0.38 J	9.1 U	9.1 U
Cyclohexane	µg/L	2.5 U	3.3 U	0.35 J	0.30 J	0.55 J	0.54 J	0.22 J	0.15 J	9.1 U	9.1 U
Dibromochloromethane	µg/L	2.5 UJ	3.3 UJ	2.0 UJ	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
Ethylbenzene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	0.30 J	0.37 J	1.0 U	1.0 UJ	9.1 U	9.1 U
Isopropyl benzene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	0.53 J	1.0 U	1.0 U	9.1 U	9.1 U
Methyl tert butyl ether (MTBE)	µg/L	12 U	17 U	10 U	8.4 U	5.0 U	5.0 U	5.0 U	5.0 U	45 U	45 U
Methylene chloride	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 UJ	9.1 U	9.1 U
Tetrachloroethene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	0.31 J	1.0 U	9.1 U	9.1 U
Toluene	µg/L	1.2 J	1.2 J	1.2 J	1.5 J	1.7	1.5	1.0 U	6.7	9.1 U	9.1 U
trans-1,2-Dichloroethene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	9.1 U
Trichloroethene	µg/L	2.5 U	3.3 U	2.0 U	1.7 U	1.0 U	**0.42 J[b]**	**0.61 J[b]**	1.0 U	9.1 U	9.1 U
Vinyl chloride	µg/L	**65[ab]**	**63[ab]**	**44[ab]**	**35[ab]**	**34 J[ab]**	1.0 U	1.0 U	1.0 U	**230[ab]**	**250[ab]**
Xylenes (total)	µg/L	5.0 U	6.7 U	4.0 U	3.3 U	0.95 J	0.80 J	2.0 U	2.0 UJ	18 U	18 U
Total VOCs (Detects)	µg/L	66.2	64.2	47.55	38.37	38.84	7.31	2.09	7.23	230	250

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-27**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**
Sample ID:		**GW-38443-111709-DR-093**	**GW-38443-111709-DR-094**	**GW-38443-111709-DR-095**	**GW-38443-111709-DR-096**	**GW-38443-111809-DR-097**	**GW-38443-111909-DR-099**	**GW-38443-111909-DR-100**	**GW-38443-111909-DR-101**	**GW-38443-111909-DR-102**	**GW-38443-111909-DR-103**
Sample Date:		**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/17/2009**	**11/18/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**
Sample Depth:		**76-81 ft BGS**	**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**96-101 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**41-46 ft BGS**	**76-81 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	7.1 UJ	12 UJ	11 UJ	17 UJ	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	7.1 U	12 U	11 U	17 U	0.38 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	7.1 U	12 U	11 U	17 U	0.88 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	71 U	120 U	110 U	170 U	25 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	µg/L	71 U	120 U	110 U	170 UJ	25 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	71 U	120 U	110 U	170 UJ	25 U	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Acetone	µg/L	71 U	120 U	110 U	170 U	25 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	7.1 U	12 U	11 U	17 U	0.35 J	1.0 U	1.0 U	0.29 J	0.28 J	1.0 U
Bromodichloromethane	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	7.1 U	12 U	11 U	17 U	**0.91 J[b]**	**0.38 J[b]**	**0.45 J[b]**	**0.47 J[b]**	**0.48 J[b]**	**0.26 J[b]**
Chloromethane (Methyl chloride)	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	**210 J[ab]**	**360 J[ab]**	**330 J[ab]**	**470 J[ab]**	**150[ab]**	1.0 U	1.0 U	1.1	0.72 J	**17[b]**
Cyclohexane	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	0.36 J	0.37 J	0.22 J
Dibromochloromethane	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	0.27 J	0.29 J	1.0 U
Isopropyl benzene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	36 U	62 U	56 U	83 U	12 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	3.5 J	9.0 J	12	4.9 J	5.6	0.87 J	1.0	13	12	0.89 J
trans-1,2-Dichloroethene	µg/L	1.4 J	12 U	2.1 J	17 U	0.83 J	1.0 U	1.0 U	1.0 U	1.0 U	0.50 J
Trichloroethene	µg/L	7.1 U	12 U	11 U	17 U	2.5 U	1.0 U	1.0 U	**0.30 J[b]**	0.28 J	1.0 U
Vinyl chloride	µg/L	**180[ab]**	**140[ab]**	**75[ab]**	82 UJ	**32[ab]**	1.0 U	1.0 U	1.0 U	1.0 U	**0.44 J[b]**
Xylenes (total)	µg/L	14 U	25 U	22 U	33 U	5.0 U	2.0 U	2.0 U	0.69 J	0.71 J	2.0 U
Total VOCs (Detects)	µg/L	394.9	509	419.1	474.9	190.95	1.25	1.45	16.48	15.13	19.31

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**
Sample ID:		**GW-38443-111909-DR-104**	**GW-38443-112009-DR-105**	**GW-38443-112009-DR-106**	**GW-38443-112009-DR-107**	**GW-38443-112009-DR-109**	**GW-38443-112009-DR-110**	**GW-38443-112009-DR-111**	**GW-38443-112109-DR-112**	**GW-38443-112109-DR-113**	**GW-38443-112109-DR-114**
Sample Date:		**11/19/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/20/2009**	**11/21/2009**	**11/21/2009**	**11/21/2009**
Sample Depth:		**81-86 ft BGS**	**86-91 ft BGS**	**91-96 ft BGS**	**91-96 ft BGS Duplicate**	**96-101 ft BGS**	**101-106 ft BGS**	**106-116 ft BGS**	**116-126 ft BGS**	**126-136 ft BGS**	**136-146 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 UJ	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ	10 UJ
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.27 J[b]**
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	**17[b]**	**28[b]**	**26[b]**	**27[b]**	**19[b]**	**27[b]**	**28[b]**	**34[b]**	**28[b]**	**7.1[b]**
Cyclohexane	µg/L	0.13 J	0.16 J	0.15 J	0.17 J	1.0 U	0.14 J	0.19 J	0.13 J	0.14 J	1.0 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.5	1.2 U	1.9 U	1.9 U	1.0 U	1.8 U	1.8 U	0.74 J	0.89 J	2.3
trans-1,2-Dichloroethene	µg/L	0.49 J	0.69 J	0.63 J	0.62 J	0.33 J	0.35 J	0.83 J	1.7	0.91 J	0.26 J
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**0.47 J[b]**	**0.81 J[b]**	**0.76 J[b]**	**0.73 J[b]**	**1.5[b]**	**2.5[ab]**	**0.47 J[b]**	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	19.59	29.66	27.54	28.52	20.83	29.99	29.49	36.57	29.94	9.93

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-29**	**VAS-29**	**VAS-29**
Sample ID:		**GW-38443-112209-DR-115**	**GW-38443-112209-DR-116**	**GW-38443-112209-DR-117**	**GW-38443-112209-DR-118**	**GW-38443-112209-DR-119**	**GW-38443-112309-DR-120**	**GW-38443-030210-DR-001**	**GW-38443-030310-DR-002**	**GW-38443-030310-DR-003**	**GW-38443-030310-DR-004**
Sample Date:		**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/22/2009**	**11/23/2009**	**3/2/2010**	**3/3/2010**	**3/3/2010**	**3/3/2010**
Sample Depth:		**146-156 ft BGS**	**156-166 ft BGS**	**156-166 ft BGS**	**166-176 ft BGS**	**176-186 ft BGS**	**186-196 ft BGS**	**26-36 ft BGS**	**56-61 ft BGS**	**86-96 ft BGS**	**96-106 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	9.1 UJ	12 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	91 U	120 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	91 U	120 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	91 UJ	120 UJ
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	91 U	120 U
Benzene	µg/L	1.0 U	1.0 U	0.45 J	**0.75 J[b]**	**0.97 J[b]**	**0.88 J[b]**	1.0 U	1.0 U	9.1 U	12 U
Bromodichloromethane	µg/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 J	1.0 U	9.1 U	12 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
cis-1,2-Dichloroethene	µg/L	1.9	1.4	1.6	0.35 J	0.36 J	0.36 J	0.49 J	1.7	**250[ab]**	**350[ab]**
Cyclohexane	µg/L	1.0 U	0.14 J	1.0 U	0.26 J	0.38 J	0.26 J	1.0 U	1.0 U	9.1 U	12 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	9.1 U	12 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	45 U	62 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 UJ	0.53 J	1.0 UJ	0.54 J	1.0 U	1.0 U	9.1 U	12 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Toluene	µg/L	0.78 J	0.91 J	0.73 J	1.4	1.7	1.1	3.5	4.2	2.8 J	12 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	9.1 U	12 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.41 J[b]**	**96[ab]**	**140[ab]**
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	0.62 J	2.0 U	2.0 U	2.0 U	18 U	25 U
Total VOCs (Detects)	µg/L	2.68	2.45	2.78	3.29	4.29	3.14	4.19	6.31	348.8	490

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29	VAS-29
Sample ID:		GW-38443-030410-DR-005	GW-38443-030410-DR-006	GW-38443-030410-DR-007	GW-38443-030410-DR-008	GW-38443-030410-DR-009	GW-38443-030510-DR-010	GW-38443-030510-DR-011	GW-38443-030510-DR-012	GW-38443-030610-DR-013	GW-38443-030610-DR-014
Sample Date:		3/4/2010	3/4/2010	3/4/2010	3/4/2010	3/4/2010	3/5/2010	3/5/2010	3/5/2010	3/6/2010	3/6/2010
Sample Depth:		106-116 ft BGS	106-116 ft BGS	116-126 ft BGS	126-136 ft BGS	136-146 ft BGS	146-156 ft BGS	156-166 ft BGS	166-176 ft BGS	176-186 ft BGS	176-186 ft BGS
			Duplicate								Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	8.0 U	8.0 U	1.1 J	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ
Acetone	µg/L	80 U	80 U	57 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J[b]	0.63 J[b]
Bromodichloromethane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	0.22 J[b]	1.0 U	1.0 U
Carbon disulfide	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	0.34 J[b]	0.32 J[b]	0.70 J[b]	0.57 J[b]	0.85 J[b]	0.94 J[b]
Chloromethane (Methyl chloride)	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	210[ab]	220[ab]	160[ab]	74[ab]	19[b]	4.3[b]	1.5	0.25 J	1.0 U	1.0 U
Cyclohexane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	0.26 J	0.26 J	0.40 J	0.36 J
Dibromochloromethane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.20 J	0.21 J
Isopropyl benzene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	40 U	40 U	29 U	12 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	8.0 U	8.0 U	5.7 U	0.64 J	0.58 J	7.5	4.8	5.4	3.1	3.2
trans-1,2-Dichloroethene	µg/L	2.4 J	2.8 J	1.4 J	0.62 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	8.0 U	8.0 U	5.7 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	64[ab]	63[ab]	38[ab]	19[ab]	11[ab]	1.9[b]	0.75 J[b]	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	16 U	16 U	11 U	5.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.47 J	0.47 J
Total VOCs (Detects)	µg/L	276.4	285.8	200.5	94.26	30.92	14.02	8.01	6.7	5.6	5.81

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-030610-DR-016**	**GW-38443-030610-DR-017**	**GW-38443-030710-DR-018**	**GW-38443-030710-DR-019**	**GW-38443-030710-DR-020**	**GW-38443-030710-DR-021**	**GW-38443-030710-DR-022**	**GW-38443-030810-DR-023**	**GW-38443-030810-DR-024**	**GW-38443-030810-DR-025**
Sample Date:		**3/6/2010**	**3/6/2010**	**3/7/2010**	**3/7/2010**	**3/7/2010**	**3/7/2010**	**3/7/2010**	**3/8/2010**	**3/8/2010**	**3/8/2010**
Sample Depth:		**31-36 ft BGS**	**36-46 ft BGS**	**46-56 ft BGS**	**56-66 ft BGS**	**56-66 ft BGS Duplicate**	**66-76 ft BGS**	**76-86 ft BGS**	**91-96 ft BGS**	**96-106 ft BGS**	**106-116 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	0.59 J	1.3	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	1.3	0.30 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	0.96 J	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	**0.84 J[b]**	**0.50 J[b]**	**0.50 J[b]**	**0.49 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	**0.30 J[b]**	**0.35 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	**0.53 J[b]**	**0.58 J[b]**	**0.45 J[b]**	**0.30 J[b]**	1.0 U	1.0 U	**0.34 J[b]**
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	0.55 J	1.0 U	1.0 U
Cyclohexane	µg/L	0.27 J	0.72 J	0.37 J	0.30 J	0.31 J	0.15 J	0.16 J	1.0 U	1.0 U	0.15 J
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	0.39 J	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	0.36 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	0.59 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	0.43 J	0.44 J	0.44 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	4.8	4.7	2.3	1.6	1.5	6.1	5.1	0.81 J	1.0 U	0.82 J
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	**0.56 J[b]**	**0.56 J[b]**	**4.8[b]**	**6.9[ab]**	**0.65 J[b]**	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	0.71 J	0.50 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs (Detects)	µg/L	5.81	8.75	4.35	3.79	3.79	13.3	15.33	2.31	ND	1.31

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-30	VAS-31	VAS-31
Sample ID:		GW-38443-030810-DR-026	GW-38443-030910-DR-027	GW-38443-030910-DR-028	GW-38443-030910-DR-029	GW-38443-031010-DR-030	GW-38443-031010-DR-031	GW-38443-031010-DR-032	GW-38443-031010-DR-033	GW-38443-011918-KVM-043	GW-38443-011918-KVM-044
Sample Date:		3/8/2010	3/9/2010	3/9/2010	3/9/2010	3/10/2010	3/10/2010	3/10/2010	3/10/2010	1/19/2018	1/19/2018
Sample Depth:		116-126 ft BGS	126-136 ft BGS	136-146 ft BGS	146-156 ft BGS	156-166 ft BGS	156-166 ft BGS Duplicate	166-176 ft BGS	176-186 ft BGS	35-40 ft BGS	40-45 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U
1,4-Dichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	0.63 J	0.59 J	10 U	10 U	10 U	0.57 J	10 U	1.0 U	1.0 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.71 U	0.71 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.8 U	5.2 J
Benzene	µg/L	1.0 U	1.0 U	1.0 U	**0.47 J[b]**	0.26 J	0.26 J	**0.48 J[b]**	0.32 J	0.28 U	0.28 U
Bromodichloromethane	µg/L	1.0 U	**0.26 J[b]**	**0.21 J[b]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 U
Chlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	**0.29 J[b]**	**1.2[b]**	**0.51 J[b]**	**0.42 J[b]**	0.18 J	0.18 J	**0.47 J[b]**	0.17 J	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 UJ	0.43 UJ
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.54 J
Cyclohexane	µg/L	1.0 U	0.14 J	0.16 J	0.27 J	0.25 J	0.23 J	0.30 J	0.24 J	0.44 U	0.44 U
Dibromochloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	0.24 U	0.24 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.27 U	0.27 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	0.28 U	0.28 U
Styrene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U
Toluene	µg/L	0.37 J	0.97 J	7.2	3.4	2.3	2.1	2.0	1.2	0.43 J	1.4
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29 U	0.29 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.33 U	**8.3[ab]**
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.24 U	0.24 U
Total VOCs (Detects)	µg/L	0.66	3.2	8.67	4.56	2.99	2.77	3.82	1.93	0.43	15.44

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**	**VAS-31**	**VAS-32**	**VAS-32**	**VAS-32**
Sample ID:		**GW-38443-012218-KVM-045**	**GW-38443-012218-KVM-046**	**GW-38443-012218-KVM-047**	**GW-38443-012318-KVM-048**	**GW-38443-012318-KVM-049**	**GW-38443-012418-KVM-050**	**GW-38443-010818-KMV-023**	**GW-38443-010818-KMV-024**	**GW-38443-010818-KMV-025**
Sample Date:		**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/23/2018**	**1/23/2018**	**1/24/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**
Sample Depth:		**45-50 ft BGS**	**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	11 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.45 J	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	8.3 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 UJ	0.27 UJ	0.27 UJ	0.27 U	2.7 U	9.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.6 U	8.7 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	34 UJ
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	12 U	41 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	7.1 U	24 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	18 U	100 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	**0.63 J[b]**	2.8 U	9.3 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4 U	11 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1.3 J	3.2 U	11 U
Chloroethane	µg/L	0.41 UJ	0.41 UJ	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	4.1 U	14 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	3.1 U	10 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	4.3 U	14 U
cis-1,2-Dichloroethene	µg/L	0.53 J	0.65 J	1.6	**6.1[b]**	**5.0[b]**	**4.1[b]**	**21 J[b]**	**58 J[b]**	**83[ab]**
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.4 U	15 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	8.3 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.35 J	2.6 U	8.7 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.1 U	7.0 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.98 J	2.4 U	8.0 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.71 J	4.5 U	15 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	**15 J[ab]**	18 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.38 J	2.8 U	9.3 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.38 J	0.65 J	2.3 U	7.7 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.32 J	0.29 U	0.29 U	0.29 U	2.9 U	9.7 U
Trichloroethene	µg/L	**3.0[b]**	**2.8[b]**	**0.42 J[b]**	0.33 U	0.33 U	0.33 U	0.33 U	3.3 U	11 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	**4.0 J[ab]**	**75 J[ab]**	**400[ab]**
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.4 J	2.4 U	8.0 U
Total VOCs (Detects)	µg/L	3.53	3.45	2.47	6.42	5	4.48	31.4	148	483

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-32**	**VAS-33**	**VAS-33**	**VAS-33**	**VAS-33**
Sample ID:		**GW-38443-010818-KMV-026**	**GW-38443-010818-KMV-027**	**GW-38443-010918-KVM-028**	**GW-38443-010918-KVM-029**	**GW-38443-010918-KVM-030**	**GW-38443-011018-KVM-031**	**GW-38443-011018-KVM-032**	**GW-38443-011018-KVM-033**	**GW-38443-011018-KVM-034**
Sample Date:		**1/8/2018**	**1/8/2018**	**1/9/2018**	**1/9/2018**	**1/9/2018**	**1/10/2018**	**1/10/2018**	**1/10/2018**	**1/10/2018**
Sample Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**30-35 ft BGS Duplicate**	**35-40 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	1.2 U	0.34 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1-Dichloroethane	µg/L	1.3 U	0.65 J	0.60 J	0.67 J	0.45 J	0.25 U	0.30 J	0.30 J	0.25 U
1,1-Dichloroethene	µg/L	1.4 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	1.4 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 U	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.3 U	0.26 U	0.26 U	0.26 U	0.26 U	0.78 J	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	1.5 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	µg/L	1.2 U	0.23 U	0.23 U	0.23 U	0.23 U	0.45 J	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	5.1 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
2-Hexanone	µg/L	6.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	3.6 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	8.8 U	2.7 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	1.4 U	0.28 J	0.28 U	0.28 U	0.28 U	0.28 U	0.30 J	0.32 J	0.28 U
Bromodichloromethane	µg/L	1.5 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon disulfide	µg/L	1.7 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.38 J
Chlorobenzene	µg/L	1.6 U	0.32 U	0.32 U	0.32 U	0.32 U	2.4	0.76 J	0.77 J	0.32 U
Chloroethane	µg/L	2.1 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	1.6 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	2.2 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	**84[ab]**	**19[b]**	2.8	2.0	**4.8[b]**	3.2	**8.6[b]**	**8.8[b]**	**8.6[b]**
Cyclohexane	µg/L	2.2 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	1.3 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Ethylbenzene	µg/L	1.3 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	1.1 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	1.2 U	0.41 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methyl cyclohexane	µg/L	2.3 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	1.4 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	2.7 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	1.4 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	1.2 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	1.5 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	1.2 U	0.61 J	0.23 U	0.26 J	0.27 J	0.23 U	0.23 J	0.25 J	0.23 U
trans-1,2-Dichloroethene	µg/L	4.3 J	1.1	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Trichloroethene	µg/L	1.7 U	**5.8[ab]**	**5.2[ab]**	**6.9[ab]**	**4.5[b]**	0.33 U	**0.48 J[b]**	**0.46 J[b]**	0.33 U
Vinyl chloride	µg/L	**11[ab]**	**10[ab]**	**2.0[b]**	**0.63 J[b]**	0.45 U	**1.6[b]**	**14[ab]**	**15[ab]**	**9.5[ab]**
Xylenes (total)	µg/L	1.2 U	0.41 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Total VOCs (Detects)	µg/L	99.3	38.6	10.6	10.46	10.02	8.43	24.67	25.9	18.48

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer
Sample Location:		VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-34
Sample ID:		GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037	GW-38443-011118-KVM-038	GW-38443-011618-KVM-039	GW-38443-011618-KVM-040	GW-38443-011618-KVM-041	GW-38443-011718-KVM-042	GW-38443-021618-JC-078
Sample Date:		1/10/2018	1/11/2018	1/11/2018	1/11/2018	1/16/2018	1/16/2018	1/16/2018	1/17/2018	2/16/2018
Sample Depth:		40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	60-70 ft BGS	70-80 ft BGS	70-80 ft BGS Duplicate	80-90 ft BGS	90-100 ft BGS	30-35 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.33 U	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.46 U	0.80 U	0.53 U	0.53 U	1.6 U	0.53 U	0.32 U
1,1-Dichloroethane	µg/L	0.25 U	0.28 J	0.36 U	0.63 U	0.42 U	0.42 U	1.3 U	0.42 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.39 U	0.68 U	0.45 U	0.45 U	1.4 U	0.45 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.39 UJ	0.68 UJ	0.45 U	0.45 U	1.4 U	0.45 U	0.27 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.37 U	0.65 U	0.43 U	0.43 U	1.3 U	0.43 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.43 U	0.75 U	0.50 U	0.50 U	1.5 U	0.50 U	0.30 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.33 U	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 UJ	1.0 UJ	1.5 UJ	2.6 UJ	1.7 U	1.7 U	5.1 U	1.7 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.8 U	3.1 U	2.1 U	2.1 U	6.2 U	2.1 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	1.0 U	1.8 U	1.2 U	1.2 U	3.6 U	1.9 J	0.71 U
Acetone	µg/L	1.8 U	1.8 U	2.5 U	4.4 U	2.9 U	2.9 U	8.8 U	2.9 U	1.8 UJ
Benzene	µg/L	0.28 U	0.28 U	0.40 U	0.70 U	**0.52 J[b]**	0.47 U	1.4 U	0.47 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.43 U	0.75 U	0.50 U	0.50 U	1.5 U	0.50 U	0.30 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.49 U	0.85 U	0.57 U	0.57 U	1.7 U	0.57 U	0.34 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.46 U	0.80 U	0.53 U	0.53 U	1.6 U	0.53 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	0.59 U	1.0 U	0.68 UJ	0.68 UJ	2.1 UJ	0.68 U	0.41 UJ
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.44 U	0.78 U	0.52 U	0.52 U	1.6 U	0.52 U	**0.70 J[b]**
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.61 U	1.1 U	0.72 U	0.72 U	2.2 U	0.72 U	0.43 U
cis-1,2-Dichloroethene	µg/L	**11[b]**	**12[b]**	**45[b]**	**9.4[b]**	**29[b]**	**26[b]**	**36[b]**	**39[b]**	1.0
Cyclohexane	µg/L	0.44 U	0.44 U	0.63 U	1.1 U	0.73 U	0.73 U	2.2 U	0.73 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.36 U	0.63 U	0.42 U	0.42 U	1.3 U	0.42 U	0.25 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.37 U	0.65 U	0.43 U	0.43 U	1.3 U	0.43 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.30 U	0.53 U	0.35 U	0.35 U	1.1 U	0.35 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.34 U	0.60 U	0.40 U	0.40 U	1.2 U	0.40 U	0.24 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.64 U	1.1 U	0.75 U	0.75 U	2.3 U	0.75 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.39 U	0.68 U	0.45 U	0.45 U	1.4 U	0.45 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.76 U	1.3 U	4.1 U	4.1 U	12 U	2.4 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.40 U	0.70 U	0.47 U	0.47 U	1.4 U	0.47 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.33 U	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.43 U	0.75 U	0.50 U	0.50 U	1.5 U	0.50 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.33 U	0.58 U	0.38 U	0.38 U	1.2 U	0.38 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.41 U	0.73 U	0.48 U	0.48 U	1.5 U	0.48 U	0.29 U
Trichloroethene	µg/L	**0.38 J[b]**	0.33 U	0.47 U	0.83 U	0.55 U	0.55 U	1.7 U	0.55 U	**7.0[ab]**
Vinyl chloride	µg/L	**4.5[ab]**	**6.3[ab]**	**6.8[ab]**	**29[ab]**	**50[ab]**	**44[ab]**	**44[ab]**	**49[ab]**	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.34 U	0.60 U	0.40 U	0.40 U	1.2 U	0.40 U	0.24 U
Total VOCs (Detects)	µg/L	15.88	18.58	51.8	38.4	79.52	70	80	89.9	8.7

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34
Sample ID:		GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081	GW-38443-022018-JC-082	GW-38443-022018-JC-083	GW-38443-022018-JC-084	GW-38443-022118-JC-085	GW-38443-022118-JC-086	GW-38443-022118-JC-087	GW-38443-022118-JC-088
Sample Date:		2/16/2018	2/19/2018	2/19/2018	2/20/2018	2/20/2018	2/20/2018	2/21/2018	2/21/2018	2/21/2018	2/21/2018
Sample Depth:		35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	100-110 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.23 U	0.58 U	0.23 U	0.23 U	0.46 U	2.3 U	1.5 U	0.58 U	0.38 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.80 U	0.32 U	0.32 U	0.64 U	3.2 U	2.1 UJ	0.80 UJ	0.53 UJ	0.32 UJ
1,1-Dichloroethane	µg/L	0.25 U	0.63 U	0.25 U	0.28 J	0.50 U	2.5 U	1.7 U	0.63 U	0.42 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.68 U	0.27 U	0.27 U	0.54 U	2.7 U	1.8 U	0.68 U	0.45 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.68 U	0.27 U	0.27 U	0.54 U	2.7 U	1.8 U	0.68 U	0.45 U	0.27 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.65 U	0.26 U	0.26 U	0.52 U	2.6 U	1.7 U	0.65 U	0.43 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.75 U	0.30 U	0.30 U	0.60 U	3.0 U	2.0 U	0.75 U	0.50 U	0.30 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.58 U	0.23 U	0.23 U	0.46 U	2.3 U	1.5 U	0.58 U	0.38 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	2.6 U	1.0 U	1.0 U	2.0 U	10 U	6.8 U	2.6 U	1.7 U	1.0 U
2-Hexanone	µg/L	1.2 U	3.1 U	1.2 U	1.2 U	2.5 U	12 U	8.2 U	3.1 U	2.1 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	1.8 U	0.71 U	0.71 U	1.4 U	7.1 U	4.7 U	1.8 U	1.2 U	0.71 U
Acetone	µg/L	1.8 U	4.4 UJ	1.8 UJ	1.8 U	3.5 U	18 U	110 U	4.4 U	2.9 U	1.8 U
Benzene	µg/L	0.28 U	**0.71 J[b]**	0.28 U	0.28 U	0.56 U	2.8 U	1.9 U	0.70 U	0.47 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.75 U	0.30 U	0.30 U	0.60 U	3.0 U	2.0 U	0.75 U	0.50 U	0.30 U
Carbon disulfide	µg/L	0.34 U	0.85 U	0.34 U	1.2	0.85 J	3.4 U	2.3 U	0.85 U	0.57 U	0.34 U
Chlorobenzene	µg/L	0.32 U	0.80 U	0.32 U	0.32 U	0.64 U	3.2 U	2.1 U	0.80 U	0.53 U	0.32 U
Chloroethane	µg/L	0.41 UJ	1.0 UJ	0.41 UJ	0.41 U	0.82 U	4.1 U	2.7 U	1.0 U	0.68 U	0.41 U
Chloroform (Trichloromethane)	µg/L	**0.60 J[b]**	0.78 U	0.31 U	0.31 U	0.62 U	3.1 U	2.1 U	0.78 U	0.52 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	1.1 U	0.43 U	0.43 U	0.86 U	4.3 U	2.9 U	1.1 U	0.72 U	0.43 U
cis-1,2-Dichloroethene	µg/L	**5.0[b]**	**27[b]**	**4.8[b]**	**15[b]**	**53[b]**	**78[ab]**	**71[ab]**	**48[b]**	**19[b]**	**21[b]**
Cyclohexane	µg/L	0.44 U	1.1 U	0.44 U	0.44 U	0.88 U	4.4 U	2.9 U	1.1 U	0.73 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.63 U	0.25 U	0.25 U	0.50 U	2.5 U	1.7 U	0.63 U	0.42 U	0.25 U
Ethylbenzene	µg/L	0.26 U	0.65 U	0.26 U	0.26 U	0.52 U	2.6 U	1.7 U	0.65 U	0.43 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.53 U	0.21 U	0.21 U	0.42 U	2.1 U	1.4 U	0.53 U	0.35 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.60 U	0.24 U	0.24 U	0.48 U	2.4 U	1.6 U	0.60 U	0.40 U	0.24 U
Methyl cyclohexane	µg/L	0.45 U	1.1 U	0.45 U	0.45 U	0.90 U	4.5 U	3.0 U	1.1 U	0.75 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.68 U	0.27 U	0.27 U	0.54 U	2.7 U	1.8 U	0.68 U	0.45 U	0.27 U
Methylene chloride	µg/L	0.53 U	2.3 U	0.53 U	0.53 U	2.0	**9.8 J[a]**	5.8 U	2.4 U	2.3 U	0.53 U
o-Xylene	µg/L	0.28 U	0.70 U	0.28 U	0.28 U	0.56 U	2.8 U	1.9 U	0.70 U	0.47 U	0.28 U
Styrene	µg/L	0.23 U	0.58 U	0.23 U	0.23 U	0.46 U	2.3 U	1.5 U	0.58 U	0.38 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.75 U	0.30 U	0.30 U	0.60 U	3.0 U	2.0 U	0.75 U	0.50 U	0.30 U
Toluene	µg/L	0.85 J	3.9	0.42 J	0.23 U	0.46 U	2.3 U	1.5 UJ	0.69 J	0.52 J	0.53 J
trans-1,2-Dichloroethene	µg/L	0.29 J	0.73 U	0.36 J	0.74 J	1.4 J	2.9 U	1.9 U	0.73 U	0.48 U	0.29 U
Trichloroethene	µg/L	**18[ab]**	**57[ab]**	**21[ab]**	**7.1[ab]**	**0.72 J[b]**	3.3 U	2.2 U	**4.1[b]**	**0.79 J[b]**	**0.90 J[b]**
Vinyl chloride	µg/L	0.45 U	1.1 U	0.45 U	0.45 U	**2.3[ab]**	**110[ab]**	**64[ab]**	**39[ab]**	**14[ab]**	**17[ab]**
Xylenes (total)	µg/L	0.24 U	0.60 U	0.24 U	0.24 U	0.48 U	2.4 U	1.6 U	0.60 U	0.40 U	0.24 U
Total VOCs (Detects)	µg/L	24.74	88.61	26.58	24.32	60.27	197.8	135	91.79	34.31	39.43

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-34**	**VAS-34**	**VAS-34**	**VAS-34**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-022218-JC-090**	**GW-38443-022218-JC-091**	**GW-38443-022218-JC-092**	**GW-38443-022318-JC-094**	**GW-38443-121817-KVM-006**	**GW-38443-121817-KVM-007**	**GW-38443-121817-KVM-008**	**GW-38443-121817-KVM-009**	**GW-38443-121917-KVM-010**	**GW-38443-121917-KVM-011**
Sample Date:		**2/22/2018**	**2/22/2018**	**2/22/2018**	**2/23/2018**	**12/18/2017**	**12/18/2017**	**12/18/2017**	**12/18/2017**	**12/19/2017**	**12/19/2017**
Sample Depth:		**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**45-50 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U	0.92 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1.3 U	1.3 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U	1.1 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U	1.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.2 U	1.2 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U	0.92 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	5.4 J	4.1 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	4.9 U	4.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	2.8 U	2.8 U
Acetone	µg/L	1.8 UJ	1.8 UJ	1.8 UJ	1.8 U	1.8 U	1.8 UJ	1.8 U	1.8 U	7.0 U	7.0 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	1.1 U	1.1 U
Bromodichloromethane	µg/L	0.30 U	**1.1**[b]	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.2 U	1.2 U
Carbon disulfide	µg/L	0.60 J	0.34 U	0.34 U	0.37 J	0.34 U	0.34 U	0.34 U	0.55 J	1.4 U	1.4 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	1.3 U	1.3 U
Chloroethane	µg/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ	0.41 UJ	0.41 UJ	0.41 UJ	1.6 U	1.6 U
Chloroform (Trichloromethane)	µg/L	0.31 U	**1.8**[b]	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	1.2 U	1.2 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	1.7 U	1.7 U
cis-1,2-Dichloroethene	µg/L	2.6	3.0	**5.2**[b]	2.1	1.9 J	1.9	0.59 J	0.46 J	1.2 U	1.2 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	1.1	0.44 U	0.83 J	49	46
Dibromochloromethane	µg/L	0.25 U	0.85 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	1.0 U	1.0 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	5.9	5.8
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	5.0 J	4.3 J
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	13	12
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.36 J	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	1.1 U	1.1 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	2.1 U	2.1 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	1.1 U	1.1 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.92 U	0.92 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	1.2 U	1.2 U
Toluene	µg/L	0.23 U	0.24 J	0.23 J	0.23 U	0.23 U	0.24 J	0.28 J	0.23 U	0.92 U	0.92 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	1.2 U	1.2 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.3 U	1.3 U
Vinyl chloride	µg/L	**2.8**[ab]	**3.6**[ab]	**4.1**[ab]	**2.4**[ab]	0.45 U	0.45 U	0.45 U	0.45 U	1.8 U	1.8 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	5.0 J	4.3 J
Total VOCs (Detects)	µg/L	6	10.95	9.53	4.87	1.9	3.24	0.87	1.84	83.3	72.4

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**	**VAS-35**
Sample ID:		**GW-38443-121917-KVM-012**	**GW-38443-121917-KVM-013**	**GW-38443-122017-KVM-014**	**GW-38443-122017-KVM-015**	**GW-38443-122017-KVM-016**	**GW-38443-122117-KVM-017**	**GW-38443-122117-KVM-018**	**GW-38443-010318-KVM-019**	**GW-38443-010318-KVM-020**
Sample Date:		**12/19/2017**	**12/19/2017**	**12/20/2017**	**12/20/2017**	**12/20/2017**	**12/21/2017**	**12/21/2017**	**1/3/2018**	**1/3/2018**
Sample Depth:		**50-60 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	120 U	0.46 U	2.3 U	4.6 U	1.2 U	2.3 U	0.23 U	0.23 U	2.9 U
1,1,2,2-Tetrachloroethane	µg/L	160 U	0.64 U	3.2 U	6.4 U	1.6 U	3.2 U	0.32 U	0.32 UJ	4.0 UJ
1,1-Dichloroethane	µg/L	130 U	0.50 U	2.5 U	5.0 U	1.3 U	2.5 U	0.25 U	1.0	3.1 U
1,1-Dichloroethene	µg/L	140 U	0.54 U	2.7 U	5.4 U	1.4 U	2.7 U	0.27 U	0.27 U	3.4 U
1,2,4-Trichlorobenzene	µg/L	140 U	0.54 U	2.7 U	5.4 U	1.4 U	2.7 U	0.27 U	0.27 U	3.4 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0071 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	130 U	0.52 U	2.6 U	5.2 U	1.3 U	2.6 U	0.26 U	0.26 U	3.3 U
1,2-Dichloroethane	µg/L	150 U	0.60 U	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.30 U	3.8 U
1,4-Dichlorobenzene	µg/L	120 U	0.46 U	2.3 U	4.6 U	1.2 U	2.3 U	0.23 U	0.23 U	2.9 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	510 U	4.6 J	10 U	20 U	5.1 U	10 UJ	1.0 UJ	1.0 U	13 U
2-Hexanone	µg/L	620 U	2.5 U	12 U	25 U	6.2 U	12 UJ	1.2 UJ	1.2 U	15 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	360 U	1.4 U	7.1 U	14 U	3.6 U	7.1 U	0.71 U	0.71 U	8.9 U
Acetone	µg/L	880 U	15 J	18 U	35 U	8.8 U	18 U	2.1 J	1.8 U	22 U
Benzene	µg/L	140 U	**3.3[b]**	**36[ab]**	**14 J[ab]**	**35[ab]**	**26[ab]**	**1.3[b]**	0.41 J	**3.6 J[b]**
Bromodichloromethane	µg/L	150 U	0.60 U	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.30 U	3.8 U
Carbon disulfide	µg/L	170 U	0.68 U	3.4 U	6.8 U	1.7 U	3.4 U	0.34 U	0.34 U	4.3 U
Chlorobenzene	µg/L	160 U	0.64 U	3.2 U	6.4 U	1.6 U	3.2 U	0.32 U	0.32 U	4.0 U
Chloroethane	µg/L	210 U	0.82 U	4.1 UJ	8.2 UJ	2.1 UJ	4.1 UJ	0.41 UJ	0.41 U	5.1 U
Chloroform (Trichloromethane)	µg/L	160 U	0.62 U	3.1 U	6.2 U	1.6 U	3.1 U	0.31 U	0.31 U	3.9 U
Chloromethane (Methyl chloride)	µg/L	220 U	0.86 U	4.3 U	8.6 U	2.2 U	4.3 U	0.43 U	0.43 U	5.4 U
cis-1,2-Dichloroethene	µg/L	150 U	**12[b]**	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.63 J	**72[ab]**
Cyclohexane	µg/L	890	24	110	280	65	280 J	9.2 J	0.44 U	5.5 U
Dibromochloromethane	µg/L	130 U	0.50 U	2.5 U	5.0 U	1.3 U	2.5 U	0.25 U	0.25 U	3.1 U
Ethylbenzene	µg/L	**1600[ab]**	**21[b]**	2.6 U	5.2 U	1.3 U	2.6 U	0.26 U	0.26 U	3.3 U
Isopropyl benzene	µg/L	110 U	3.3	2.1 U	4.2 U	1.1 U	2.1 U	0.21 U	0.21 U	2.6 U
m&p-Xylenes	µg/L	4800	75	22	110	15	12 J	0.55 J	0.24 U	3.0 U
Methyl cyclohexane	µg/L	230 U	14	4.5 U	9.0 U	2.3 U	4.5 U	0.45 U	0.45 U	5.6 U
Methyl tert butyl ether (MTBE)	µg/L	140 U	0.54 U	2.7 U	5.4 U	1.4 U	2.7 U	0.27 U	0.27 U	3.4 U
Methylene chloride	µg/L	270 U	1.1 U	5.3 U	11 U	2.7 U	5.3 U	0.53 U	0.53 U	6.6 U
o-Xylene	µg/L	140 U	1.1 J	2.8 U	5.6 U	1.7 J	2.8 U	0.28 U	0.28 U	3.5 U
Styrene	µg/L	120 U	0.46 U	2.3 U	4.6 U	1.2 U	2.3 U	0.23 U	0.23 U	2.9 U
Tetrachloroethene	µg/L	150 U	0.60 U	3.0 U	6.0 U	1.5 U	3.0 U	0.30 U	0.30 U	3.8 U
Toluene	µg/L	120 U	0.46 U	10	14 J	16	20	0.87 J	0.23 U	2.9 U
trans-1,2-Dichloroethene	µg/L	150 U	0.58 U	2.9 U	5.8 U	1.5 U	2.9 U	0.29 U	0.29 U	3.6 U
Trichloroethene	µg/L	170 U	0.66 U	3.3 U	6.6 U	1.7 U	3.3 U	0.33 U	0.33 U	4.1 U
Vinyl chloride	µg/L	230 U	**6.7[ab]**	4.5 U	9.0 U	2.3 U	4.5 U	0.45 U	**2.4[ab]**	**190[ab]**
Xylenes (total)	µg/L	**4800[b]**	**76[b]**	**22[b]**	**110[b]**	17	12 J	0.55 J	0.24 U	3.0 U
Total VOCs (Detects)	µg/L	12090	256	200	528	149.7	350	14.57	4.44	265.6

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer
Sample Location:		VAS-35	VAS-35	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36	VAS-36
Sample ID:		GW-38443-010318-KVM-021	GW-38443-010418-KVM-022	GW-38443-100418-JC-194	GW-38443-100418-JC-195	GW-38443-100418-JC-196	GW-38443-100518-JC-197	GW-38443-100518-JC-199	GW-38443-100518-JC-200	GW-38443-100818-JC-201	GW-38443-100818-JC-202
Sample Date:		1/3/2018	1/4/2018	10/4/2018	10/4/2018	10/4/2018	10/5/2018	10/5/2018	10/5/2018	10/8/2018	10/8/2018
Sample Depth:		130-140 ft BGS	140-150 ft BGS	20-25 ft BGS	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	60-70 ft BGS
		Duplicate									
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	2.9 U	2.6 U	2.3	3.2 J	5.3	3.9 J	1.2	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	4.0 UJ	3.6 U	0.13 U	0.13 UJ	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	3.1 U	2.8 U	0.17 U	0.17 UJ	0.17 U	0.17 UJ	0.17 U	0.18 J	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	3.4 U	3.0 U	0.19 U	0.19 UJ	0.19 U	0.42 J	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	3.4 U	3.0 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 UJ	0.26 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	**0.036**[b]	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	3.3 U	2.9 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	3.8 U	3.3 U	0.21 UJ	0.21 UJ	0.21 UJ	0.21 UJ	0.21 U	0.21 U	0.21 UJ	0.21 UJ
1,4-Dichlorobenzene	µg/L	2.9 U	2.6 U	0.16 U	0.16 UJ	0.16 U	0.16 UJ	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	13 U	11 U	1.2 U	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	15 U	14 U	0.54 U	0.54 UJ	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	8.9 U	7.9 U	0.42 U	0.42 UJ	0.42 U	0.42 UJ	0.42 U	0.42 U	0.42 UJ	0.42 UJ
Acetone	µg/L	22 U	20 U	5.4 U	5.4 UJ	5.4 U	5.4 UJ	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	3.5 U	3.1 U	0.13 U	0.13 UJ	0.13 U	0.16 J	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	3.8 U	3.3 U	0.17 U	0.17 UJ	0.17 U	0.17 UJ	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	4.3 U	3.8 U	0.28 U	0.28 UJ	0.28 U	0.28 UJ	0.28 U	0.28 U	0.28 U	0.28 U
Chlorobenzene	µg/L	4.0 U	3.6 U	0.14 U	0.14 UJ	0.14 U	0.14 UJ	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	5.1 U	4.6 U	0.83 U	0.83 UJ	0.83 U	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	3.9 U	3.4 U	0.13 U	0.13 UJ	0.13 U	0.13 UJ	0.17 J	0.22 J	**0.30 J**[b]	**0.58 J**[b]
Chloromethane (Methyl chloride)	µg/L	5.4 U	4.8 U	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	**66**[b]	**6.6 J**[b]	0.16 U	0.16 UJ	0.16 U	0.16 UJ	0.16 U	0.16 U	0.55 J	**5.5**[b]
Cyclohexane	µg/L	5.5 U	4.9 U	0.24 U	0.24 UJ	0.24 U	0.24 UJ	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	3.1 U	2.8 U	0.39 U	0.39 UJ	0.39 U	0.39 UJ	0.39 U	0.39 U	0.39 U	0.39 U
Ethylbenzene	µg/L	3.3 U	2.9 U	0.11 U	0.11 UJ	0.11 U	0.11 UJ	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	2.6 U	2.3 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	3.0 U	2.7 U	0.080 U	0.080 UJ	0.080 U	0.14 J	0.080 U	0.080 U	0.080 U	0.080 U
Methyl cyclohexane	µg/L	5.6 U	5.0 U	0.33 U	0.33 UJ	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	3.4 U	3.0 U	0.070 U	0.070 UJ	0.070 U	0.070 UJ	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	6.6 U	5.9 U	2.6 U	2.6 UJ	2.6 U	2.6 UJ	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	3.5 U	3.1 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	2.9 U	2.6 U	0.10 U	0.10 UJ	0.10 U	0.10 UJ	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	3.8 U	3.3 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	2.9 U	2.6 U	0.35 U	0.50 UJ	0.45 U	0.53 J	0.42 J	0.41 J	0.41 J	0.92 J
trans-1,2-Dichloroethene	µg/L	3.6 U	3.2 U	0.19 U	0.19 UJ	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	4.1 U	3.7 U	0.10 U	**0.61 J**[b]	**1.1**[b]	**0.97 J**[b]	**1.7**[b]	**1.8**[b]	**1.0**[b]	**0.45 J**[b]
Vinyl chloride	µg/L	**170**[ab]	**140**[ab]	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	3.0 U	2.7 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 U
Total VOCs (Detects)	µg/L	236	146.6	2.336	3.81	6.4	6.12	3.49	2.61	2.26	7.45

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**
Sample ID:		**GW-38443-100818-JC-203**	**GW-38443-100818-JC-204**	**GW-38443-100918-JC-205**	**GW-38443-100918-JC-206**	**GW-38443-101018-JC-207**	**GW-38443-101018-JC-208**	**GW-38443-101018-JC-209**	**GW-38443-101118-JC-211**	**GW-38443-101118-JC-212**	**GW-38443-101118-JC-213**
Sample Date:		**10/8/2018**	**10/8/2018**	**10/9/2018**	**10/9/2018**	**10/10/2018**	**10/10/2018**	**10/10/2018**	**10/11/2018**	**10/11/2018**	**10/11/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
		Duplicate						**Duplicate**			
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.26 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 UJ	0.26 U	0.52 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 UJ	0.21 UJ	0.21 U	**0.82 J[b]**	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.32 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	2.3 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	1.1 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 UJ	0.42 UJ	0.42 U	0.84 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	11 U	5.4 U	6.5 J	7.0 J	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.33 J	**3.4[b]**	**2.3[b]**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	**1.9[b]**	**2.3[b]**	0.17 U	**1.2[b]**	0.17 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.56 U	0.28 U	0.28 U	0.95 J	0.28 U	0.76 J	0.28 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.28 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	1.7 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	**0.74 J[b]**	**0.27 J[b]**	**0.51 J[b]**	**0.81 J[b]**	**1.4[b]**	**4.4[b]**	**5.2[b]**	**0.29 J[b]**	**3.3[b]**	**0.53 J[b]**
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	**5.8[b]**	**5.9[b]**	**8.8[b]**	**54[b]**	2.0	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	**0.96 J[b]**	**1.2[b]**	0.39 U	**0.88 J[b]**	0.39 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.22 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.16 U	0.080 U	0.080 U	0.080 U	0.080 U	0.11 J	0.080 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.66 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.14 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	5.2 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.18 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.23 U	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.97 J	0.66 J	0.25 U	0.28 U	0.39 J	0.45 J	0.51 J	0.14 U	0.29 J	0.15 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.38 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	**0.39 J[b]**	0.10 U	0.10 U	0.20 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	µg/L	0.20 U	**3.1[ab]**	**8.2[ab]**	**27[ab]**	**39[ab]**	**13[ab]**	**13[ab]**	**3.7[ab]**	**1.5[b]**	**1.3[b]**
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.30 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Total VOCs (Detects)	µg/L	7.9	10.26	20.91	84.93	42.79	27.21	30.16	3.99	8.04	1.98

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37	VAS-37
Sample ID:		GW-38443-091818-JC-172	GW-38443-091918-JC-173	GW-38443-091918-JC-174	GW-38443-091918-JC-175	GW-38443-092018-JC-176	GW-38443-092018-JC-177	GW-38443-092018-JC-179	GW-38443-092118-JC-180	GW-38443-092418-JC-181	GW-38443-092418-JC-182
Sample Date:		9/18/2018	9/19/2018	9/19/2018	9/19/2018	9/20/2018	9/20/2018	9/20/2018	9/21/2018	9/24/2018	9/24/2018
Sample Depth:		25-30 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.96 UJ	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.52 UJ	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	1.5 J	0.17 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.74 J
1,1-Dichloroethene	µg/L	0.76 UJ	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.0 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.1 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.84 UJ	1.2[b]	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	µg/L	0.64 UJ	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	4.6 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	2.2 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	21 J	1.2 J	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	22 UJ	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	1.1 J[b]	0.13 U	0.13 U	0.21 U	0.13 U	0.13 U	0.13 U	0.42 J	0.13 U	0.25 J
Bromodichloromethane	µg/L	0.68 UJ	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	1.1 UJ	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Chlorobenzene	µg/L	10 J[b]	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.36 J
Chloroethane	µg/L	3.3 UJ	1.4	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.52 UJ	0.36 J[b]	0.13 U	0.24 J[b]	0.25 J[b]	0.27 J[b]	0.27 J[b]	0.13 J	0.13 U	0.26 J[b]
Chloromethane (Methyl chloride)	µg/L	0.80 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.64 UJ	0.21 J	0.16 U	0.41 J	11[b]	11[b]	13[b]	17[b]	9.3[b]	11[b]
Cyclohexane	µg/L	0.96 UJ	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	1.6 UJ	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Ethylbenzene	µg/L	4.5 J[b]	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.13 J
Isopropyl benzene	µg/L	1.7 J	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	12 J	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.18 J
Methyl cyclohexane	µg/L	1.3 UJ	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.28 UJ	0.070 U	0.070 U	0.070 U	0.11 J	0.16 J	0.21 J	0.12 J	0.15 J	0.070 U
Methylene chloride	µg/L	10 UJ	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	6.6 J	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	0.40 UJ	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.60 UJ	0.15 U	0.15 U	0.15 U	2.5 U	2.5 U	2.5 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	82 J	1.6	0.14 U	1.8	1.2	1.5	8.1	0.68 J	6.6	5.0
trans-1,2-Dichloroethene	µg/L	0.76 UJ	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	2.4 J[b]	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.31 U	0.10 U	0.10 U
Vinyl chloride	µg/L	0.80 UJ	0.55 J[b]	0.20 U	2.6[ab]	2.8[ab]	2.6[ab]	2.3[ab]	3.2[ab]	2.5[ab]	1.7[b]
Xylenes (total)	µg/L	19 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.18 J
Total VOCs (Detects)	µg/L	162.9	6.69	ND	5.05	15.36	15.53	23.88	21.55	18.55	19.8

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38
Sample ID:		GW-038443-020718-KVM-066	GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070	GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074
Sample Date:		2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/8/2018	2/8/2018	2/8/2018	2/9/2018
Sample Depth:		15-20 ft BGS	20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	15 J	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	8.0 U	13 U	0.32 U
1,1-Dichloroethane	µg/L	0.25 U	0.47 J	0.48 J	2.0	0.72 J	0.25 U	13 J[b]	23 J[b]	1.1
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	6.8 U	11 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	6.8 UJ	11 UJ	0.27 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	6.5 U	10 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	9.2 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.2 J	1.0 U	26 U	41 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	31 U	49 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	18 U	28 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	44 UJ	70 UJ	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	7.0 U	11 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.36 J[b]	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	8.5 U	14 U	0.34 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.36 J	1.5	8.0 U	13 U	0.32 U
Chloroethane	µg/L	0.69 J	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ	10 UJ	16 UJ	0.70 J
Chloroform (Trichloromethane)	µg/L	0.31 U	0.32 J[b]	0.31 U	0.31 U	0.31 U	0.31 U	7.8 U	12 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	11 U	17 U	0.43 U
cis-1,2-Dichloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	190[ab]	520 J[ab]	12[b]
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	11 U	18 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.32 J	0.25 U	0.25 U	0.25 U	0.25 U	6.3 U	10 U	0.25 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	6.5 U	10 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	5.3 U	8.4 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.0 U	9.6 U	0.24 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	11 U	18 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	6.8 U	11 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	22 U	36 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	7.0 U	11 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	9.2 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U
Toluene	µg/L	0.50 J	1.1	0.82 J	0.83 J	0.23 U	0.32 J	5.8 U	9.2 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	7.3 U	12 U	0.29 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	8.3 U	13 U	0.33 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	230[ab]	270 J[ab]	20[ab]
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.0 U	9.6 U	0.24 U
Total VOCs (Detects)	µg/L	1.19	2.57	1.3	2.83	2.28	1.82	433	828	33.8

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-38	VAS-38	VAS-38	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39	VAS-39
Sample ID:		GW-38443-021318-JC-075	GW-38443-021318-JC-076	GW-38443-021418-JC-077	GW-38443-012219-JC-214	GW-38443-012319-JC-215	GW-38443-012319-JC-216	GW-38443-012319-JC-217	GW-38443-012319-JC-218	GW-38443-012919-JC-219	GW-38443-012919-JC-220
Sample Date:		2/13/2018	2/13/2018	2/14/2018	1/22/2019	1/23/2019	1/23/2019	1/23/2019	1/23/2019	1/29/2019	1/29/2019
Sample Depth:		70-80 ft BGS	80-90 ft BGS	90-100 ft BGS	5-10 ft BGS	10-15 ft BGS	15-20 ft BGS	20-25 ft BGS	25-30 ft BGS	30-40 ft BGS	30-40 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.24 U	0.24 U	0.24 U	0.28 J	0.64 J	0.79 J	0.82 J
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.17 U	0.17 U	0.17 U	0.17 U	0.23 J	0.27 J	0.27 J
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 U	0.27 U	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.42 U	0.42 UJ	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U
Acetone	µg/L	1.8 U	1.8 U	1.8 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.13 U	0.13 U	0.13 U	0.20 J	0.13 U	0.17 J	0.14 J
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.41 U	0.49 J	0.41 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.13 U	0.13 U	0.13 U	**0.45 J[b]**	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.41 J	0.62 J	2.1	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.15 J	0.080 U	0.080 U	0.11 J	0.080 U	0.080 U	0.080 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.15 UJ	0.36 J	0.79 J	0.59 J	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.23 U	0.34 J	0.23 U	0.22 J	0.27 J	0.30 J	0.47 J	0.32 J	0.26 J	0.29 J
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	0.29 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.10 U	0.10 U	0.21 J	**0.67 J[b]**	**1.8[b]**	**2.7[b]**	**2.8[b]**
Vinyl chloride	µg/L	**0.81 J[b]**	**1.5[b]**	**0.52 J[b]**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.15 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Total VOCs (Detects)	µg/L	1.22	2.95	2.62	0.52	0.63	1.3	2.77	2.99	4.19	4.32

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**
Sample ID:		**GW-38443-020419-JC-221**	**GW-38443-020519-JC-222**	**GW-38443-020519-JC-223**	**GW-38443-020519-JC-224**	**GW-38443-022019-JC-225**	**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**	**GW-38443-091018-JC-159**
Sample Date:		**2/4/2019**	**2/5/2019**	**2/5/2019**	**2/5/2019**	**2/20/2019**	**9/7/2018**	**9/7/2018**	**9/7/2018**	**9/10/2018**	**9/10/2018**
Sample Depth:		**40-50 ft BGS**	**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.37 J	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	0.27 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.28 J
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 J	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 UJ	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.22 J	0.13 U	0.13 U	**0.89 J[b]**	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	**0.39 J[b]**
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.20 J	**6.6[b]**	**2.8[b]**	**1.1[b]**	**0.83 J[b]**	**0.90 J[b]**
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.20 J	0.16 U	0.16 U	0.57 UJ	0.16 U	0.16 U	0.16 U	0.16 U	0.28 J
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.14 J	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.27 J	0.080 U	0.14 J
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 UJ	0.15 U	0.17 J	0.29 J	0.22 J	0.15 U
Toluene	µg/L	0.28 J	1.1	1.1	0.64 J	0.30 J	0.16 J	0.21 J	0.84 J	0.45 J	2.0
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	**2.4[b]**	**0.44 J[b]**	**0.32 J[b]**	**0.60 J[b]**	0.14 J	0.10 U	0.10 U	0.10 U	0.20 J	**1.7[b]**
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.27 J	0.15 U	0.15 U
Total VOCs (Detects)	µg/L	3.32	1.74	1.42	1.24	1.31	6.76	3.18	3.8	1.7	5.69

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40	VAS-40
Sample ID:		GW-38443-091118-JC-160	GW-38443-091118-JC-161	GW-38443-091118-JC-162	GW-38443-091118-JC-163	GW-38443-091218-JC-165	GW-38443-091218-JC-166	GW-38443-091318-JC-167	GW-38443-091318-JC-168	GW-38443-091418-JC-169	GW-38443-091418-JC-170
Sample Date:		9/11/2018	9/11/2018	9/11/2018	9/11/2018	9/12/2018	9/12/2018	9/13/2018	9/13/2018	9/14/2018	9/14/2018
Sample Depth:		60-70 ft BGS	70-80 ft BGS	80-90 ft BGS	80-90 ft BGS Duplicate	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS	120-130 ft BGS	130-140 ft BGS	140-150 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	0.26 J	0.17 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	**0.18 J[b]**	**0.79 J[b]**	**0.18 J[b]**	0.17 U	0.17 U	**0.30 J[b]**
Carbon disulfide	µg/L	0.28 U	0.28 U	0.53 J	0.97 J	0.28 U	0.34 J	0.28 U	0.28 U	0.28 U	0.28 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	**0.66 J[b]**	**0.44 J[b]**	**0.24 J[b]**	**0.25 J[b]**	**0.60 J[b]**	**1.7[b]**	**0.67 J[b]**	**0.40 J[b]**	**1.0 J[b]**	**1.1 J[b]**
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	2.1	2.0	0.16 U	0.16 U	0.16 U	0.18 J	0.66 J	**8.6[b]**	**4.2 J[b]**	0.35 J
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	**0.92 J[b]**	0.39 U	0.39 U	0.39 U	0.39 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.14 J	0.080 U	0.12 J	0.080 U	0.080 U	0.080 U	0.080 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.17 J	0.22 J	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.14 J	0.33 J	4.8	5.1	1.2	2.8	0.25 J	0.51 J	0.25 J	5.0 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.29 J	0.19 U	0.19 U
Trichloroethene	µg/L	**0.64 J[b]**	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Total VOCs (Detects)	µg/L	3.97	3.16	5.57	6.46	1.98	6.85	1.76	9.8	5.45	6.75

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-42	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42	VAS-42
Sample ID:		GW-38443-081518-JC-120	GW-38443-081618-JC-121	GW-38443-081618-JC-122	GW-38443-081618-JC-123	GW-38443-081718-JC-124	GW-38443-081718-JC-125	GW-38443-081718-JC-126	GW-38443-082018-JC-127	GW-38443-082118-JC-128	GW-38443-082118-JC-130
Sample Date:		8/15/2018	8/16/2018	8/16/2018	8/16/2018	8/17/2018	8/17/2018	8/17/2018	8/20/2018	8/21/2018	8/21/2018
Sample Depth:		30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	80-90 ft BGS	90-100 ft BGS	100-110 ft BGS	110-120 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	8.0 U	4.8 U	4.0 U	2.4 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	4.3 U	4.2 J[b]	2.2 U	1.3 U
1,1-Dichloroethane	µg/L	0.18 J	0.20 J	0.18 J	0.25 J	0.17 U	0.23 J	5.7 U	3.4 U	2.8 U	1.7 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	6.3 U	3.8 U	3.2 U	1.9 U
1,2,4-Trichlorobenzene	µg/L	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	8.7 U	5.3 J[b]	4.3 U	2.6 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U
1,2-Dichloroethane	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	7.0 U	4.2 U	3.5 U	2.1 U
1,4-Dichlorobenzene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	5.3 U	3.2 U	2.7 U	1.6 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	39 U	23 U	19 U	12 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	18 U	11 J[b]	9.0 U	5.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	14 U	13 J	7.0 U	4.2 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	180 U	110 U	90 U	54 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	4.3 U	2.6 U	2.2 U	1.3 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	5.7 U	3.4 U	2.8 U	1.7 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.42 J	0.45 J	9.3 U	5.6 U	4.7 U	2.8 U
Chlorobenzene	µg/L	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	4.7 U	2.8 U	2.3 U	1.4 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	28 U	17 U	14 U	8.3 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.31 J[b]	0.37 J[b]	4.3 U	2.6 U	2.2 U	1.3 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	6.7 U	4.0 U	3.3 U	2.0 U
cis-1,2-Dichloroethene	µg/L	1.7	3.4	8.0[b]	5.2[b]	5.4[b]	5.8[b]	480[ab]	360[ab]	330[ab]	190[ab]
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	8.0 U	4.8 U	4.0 U	2.4 U
Dibromochloromethane	µg/L	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	13 U	7.8 U	6.5 U	3.9 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	3.7 U	2.2 U	1.8 U	1.1 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	3.0 U	1.8 U	1.5 U	0.90 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.22 J	0.080 U	0.080 U	2.7 U	1.6 U	1.3 U	0.80 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	11 U	6.6 U	5.5 U	3.3 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	2.3 U	1.4 U	1.2 U	0.70 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	87 U	52 U	44 U	26 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	3.0 U	1.8 U	1.5 U	0.90 U
Styrene	µg/L	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	3.3 U	2.0 U	1.7 U	1.0 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U
Toluene	µg/L	0.18 J	0.33 J	1.4	0.62 J	0.33 J	0.34 J	4.7 U	2.8 U	2.9 J	1.8 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.35 J	1.0	0.42 J	0.35 J	0.38 J	6.3 U	3.8 U	3.2 U	1.9 U
Trichloroethene	µg/L	2.2[b]	3.1[b]	9.0[ab]	2.8[b]	2.1[b]	2.1[b]	3.3 U	2.0 U	1.7 U	1.0 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	170[ab]	110[ab]	89[ab]	78[ab]
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.22 J	0.15 U	0.15 U	5.0 U	3.0 U	2.5 U	1.5 U
Total VOCs (Detects)	µg/L	4.26	7.38	19.58	9.73	8.91	9.67	650	503.5	421.9	269.8

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-42	VAS-42	VAS-42	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43	VAS-43
Sample ID:		GW-38443-082118-JC-131	GW-38443-082218-JC-132	GW-38443-082218-JC-133	GW-38443-082318-JC-134	GW-38443-082318-JC-135	GW-38443-082318-JC-136	GW-38443-082318-JC-137	GW-38443-082418-JC-138	GW-38443-082418-JC-139	GW-38443-082418-JC-140
Sample Date:		8/21/2018	8/22/2018	8/22/2018	8/23/2018	8/23/2018	8/23/2018	8/23/2018	8/24/2018	8/24/2018	8/24/2018
Sample Depth:		120-130 ft BGS	130-140 ft BGS	140-150 ft BGS	25-30 ft BGS	25-30 ft BGS Duplicate	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.6 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.87 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	1.1 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	1.3 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.7 U	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
1,2-Dichloroethane	µg/L	1.4 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
1,4-Dichlorobenzene	µg/L	1.1 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	7.7 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	3.6 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	2.8 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	36 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	150 U	5.4 U
Benzene	µg/L	0.87 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	1.1 U	0.17 U	**0.27 J[b]**	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	1.9 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Chlorobenzene	µg/L	0.93 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Chloroethane	µg/L	5.5 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	**1.8 J[b]**	**0.24 J[b]**	**0.89 J[b]**	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	**0.33 J[b]**	**0.58 J[b]**
Chloromethane (Methyl chloride)	µg/L	1.3 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	**130[ab]**	**17[b]**	**6.0[b]**	0.16 U	0.16 U	0.29 J	0.53 J	1.6	**5.1[b]**	**6.1[b]**
Cyclohexane	µg/L	1.6 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Dibromochloromethane	µg/L	2.6 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
Ethylbenzene	µg/L	0.73 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.15 J	0.11 U
Isopropyl benzene	µg/L	0.60 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.53 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.17 J	0.080 U
Methyl cyclohexane	µg/L	2.2 U	0.33 U	0.33 U	0.33 U	0.33 U	0.35 J	0.33 U	0.33 U	0.33 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	0.47 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
Methylene chloride	µg/L	17 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.60 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Styrene	µg/L	0.67 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U
Tetrachloroethene	µg/L	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.16 J	0.23 J	0.15 U	0.15 U	0.15 U
Toluene	µg/L	2.1 J	1.5	2.4	2.5	3.4	2.3	4.0	1.8	0.69 J	2.3
trans-1,2-Dichloroethene	µg/L	1.3 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.35 J	0.72 J	0.49 J
Trichloroethene	µg/L	0.67 U	0.10 U	0.10 U	**1.6[b]**	**1.6[b]**	**2.2[b]**	**2.1[b]**	**5.4[ab]**	**24[ab]**	**17[ab]**
Vinyl chloride	µg/L	**110[ab]**	**21[ab]**	**6.4[ab]**	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	1.0 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 J	0.15 U
Total VOCs (Detects)	µg/L	243.9	39.74	15.96	4.1	5	5.3	6.86	9.15	31.33	26.47

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer
Sample Location:		**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-44**
Sample ID:		**GW-38443-082718-JC-141**	**GW-38443-082718-JC-143**	**GW-38443-082818-JC-144**	**GW-38443-082818-JC-145**	**GW-38443-082918-JC-146**	**GW-38443-082918-JC-147**	**GW-38443-082918-JC-148**	**GW-38443-083018-JC-149**	**GW-38443-083118-JC-150**	**GW-38443-012518-KVM-051**
Sample Date:		**8/27/2018**	**8/27/2018**	**8/28/2018**	**8/28/2018**	**8/29/2018**	**8/29/2018**	**8/29/2018**	**8/30/2018**	**8/31/2018**	**1/25/2018**
Sample Depth:		**60-70 ft BGS**	**70-80 ft BGS**	**80-90 ft BGS**	**90-100 ft BGS**	**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**	**25-30 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	12 U	4.8 U	2.4 U	2.4 U	2.4 U	0.48 U	0.24 U	0.24 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	6.5 U	2.6 U	1.3 U	1.3 U	1.3 U	0.26 U	0.13 U	0.13 U	0.32 U
1,1-Dichloroethane	µg/L	0.20 J	8.5 U	3.4 U	1.7 U	1.7 U	1.7 U	0.34 U	0.17 U	0.17 U	0.25 U
1,1-Dichloroethene	µg/L	0.19 U	9.5 U	3.8 U	1.9 U	1.9 U	1.9 U	0.38 U	0.19 U	0.19 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	13 U	5.2 U	2.6 U	2.6 U	2.6 U	0.52 U	0.26 U	0.26 U	0.27 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U	0.26 U
1,2-Dichloroethane	µg/L	0.21 U	11 U	4.2 U	2.1 U	2.1 U	2.1 U	0.42 U	0.21 U	0.21 U	0.30 U
1,4-Dichlorobenzene	µg/L	0.16 U	8.0 U	3.2 U	1.6 U	1.6 U	1.6 U	0.32 U	0.16 U	0.16 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	58 U	23 U	12 U	12 U	12 U	2.3 U	1.2 U	1.2 U	1.0 U
2-Hexanone	µg/L	0.54 U	27 U	11 U	5.4 U	5.4 U	5.4 U	1.1 U	0.54 U	0.54 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	21 U	8.4 U	4.2 U	4.2 U	4.2 U	0.84 U	0.42 U	0.42 U	0.71 U
Acetone	µg/L	5.4 U	270 U	110 U	54 U	54 U	54 U	11 U	5.4 U	5.4 U	2.2 J
Benzene	µg/L	0.17 J	6.5 U	2.6 U	1.3 U	1.3 U	1.3 U	0.26 U	0.13 U	0.13 U	**0.47 J[b]**
Bromodichloromethane	µg/L	0.17 U	8.5 U	3.4 U	1.7 U	1.7 U	1.7 U	0.34 U	**0.71 J[b]**	0.17 U	0.30 U
Carbon disulfide	µg/L	0.28 U	14 U	5.6 U	2.8 U	2.8 U	2.8 U	0.56 U	1.2	0.28 U	0.34 U
Chlorobenzene	µg/L	0.14 U	7.0 U	2.8 U	1.4 U	1.4 U	1.4 U	0.28 U	0.14 U	0.14 U	0.32 U
Chloroethane	µg/L	0.83 U	42 U	17 U	8.3 U	8.3 U	8.3 U	1.7 U	0.83 U	0.83 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.13 U	6.5 U	2.6 U	**4.2 J[b]**	1.3 U	1.3 U	**1.0 J[b]**	**2.6[b]**	**0.78 J[b]**	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	10 U	4.0 U	2.0 U	2.0 U	2.0 U	0.40 U	0.20 U	0.20 U	0.43 U
cis-1,2-Dichloroethene	µg/L	**42[b]**	**840[ab]**	**320[ab]**	**190[ab]**	**190[ab]**	**120[ab]**	**38[b]**	3.4	0.97 J	0.89 J
Cyclohexane	µg/L	0.24 U	12 U	4.8 U	2.4 U	2.4 U	2.4 U	0.48 U	0.24 U	0.24 U	0.44 U
Dibromochloromethane	µg/L	0.39 U	20 U	7.8 U	3.9 U	3.9 U	3.9 U	0.78 U	0.46 J	0.39 U	0.25 U
Ethylbenzene	µg/L	0.11 J	5.5 U	2.2 U	1.1 U	1.1 U	1.1 U	0.22 U	0.11 U	0.11 U	0.26 U
Isopropyl benzene	µg/L	0.090 U	4.5 U	1.8 U	0.90 U	0.90 U	0.90 U	0.18 U	0.090 U	0.090 U	0.21 U
m&p-Xylenes	µg/L	0.14 J	4.0 U	1.6 U	0.80 U	0.80 U	0.80 U	0.16 U	0.11 J	0.080 U	0.26 J
Methyl cyclohexane	µg/L	0.33 U	17 U	6.6 U	3.3 U	3.3 U	3.3 U	0.66 U	0.33 U	0.33 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	3.5 U	1.4 U	0.70 U	0.70 U	0.70 U	0.14 U	0.070 U	0.070 U	0.27 U
Methylene chloride	µg/L	2.6 U	130 U	52 U	26 U	26 U	26 U	5.2 U	2.6 U	2.6 U	0.53 U
o-Xylene	µg/L	0.090 U	4.5 U	1.8 U	0.90 U	0.90 U	0.90 U	0.18 U	0.090 U	0.090 U	0.28 U
Styrene	µg/L	0.10 U	5.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.10 U	0.10 U	0.23 U
Tetrachloroethene	µg/L	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U	0.30 U
Toluene	µg/L	1.1	7.0 U	2.8 U	2.3 J	3.0 J	1.4 U	1.3 J	0.86 J	0.71 J	1.9
trans-1,2-Dichloroethene	µg/L	1.3	9.5 U	3.8 U	1.9 U	1.9 U	1.9 U	0.38 U	0.19 U	0.19 U	0.29 U
Trichloroethene	µg/L	**5.4[ab]**	10.4 U	2.0 U	1.0 U	1.0 U	1.0 U	0.20 U	0.10 U	0.10 U	**0.35 J[b]**
Vinyl chloride	µg/L	**1.4[b]**	**73[ab]**	**56[ab]**	**44[ab]**	**53[ab]**	**31[ab]**	**27[ab]**	**17[ab]**	**12[ab]**	0.45 U
Xylenes (total)	µg/L	0.15 U	7.5 U	3.0 U	1.5 U	1.5 U	1.5 U	0.30 U	0.15 U	0.15 U	0.26 J
Total VOCs (Detects)	µg/L	51.82	913	376	240.5	246	151	67.3	26.34	14.46	6.33

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44	VAS-44
Sample ID:		GW-38443-012618-KVM-052	GW-038443-012918-KVM-053	GW-038443-012918-KVM-054	GW-038443-012918-KVM-055	GW-38443-013018-KVM-056	GW-38443-013018-KVM-057	GW-38443-013018-KVM-058	GW-38443-013118-KVM-059	GW-38443-013118-KVM-060
Sample Date:		1/26/2018	1/29/2018	1/29/2018	1/29/2018	1/30/2018	1/30/2018	1/30/2018	1/31/2018	1/31/2018
Sample Depth:		30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	50-60 ft BGS Duplicate	70-80 ft BGS	80-90 ft BGS	90-100 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	5.8 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 UJ	0.32 U	8.0 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	6.3 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	6.8 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.27 UJ	6.8 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	6.5 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	7.5 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	5.8 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.6 J	1.0 U	26 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	31 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	18 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	4.1 J	1.8 U	44 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Benzene	µg/L	**0.83 J[b]**	0.28 U	7.0 U	**0.98 J[b]**	**0.49 J[b]**	**0.48 J[b]**	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	7.5 U	**0.34 J[b]**	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon disulfide	µg/L	0.34 U	0.34 U	8.5 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chlorobenzene	µg/L	0.32 U	0.32 U	8.0 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 U	0.41 U	10 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	7.8 U	**0.39 J[b]**	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	11 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	3.4	**12[b]**	**220[ab]**	3.5	0.95 J	1.0	0.75 J	3.1	1.8
Cyclohexane	µg/L	0.50 J	0.44 U	11 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	6.3 U	0.28 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Ethylbenzene	µg/L	0.37 J	0.26 U	6.5 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	5.3 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.49 J	0.24 U	6.0 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methyl cyclohexane	µg/L	0.45 J	0.45 U	11 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	6.8 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	13 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	7.0 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	5.8 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	7.5 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	4.1	0.43 J	5.8 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.32 J	7.3 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Trichloroethene	µg/L	0.33 U	0.33 U	8.3 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Vinyl chloride	µg/L	0.45 U	**2.5[ab]**	**250[ab]**	**2.9[ab]**	**6.5[ab]**	**6.8[ab]**	**2.3[ab]**	**0.60 J[b]**	0.45 U
Xylenes (total)	µg/L	0.49 J	0.24 U	6.0 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Total VOCs (Detects)	µg/L	16.33	15.25	470	8.39	7.94	8.28	3.05	3.7	1.8

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Analytical Results for Groundwater Samples
VAS Locations - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-38443-020118-KVM-061**	**GW-38443-020118-KVM-062**	**GW-38443-020518-KVM-063**	**GW-38443-020518-KVM-064**	**GW-038443-020618-KVM-065**
Sample Date:		**2/1/2018**	**2/1/2018**	**2/5/2018**	**2/5/2018**	**2/6/2018**
Sample Depth:		**100-110 ft BGS**	**110-120 ft BGS**	**120-130 ft BGS**	**130-140 ft BGS**	**140-150 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**					
Volatiles						
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	0.27 UJ	0.27 UJ	0.27 U	0.27 U	0.27 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Hexanone	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	µg/L	1.8 U	1.8 U	1.8 UJ	1.8 UJ	1.8 U
Benzene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Carbon disulfide	µg/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Chlorobenzene	µg/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	µg/L	0.41 UJ	0.41 UJ	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	µg/L	3.6	0.63 J	0.30 U	0.30 U	0.30 U
Cyclohexane	µg/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
Ethylbenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U
Methylene chloride	µg/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	µg/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	µg/L	0.35 J	0.29 U	0.29 U	0.29 U	0.29 U
Trichloroethene	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Vinyl chloride	µg/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U
Xylenes (total)	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Total VOCs (Detects)	µg/L	3.95	0.63	ND	ND	ND

Notes:

J - Estimated concentration.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:				Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:				**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**	**MW-101A**
Sample ID:				**96-DV-03-S23**	**96-DV-03-D23**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**MW101A**	**GW-38443-091008-NZ-010**	**GW-38443-091008-NZ-011**
Sample Date:				**7/9/1996**	**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/19/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/15/2004**	**8/4/2005**	**9/10/2008**	**9/10/2008**
Sample Depth:				**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**	**23.5-33.5 ft BGS**
					Duplicate												**Duplicate**
Sampling Company:				**OEPA**	**OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**														
Volatiles																	
1,1,1-Trichloroethane	µg/L	200	800	10 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	-	2.8	13[b]	13[b]	16[b]	20[b]	14[b]	U	32[b]	31[b]	39[b]	8.7[b]	9.6[b]	6.2[b]	2.8	2.8
1,1-Dichloroethene	µg/L	7	28	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.00033	-	-	-	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	600	30	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	5	0.17	10 U	10 U	U	U	U	34[ab]	U	U	U	U	U	U	1.0 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	150	140	180	270	200	U	410	400	480	41	92	57	-	-
1,4-Dichlorobenzene	µg/L	75	0.48	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	10 U	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	630	10 U	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U
Acetone	µg/L	-	1400	30	29	U	U	U	U	U	U	U	U	U	U	10 U	10 U
Benzene	µg/L	5	0.46	10 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Bromodichloromethane	µg/L	80	0.13	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Bromoform	µg/L	80	3.3	10 U	10 U	U	0.6 J	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Chlorobenzene	µg/L	100	7.8	10 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Chloroethane	µg/L	-	2100	2 J	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	80	0.22	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	-	19	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	70	3.6	-	-	-	-	-	-	-	-	-	-	-	-	22[b]	22[b]
Cyclohexane	µg/L	-	1300	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Dibromochloromethane	µg/L	80	0.87	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Ethylbenzene	µg/L	700	1.5	10 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Isopropyl benzene	µg/L	-	45	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	-	14	-	-	-	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U
Methylene chloride	µg/L	5	11	10 U	4 J	U	U	1.4 JB	5 B	U	U	U	U	U	U	1.0 U	1.0 U
o-Xylene	µg/L	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	100	120	10 U	10 U	U	0.78 J	U	U	U	U	U	U	U	U	1.0 UJ	1.0 UJ
Tetrachloroethene	µg/L	5	4.1	10 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Toluene	µg/L	1000	110	10 U	1 J	U	7.2 J	5.1 J	U	U	U	U	U	U	U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	100	36	-	-	-	-	-	-	-	-	-	-	-	-	0.30 J	0.26 J
Trichloroethene	µg/L	5	0.28	10 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Vinyl chloride	µg/L	2	0.019	4 J[ab]	4 J[ab]	32[ab]	88[ab]	48[ab]	U	150[ab]	140[ab]	180[ab]	14[ab]	20[ab]	12[ab]	5.9[ab]	5.6[ab]
Xylenes (total)	µg/L	10000	19	10 U	10 U	U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U

Notes:

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B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
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E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-101A**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-202**	**MW-203**
Sample ID:		**GW-38443-051315-GL-012**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**MW202**	**GW-38443-090508-GL-003**	**GW-38443-090508-GL-004**	**GW-38443-072809-GL-019**	**GW-38443-051215-GL-007**	**MW203**
Sample Date:		**5/13/2015**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/15/2004**	**8/3/2005**	**9/5/2008**	**9/5/2008**	**7/28/2009**	**5/12/2015**	**5/28/1998**
Sample Depth:		**23.5-33.5 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**30-40 ft BGS**	**30-40 ft BGS**	**27-37 ft BGS**
Sampling Company:		**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	µg/L	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
1,1-Dichloroethane	µg/L	0.44 J	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
1,1-Dichloroethene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	2.0 U	-
1,2-Dichlorobenzene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-
1,2-Dichloroethane	µg/L	1.0 U	2.6 J[b]	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	5[b]
1,2-Dichloroethene (total)	µg/L	-	U	3	U	U	U	U	U	U	U	-	-	-	-	U
1,4-Dichlorobenzene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	10 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 UJ	10 U	-
Acetone	µg/L	10 U	U	U	U	U	U	U	U	U	U	10 U	10 U	10 U	10 U	U
Benzene	µg/L	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
Bromodichloromethane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.3[b]	1.3[b]	1.0 U	1.0 U	-
Bromoform	µg/L	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
Chlorobenzene	µg/L	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	26[b]
Chloroethane	µg/L	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
Chloroform (Trichloromethane)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	3.0[b]	3.1[b]	0.37 J[b]	1.0 U	-
Chloromethane (Methyl chloride)	ug/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-
cis-1,2-Dichloroethene	ug/L	1.8	-	-	-	-	-	-	-	-	-	0.31 J	0.34 J	0.39 J	1.0 U	-
Cyclohexane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 UJ	1.0 U	-
Dibromochloromethane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	0.76 J	0.74 J	1.0 U	1.0 U	-
Ethylbenzene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-
Isopropyl benzene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 UJ	1.0 U	-
Methyl tert butyl ether (MTBE)	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	5.0 U	1.0 U	-
Methylene chloride	µg/L	1.0 U	U	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
Tetrachloroethene	µg/L	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
Toluene	µg/L	1.0 U	8.3	9	U	6.2	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	4.9 J
trans-1,2-Dichloroethene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	1.0 U	-
Trichloroethene	µg/L	1.0 U	38[ab]	39[ab]	39[ab]	35[ab]	41[ab]	31[ab]	11[ab]	12[ab]	8.1[ab]	3.3[b]	3.3[b]	3.1[b]	2.3[b]	U
Vinyl chloride	µg/L	1.7[b]	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	1.0 U	U
Xylenes (total)	µg/L	2.0 U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	2.0 U	U

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Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-204	MW-204	MW-204	MW-204	MW-204
Sample ID:		MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	GW-38443-090908-NZ-008	GW-38443-072409-GL-015	GW-38443-051315-GL-011	MW204	MW204	MW204	MW204	MW204
Sample Date:		2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/4/2005	9/9/2008	7/24/2009	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/9/2000	6/6/2001
Sample Depth:		27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																
Volatiles																	
1,1,1-Trichloroethane	µg/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U
1,1-Dichloroethane	µg/L	1 J	13[b]	U	U	U	U	U	U	0.99 J	0.90 J	0.32 J	U	U	U	U	U
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	0.24 J	0.29 J	1.0 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
1,2-Dichloroethane	µg/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	8	25	U	U	U	14	21	11	-	-	-	U	U	U	U	U
1,4-Dichlorobenzene	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-
Acetone	µg/L	U	U	U	U	U	U	U	U	10 U	10 U	10 U	U	U	U	U	U
Benzene	µg/L	0.7[b]	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U
Bromodichloromethane	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
Bromoform	µg/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U
Chlorobenzene	µg/L	24[b]	19[b]	27[b]	29[b]	29[b]	12[b]	12[b]	9.9[b]	4.4	3.9	1.4	U	U	U	U	U
Chloroethane	µg/L	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2.9 J	2 J	U	U	U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	13[b]	12[b]	5.0[b]	-	-	-	-	-
Cyclohexane	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
Isopropyl benzene	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	-	-	-	-	-
Methylene chloride	µg/L	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	2 J	5.8 B[a]	U	U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	U	U	U	U	U
Tetrachloroethene	µg/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U
Toluene	µg/L	5	8.4	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	4.3 J	6	U	U	U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	0.22 J	1.0 U	1.0 U	-	-	-	-	-
Trichloroethene	µg/L	U	U	U	U	U	U	U	U	2.1[b]	1.3[b]	1.1[b]	U	U	U	U	U
Vinyl chloride	µg/L	2 J[b]	U	U	U	U	U	U	U	3.2 J[ab]	1.6[b]	1.6[b]	U	U	U	U	U
Xylenes (total)	µg/L	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	U	U	U	U	U

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
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E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
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P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
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U - Non-detect at associated value.
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Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208
Sample ID:		MW204	MW204	MW204	MW204	GW-38443-091008-NZ-012	GW-38443-072809-GL-018	GW-38443-051115-GL-001	MW208	MW208	MW208	MW208	MW208	MW208	MW208	MW208
Sample Date:		6/14/2002	7/2/2004	10/14/2004	8/3/2005	9/10/2008	7/28/2009	5/11/2015	2/18/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/3/2005
Sample Depth:		22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	U	U	U	U	0.33 J	0.29 J	1.0 U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	-	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	µg/L	U	U	U	U	-	-	-	2 J	U	U	U	U	U	U	U
1,4-Dichlorobenzene	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
Acetone	µg/L	U	U	U	U	10 U	10 U	10 U	U	U	U	U	U	U	U	U
Benzene	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Bromodichloromethane	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Bromoform	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Chlorobenzene	µg/L	U	U	U	U	1.0 U	0.22 J	0.31 J	U	U	U	U	U	U	U	U
Chloroethane	µg/L	U	U	U	U	0.53 J	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	0.34 J	1.0 U	1.0 U	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Cyclohexane	µg/L	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-
Dibromochloromethane	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Isopropyl benzene	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/L	-	-	-	-	5.0 U	5.0 U	1.0 U	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	0.8 J	U	U	U	U	U	U	U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	U	U	U	U	1.0 UJ	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Tetrachloroethene	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Toluene	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	2 J	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	U	U	U	U	1.0 U	1.0 U	1.0 U	2 J[b]	U	U	U	U	U	U	U
Vinyl chloride	µg/L	U	U	U	U	1.0[b]	0.30 J[b]	1.0 U	1 J[b]	U	U	U	U	U	U	U
Xylenes (total)	µg/L	U	U	U	U	2.0 U	2.0 U	2.0 U	U	U	U	U	U	U	U	U

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-208**	**MW-208**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**
Sample ID:		**GW-38443-090508-GL-005**	**GW-38443-100417-SCT-006**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**GW-38443-091108-NZ-013**	**GW-38443-072109-GL-003**	**GW-38443-051215-GL-008**	**GW-38443-101718-AS-218**
Sample Date:		**9/5/2008**	**10/4/2017**	**2/22/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/11/2008**	**7/21/2009**	**5/12/2015**	**10/17/2018**
Sample Depth:		**32-42 ft BGS**	**32-42 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	1.0 U	0.23 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.24 U
1,1-Dichloroethane	µg/L	1.0 U	0.25 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.17 U
1,1-Dichloroethene	µg/L	1.0 U	0.27 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.19 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	0.0084 U	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	0.0086 U
1,2-Dichlorobenzene	µg/L	1.0 U	0.26 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.15 U
1,2-Dichloroethane	µg/L	1.0 U	0.30 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.21 U
1,2-Dichloroethene (total)	µg/L	-	-	U	U	U	U	U	U	U	U	-	-	-	-
1,4-Dichlorobenzene	µg/L	1.0 U	0.23 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.16 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	1.0 U	-	-	-	-	-	-	-	-	10 U	10 U	10 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	0.71 U	-	-	-	-	-	-	-	-	10 U	10 U	10 U	0.42 U
Acetone	µg/L	10 U	2.6 J	U	U	U	U	U	U	U	U	10 U	10 U	10 U	5.4 U
Benzene	µg/L	1.0 U	0.28 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.13 U
Bromodichloromethane	µg/L	1.0 U	0.30 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.17 U
Bromoform	µg/L	1.0 U	0.43 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.76 U
Chlorobenzene	µg/L	1.0 U	0.32 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.14 U
Chloroethane	µg/L	1.0 U	0.41 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.83 U
Chloroform (Trichloromethane)	ug/L	**0.23 J[b]**	0.31 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.13 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	0.43 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.20 U
cis-1,2-Dichloroethene	ug/L	0.76 J	0.67 J	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.16 U
Cyclohexane	µg/L	1.0 U	0.44 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	0.24 U
Dibromochloromethane	µg/L	1.0 U	0.25 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.39 U
Ethylbenzene	µg/L	1.0 U	0.26 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.11 U
Isopropyl benzene	µg/L	1.0 U	0.21 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.090 U
m&p-Xylenes	µg/L	-	0.24 U	-	-	-	-	-	-	-	-	-	-	-	0.080 U
Methyl cyclohexane	µg/L	1.0 U	0.45 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	0.33 U
Methyl tert butyl ether (MTBE)	µg/L	5.0 U	0.27 U	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	0.070 U
Methylene chloride	µg/L	1.0 U	0.53 U	**8 B[a]**	**51 B[ab]**	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2.6 U
o-Xylene	µg/L	-	0.28 U	-	-	-	-	-	-	-	-	-	-	-	0.090 U
Styrene	µg/L	1.0 U	0.23 U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	0.10 U
Tetrachloroethene	µg/L	1.0 U	0.30 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.15 U
Toluene	µg/L	1.0 U	0.23 U	7	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.14 U
trans-1,2-Dichloroethene	µg/L	1.0 U	0.29 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.19 U
Trichloroethene	µg/L	**1.0[b]**	**1.4[b]**	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	3.7 U
Vinyl chloride	µg/L	1.0 U	0.45 U	U	U	U	U	U	U	U	U	**0.31 J[b]**	**0.66 J[b]**	**1.0[b]**	0.20 U
Xylenes (total)	µg/L	2.0 U	0.24 U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	0.15 U

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
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B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**MW-209**	**MW-209A**	**MW-209A**	**MW-209A**	**MW-209A**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**
Sample ID:		**GW-38443-101718-AS-219**	**GW-38443-072209-GL-004**	**GW-38443-010510-DR-007**	**GW-38443-051315-AS-016**	**GW-38443-101718-AS-220**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**GW-38443-090408-GL-002**
Sample Date:		**10/17/2018**	**7/22/2009**	**1/5/2010**	**5/13/2015**	**10/17/2018**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/15/2004**	**8/4/2005**	**9/4/2008**
Sample Depth:		**18-26 ft BGS Duplicate**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**52-57 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	0.24 U	1.0 U	1.0 U	1.0 U	0.24 U	U	U	U	U	U	U	U	U	9.1 U
1,1-Dichloroethane	µg/L	0.17 U	1.0 U	1.0 U	1.0 U	0.17 U	U	U	U	U	U	U	U	U	9.1 U
1,1-Dichloroethene	µg/L	0.19 U	1.0 U	1.0 U	1.0 U	0.19 U	-	-	-	-	-	-	-	-	9.1 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	2.0 U	2.0 UJ	2.0 U	0.0086 U	-	-	-	-	-	-	-	-	18 UJ
1,2-Dichlorobenzene	µg/L	0.15 U	1.0 U	1.0 U	1.0 U	0.15 U	-	-	-	-	-	-	-	-	9.1 U
1,2-Dichloroethane	µg/L	0.21 U	1.0 U	1.0 U	1.0 U	0.21 U	U	U	U	U	U	U	U	U	9.1 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	16	45	14	U	13	41	45	33	-
1,4-Dichlorobenzene	µg/L	0.16 U	1.0 U	1.0 U	1.0 U	0.16 U	-	-	-	-	-	-	-	-	9.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	10 U	10 U	10 U	1.2 U	-	-	-	-	-	-	-	-	91 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	10 U	10 U	10 U	0.42 U	-	-	-	-	-	-	-	-	91 U
Acetone	µg/L	5.4 U	10 U	10 U	10 U	5.4 U	U	U	U	U	U	U	U	U	91 U
Benzene	µg/L	0.13 U	1.0 U	1.0 U	1.0 U	0.13 U	U	U	U	U	U	U	U	U	9.1 U
Bromodichloromethane	µg/L	0.17 U	1.0 U	1.0 UJ	1.0 U	0.17 U	-	-	-	-	-	-	-	-	9.1 U
Bromoform	µg/L	0.76 U	1.0 U	1.0 U	1.0 U	0.76 U	U	U	U	U	U	U	U	U	9.1 UJ
Chlorobenzene	µg/L	0.14 U	1.0 U	1.0 U	1.0 U	0.14 U	U	U	U	U	U	U	U	U	9.1 U
Chloroethane	µg/L	0.83 U	1.0 U	1.0 UJ	1.0 U	0.83 U	U	U	U	U	U	U	U	U	9.1 U
Chloroform (Trichloromethane)	ug/L	0.13 U	1.0 U	1.0 U	1.0 U	0.13 U	-	-	-	-	-	-	-	-	9.1 U
Chloromethane (Methyl chloride)	ug/L	0.20 U	1.0 U	1.0 U	1.0 U	0.20 U	-	-	-	-	-	-	-	-	9.1 U
cis-1,2-Dichloroethene	ug/L	0.16 U	1.1	1.0 U	1.9	2.6 U	-	-	-	-	-	-	-	-	38[b]
Cyclohexane	µg/L	0.24 U	1.0 UJ	1.0 U	1.0 U	0.24 U	-	-	-	-	-	-	-	-	9.1 U
Dibromochloromethane	µg/L	0.39 U	1.0 U	1.0 UJ	1.0 U	0.39 U	-	-	-	-	-	-	-	-	9.1 U
Ethylbenzene	µg/L	0.11 U	1.0 U	1.0 U	1.0 U	0.11 U	-	-	-	-	-	-	-	-	9.1 U
Isopropyl benzene	µg/L	0.090 U	1.0 U	1.0 U	1.0 U	0.090 U	-	-	-	-	-	-	-	-	9.1 U
m&p-Xylenes	µg/L	0.080 U	-	-	-	0.080 U	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	0.33 U	1.0 UJ	1.0 U	1.0 U	0.33 U	-	-	-	-	-	-	-	-	9.1 U
Methyl tert butyl ether (MTBE)	µg/L	0.070 U	5.0 U	5.0 U	1.0 U	0.070 U	-	-	-	-	-	-	-	-	45 U
Methylene chloride	µg/L	2.6 U	1.0 U	1.0 U	1.0 U	2.6 U	0.7 J	14 B[ab]	U	U	U	U	U	U	9.1 U
o-Xylene	µg/L	0.090 U	-	-	-	0.090 U	-	-	-	-	-	-	-	-	-
Styrene	µg/L	0.10 U	1.0 U	1.0 U	1.0 U	0.10 U	U	U	U	U	U	U	U	U	9.1 UJ
Tetrachloroethene	µg/L	0.15 U	1.0 U	1.0 U	1.0 U	0.15 U	U	U	U	U	U	U	U	U	9.1 U
Toluene	µg/L	0.14 U	1.0 U	1.0 U	1.0 U	0.14 U	1.7 J	U	U	U	U	U	U	U	9.1 U
trans-1,2-Dichloroethene	µg/L	0.19 U	1.0 U	1.0 U	1.0 U	0.19 U	-	-	-	-	-	-	-	-	2.0 J
Trichloroethene	µg/L	0.10 U	1.0 U	1.0 U	1.0 U	0.10 U	87[ab]	260[ab]	58[ab]	30[ab]	76[ab]	170[ab]	250[ab]	190[ab]	260[ab]
Vinyl chloride	µg/L	0.20 U	19[ab]	11[ab]	9.3[ab]	3.8[ab]	U	U	U	U	U	U	U	U	9.1 U
Xylenes (total)	µg/L	0.15 U	2.0 U	2.0 U	2.0 U	0.15 U	U	U	U	U	U	U	U	U	18 U

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
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B - Compound is found in the associated blank as well as in the sample (Organics).
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E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**	**Lower Aquifer**
Sample Location:		**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210A**	**MW-210A**	**MW-210A**	**MW-210A**	**MW-210B**	**MW-210B**
Sample ID:		**GW-38443-072209-GL-006**	**GW-38443-051515-AS-023**	**GW-38443-100317-DA-003**	**GW-38443-100617-DA-013**	**GW-38443-122209-DR-004**	**GW-38443-041410-NZ-012**	**GW-38443-051515-AS-021**	**GW-38443-100317-DA-002**	**GW-38443-122309-DR-006**	**GW-38443-041410-NZ-015**
Sample Date:		**7/22/2009**	**5/15/2015**	**10/3/2017**	**10/6/2017**	**12/22/2009**	**4/14/2010**	**5/15/2015**	**10/3/2017**	**12/23/2009**	**4/14/2010**
Sample Depth:		**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**80-85 ft BGS**	**80-85 ft BGS**	**80-85 ft BGS**	**80-85 ft BGS**	**97-102 ft BGS**	**97-102 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	5.7 U	2.5 U	0.46 U	-	1.4 U	1.7 U	1.0 U	0.23 U	40 U	29 U
1,1-Dichloroethane	µg/L	5.7 U	2.5 U	0.50 U	-	1.4 U	1.7 UJ	1.0 U	0.25 U	40 U	29 UJ
1,1-Dichloroethene	µg/L	5.7 U	2.5 U	0.54 U	-	1.4 U	1.7 U	1.0 U	0.27 U	40 U	29 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	11 U	5.0 U	0.0084 U	-	2.9 UJ	3.3 U	2.0 U	0.0084 U	80 U	57 U
1,2-Dichlorobenzene	µg/L	5.7 U	2.5 U	0.52 U	-	1.4 U	1.7 U	1.0 U	0.26 U	40 U	29 U
1,2-Dichloroethane	µg/L	5.7 U	2.5 U	0.60 U	-	1.4 U	1.7 UJ	1.0 U	0.30 U	40 U	29 UJ
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	5.7 U	2.5 U	0.46 U	-	1.4 U	1.7 U	1.0 U	0.23 U	40 U	29 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	57 U	25 U	2.0 U	-	14 U	17 UJ	10 U	1.0 U	400 U	290 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	57 U	25 U	1.4 U	-	14 UJ	17 UJ	10 U	0.71 U	400 U	290 UJ
Acetone	µg/L	57 U	25 U	3.5 U	-	14 U	17 UJ	10 U	1.8 U	400 U	290 UJ
Benzene	µg/L	5.7 U	2.5 U	0.56 U	-	1.4 U	1.7 U	1.0 U	0.28 U	**1100[ab]**	**880[ab]**
Bromodichloromethane	µg/L	5.7 U	2.5 U	0.60 U	-	1.4 U	1.7 U	1.0 U	0.30 U	40 U	29 U
Bromoform	µg/L	5.7 U	2.5 U	0.86 U	-	1.4 U	1.7 U	1.0 U	0.43 U	40 U	29 U
Chlorobenzene	µg/L	5.7 U	2.5 U	0.64 U	-	1.4 U	1.7 U	1.0 U	0.32 U	40 U	29 U
Chloroethane	µg/L	5.7 U	2.5 U	0.82 UJ	-	1.4 UJ	1.7 U	1.0 U	0.41 UJ	40 U	29 U
Chloroform (Trichloromethane)	ug/L	5.7 U	2.5 U	0.62 U	-	1.4 U	1.7 UJ	1.0 U	0.31 U	40 U	29 UJ
Chloromethane (Methyl chloride)	ug/L	5.7 U	2.5 U	0.86 U	-	1.4 UJ	1.7 U	1.0 U	0.43 U	40 U	29 U
cis-1,2-Dichloroethene	ug/L	**36[b]**	**14[b]**	**12[b]**	-	1.5	1.0 J	1.0 U	0.30 U	40 U	29 U
Cyclohexane	µg/L	5.7 UJ	2.5 U	0.88 U	-	1.4 U	1.7 U	1.0 U	0.44 U	40 U	29 U
Dibromochloromethane	µg/L	5.7 U	2.5 U	0.50 U	-	1.4 U	1.7 U	1.0 U	0.25 U	40 U	29 U
Ethylbenzene	µg/L	5.7 U	2.5 U	0.52 U	-	1.4 U	1.7 U	1.0 U	0.26 U	40 U	29 U
Isopropyl benzene	µg/L	5.7 U	2.5 U	0.42 U	-	1.4 U	1.7 U	1.0 U	0.21 U	40 U	29 U
m&p-Xylenes	µg/L	-	-	0.48 U	-	-	-	-	0.24 U	-	-
Methyl cyclohexane	µg/L	5.7 UJ	2.5 U	0.90 U	-	1.4 U	1.7 U	1.0 U	0.45 U	40 U	29 U
Methyl tert butyl ether (MTBE)	µg/L	29 U	2.5 U	0.54 U	-	7.2 U	8.4 U	1.0 U	0.27 U	200 U	140 U
Methylene chloride	µg/L	5.7 U	2.5 U	1.1 U	-	1.4 U	1.7 U	1.0 U	0.53 U	40 U	29 U
o-Xylene	µg/L	-	-	0.56 U	-	-	-	-	0.28 U	-	-
Styrene	µg/L	5.7 U	2.5 U	0.46 U	-	1.4 UJ	1.7 U	1.0 U	0.23 U	40 U	29 U
Tetrachloroethene	µg/L	5.7 UJ	2.5 U	0.60 U	-	1.4 U	1.7 U	1.0 U	0.30 U	40 U	29 U
Toluene	µg/L	5.7 U	2.5 U	0.46 U	-	1.4 U	1.7 U	1.0 U	0.23 U	40 U	29 U
trans-1,2-Dichloroethene	µg/L	1.6 J	2.5 U	0.58 U	-	1.4 U	1.7 U	1.0 U	0.29 U	40 U	29 U
Trichloroethene	µg/L	**180[ab]**	**78[ab]**	**47[ab]**	-	1.4 U	1.7 U	1.0 U	0.33 U	40 U	29 U
Vinyl chloride	µg/L	5.7 U	2.5 U	0.90 U	-	**55 J[ab]**	**54 J[ab]**	**32[ab]**	**24[ab]**	40 U	29 U
Xylenes (total)	µg/L	11 U	5.0 U	0.48 U	-	2.9 U	3.3 U	2.0 U	0.24 U	80 U	57 U

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-210B	MW-210B	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-215A
Sample ID:		GW-38443-051515-AS-022	GW-38443-100317-SCT-001	MW212	MW212	MW212	MW212	MW212	MW212	MW212	MW212	GW-38443-090408-GL-001	GW-38443-051215-GL-006	GW-38443-101718-AS-222	GW-38443-072409-GL-012
Sample Date:		5/15/2015	10/3/2017	2/18/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005	9/4/2008	5/12/2015	10/17/2018	7/24/2009
Sample Depth:		97-102 ft BGS	97-102 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	19-29 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	14 U	0.23 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.24 U	4.0 U
1,1-Dichloroethane	µg/L	14 U	0.25 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.17 U	4.0 U
1,1-Dichloroethene	µg/L	14 U	0.27 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.19 U	4.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	29 U	0.0084 U	-	-	-	-	-	-	-	-	2.0 UJ	2.0 U	0.0086 U	8.0 U
1,2-Dichlorobenzene	µg/L	14 U	0.26 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.15 U	4.0 U
1,2-Dichloroethane	µg/L	14 U	0.30 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.21 U	4.0 U
1,2-Dichloroethene (total)	µg/L	-	-	U	U	U	U	U	U	U	U	-	-	-	-
1,4-Dichlorobenzene	µg/L	14 U	0.23 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.16 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	140 U	1.0 U	-	-	-	-	-	-	-	-	10 U	10 U	1.2 U	40 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	140 U	0.71 U	-	-	-	-	-	-	-	-	10 U	10 U	0.42 U	40 U
Acetone	µg/L	140 U	1.8 U	U	U	U	U	U	U	U	U	10 U	10 U	5.4 U	40 U
Benzene	µg/L	390[ab]	4.0[b]	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.13 U	12[ab]
Bromodichloromethane	µg/L	14 U	0.30 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.17 U	4.0 U
Bromoform	µg/L	14 U	0.43 U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	0.76 U	4.0 U
Chlorobenzene	µg/L	14 U	0.32 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.14 U	4.2
Chloroethane	µg/L	14 U	0.41 UJ	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.83 U	4.0 U
Chloroform (Trichloromethane)	ug/L	14 U	0.31 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.13 U	4.0 U
Chloromethane (Methyl chloride)	ug/L	14 U	0.43 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.20 U	4.0 U
cis-1,2-Dichloroethene	ug/L	14 U	0.30 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.16 U	4.0 U
Cyclohexane	µg/L	14 U	0.44 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.24 U	2.5 J
Dibromochloromethane	µg/L	14 U	0.25 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.39 U	4.0 U
Ethylbenzene	µg/L	14 U	0.26 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.11 U	23[b]
Isopropyl benzene	µg/L	14 U	0.21 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.090 U	5.1
m&p-Xylenes	µg/L	-	0.24 U	-	-	-	-	-	-	-	-	-	-	0.080 U	-
Methyl cyclohexane	µg/L	14 U	0.45 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.33 U	14 J
Methyl tert butyl ether (MTBE)	µg/L	14 U	0.27 U	-	-	-	-	-	-	-	-	5.0 U	1.0 U	0.070 U	20 U
Methylene chloride	µg/L	14 U	0.53 U	U	5.4 B[a]	U	U	U	U	U	U	1.0 U	1.0 U	2.6 U	4.0 U
o-Xylene	µg/L	-	0.28 U	-	-	-	-	-	-	-	-	-	-	0.090 U	-
Styrene	µg/L	14 U	0.23 U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	0.10 U	4.0 U
Tetrachloroethene	µg/L	14 U	0.30 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.15 U	4.0 U
Toluene	µg/L	14 U	0.23 U	2 J	5.8	6.6	U	U	U	U	U	1.0 U	1.0 U	0.14 U	100
trans-1,2-Dichloroethene	µg/L	14 U	0.29 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.19 U	4.0 U
Trichloroethene	µg/L	14 U	0.33 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.10 U	4.0 U
Vinyl chloride	µg/L	14 U	0.45 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.20 U	4.0 U
Xylenes (total)	µg/L	29 U	0.24 U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	0.15 U	75[b]

Notes:

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D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer
Sample Location:		MW-215A	MW-215A	MW-215B	MW-215B	MW-215B	MW-215B	MW-216	MW-216	MW-216	MW-217
Sample ID:		GW-38443-010510-DR-009	GW-38443-051315-AS-014	GW-38443-072409-GL-013	GW-38443-072409-GL-014	GW-38443-010510-DR-008	GW-38443-051315-AS-015	GW-38443-011210-JMC-027	GW-38443-041410-GL-009	GW-38443-051415-AS-020	GW-38443-072809-GL-020
Sample Date:		1/5/2010	5/13/2015	7/24/2009	7/24/2009	1/5/2010	5/13/2015	1/12/2010	4/14/2010	5/14/2015	7/28/2009
Sample Depth:		19-29 ft BGS	19-29 ft BGS	47-52 ft BGS	47-52 ft BGS Duplicate	47-52 ft BGS	47-52 ft BGS	57-62 ft BGS	57-62 ft BGS	57-62 ft BGS	45-50 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	0.22 J
1,1-Dichloroethane	µg/L	1.7 U	1.0 U	1.0	1.0	1.2	1.2 J	20 U	20 UJ	17 U	0.86 J
1,1-Dichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	3.3 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	3.3 U	40 U	40 U	33 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
1,2-Dichloroethane	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 UJ	17 U	1.0 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	0.53 J[b]	0.37 J	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	17 U	10 U	10 U	10 U	10 U	17 U	200 U	200 UJ	170 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.77 J	10 U	10 U	10 U	10 U	17 U	200 U	200 UJ	170 U	10 U
Acetone	µg/L	17 U	10 U	10 U	10 U	10 U	17 UJ	200 U	200 UJ	170 UJ	10 U
Benzene	µg/L	13[ab]	2.8[b]	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Bromodichloromethane	µg/L	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.7 U	20 U	20 U	17 U	1.0 U
Bromoform	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Chlorobenzene	µg/L	3.9	1.7	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Chloroethane	µg/L	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.7 U	R	20 U	17 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 UJ	20 U	17 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.67 J	0.93 J	18[b]	18[b]	23[b]	35[b]	650[ab]	650[ab]	480[ab]	0.98 J
Cyclohexane	µg/L	3.2	0.58 J	1.0 UJ	1.0 UJ	1.0 U	1.7 U	20 U	20 U	17 U	1.0 UJ
Dibromochloromethane	µg/L	1.7 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.7 U	20 U	20 U	17 U	1.0 U
Ethylbenzene	µg/L	15[b]	0.48 J	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Isopropyl benzene	µg/L	4.6	0.71 J	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	14	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.7 U	20 U	20 U	17 U	1.0 UJ
Methyl tert butyl ether (MTBE)	µg/L	0.32 J	1.0 U	5.0 U	5.0 U	5.0 U	1.7 U	100 U	100 U	17 U	5.0 U
Methylene chloride	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Styrene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
Tetrachloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 UJ	17 U	1.0 U
Toluene	µg/L	51	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.7 U	1.0 U	0.22 J	0.23 J	0.21 J	1.7 U	4.4 J	5.9 J	17 U	1.0 U
Trichloroethene	µg/L	1.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7 U	20 U	20 U	17 U	1.8[b]
Vinyl chloride	µg/L	0.40 J[b]	0.31 J[b]	6.1[ab]	6.2[ab]	5.9[ab]	5.4[ab]	92 J[ab]	130[ab]	350[ab]	1.0 U
Xylenes (total)	µg/L	45[b]	2.0 U	2.0 U	2.0 U	2.0 U	3.3 U	40 U	40 U	33 U	2.0 U

Notes:

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B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
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P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
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Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-217	MW-217	MW-219	MW-219	MW-219	MW-219	MW-225	MW-225	MW-227	MW-227
Sample ID:		GW-38443-011210-NZ-030	GW-38443-101718-JC-217	GW-38443-011210-NZ-028	GW-38443-011210-NZ-029	GW-38443-041410-GL-011	GW-38443-051315-GL-013	GW-38443-041410-GL-016	GW-38443-100517-DA-012	GW-38443-041410-GL-013	GW-38443-041410-GL-014
Sample Date:		1/12/2010	10/17/2018	1/12/2010	1/12/2010	4/14/2010	5/13/2015	4/14/2010	10/5/2017	4/14/2010	4/14/2010
Sample Depth:		45-50 ft BGS	45-50 ft BGS	22-32 ft BGS	22-32 ft BGS Duplicate	22-32 ft BGS	22-32 ft BGS	17-27 ft BGS	17-27 ft BGS	22-32 ft BGS	22-32 ft BGS Duplicate
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.26 J	0.24 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.3	0.17 U	6.7 U	5.6 U	1.0 UJ	1.0 U	1.0 UJ	0.25 U	1.0 UJ	1.0 UJ
1,1-Dichloroethene	µg/L	1.0 U	0.19 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.27 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	0.0086 U	13 U	11 U	2.0 U	2.0 U	2.0 U	0.0084 U	2.0 U	2.0 U
1,2-Dichlorobenzene	µg/L	1.0 U	0.15 U	1.7 J	1.8 J	1.2	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U
1,2-Dichloroethane	µg/L	1.0 U	0.21 U	6.7 U	5.6 U	1.0 UJ	1.0 U	1.0 UJ	0.30 U	1.0 UJ	1.0 UJ
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	1.0 U	0.16 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	1.2 U	67 U	56 U	10 UJ	10 U	10 UJ	1.2 J	10 UJ	10 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	0.42 U	67 U	56 U	10 UJ	10 U	10 UJ	0.71 U	10 UJ	10 UJ
Acetone	µg/L	10 U	5.4 U	67 U	56 U	10 UJ	10 U	10 UJ	9.7 J	10 UJ	10 UJ
Benzene	µg/L	1.0 U	0.13 U	17[ab]	18[ab]	5.0 U	1.0 U	1.0 U	0.28 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	0.17 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U
Bromoform	µg/L	1.0 U	0.76 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U
Chlorobenzene	µg/L	1.0 U	0.14 U	5.8 J	6.2	5.1	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U
Chloroethane	µg/L	R	0.83 U	6.7 UJ	5.6 UJ	1.0 U	1.0 U	1.0 U	0.41 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	0.13 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.59 J[b]	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 UJ	0.20 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.5	0.16 U	6.7 U	5.6 U	4.8[b]	1.0 U	0.51 J	0.30 U	0.98 J	1.1
Cyclohexane	µg/L	1.0 U	0.24 U	6.0 J	6.9	2.6	1.0 U	1.0 U	0.44 U	0.59 J	0.59 J
Dibromochloromethane	µg/L	1.0 U	0.39 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	0.11 U	3.6 J[b]	3.9 J[b]	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	0.090 U	33	35	9.2	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	0.080 U	-	-	-	-	-	0.24 U	-	-
Methyl cyclohexane	µg/L	1.0 U	0.33 U	37	40	20	1.8	1.0 U	0.45 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	µg/L	0.23 J	0.070 U	33 U	28 U	5.0 U	1.0 U	5.0 U	0.27 U	0.45 J	0.49 J
Methylene chloride	µg/L	1.0 U	2.6 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U
o-Xylene	µg/L	-	0.090 U	-	-	-	-	-	0.28 U	-	-
Styrene	µg/L	1.0 U	0.10 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	0.15 U	6.7 U	5.6 U	1.0 UJ	1.0 U	1.0 UJ	0.30 U	1.0 UJ	1.0 UJ
Toluene	µg/L	1.0 U	0.14 U	6.7 U	5.6 U	0.28 J	0.25 J	1.0 U	0.23 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	0.19 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.29 U	1.0 U	1.0 U
Trichloroethene	µg/L	2.1[b]	0.10 U	6.7 U	5.6 U	1.0 U	1.0 U	1.0 U	0.33 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	0.20 U	6.7 U	5.6 U	5.8[ab]	1.0 U	1.0 U	0.45 U	0.55 J[b]	0.47 J[b]
Xylenes (total)	µg/L	0.43 J	0.15 U	64[b]	66[b]	1.4 J	2.0 U	2.0 U	0.24 U	2.0 U	2.0 U

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Analytical Results for Monitoring Well Groundwater Samples
OU1 - Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-227	MW-227	MW-228	MW-229	MW-229	MW-229	MW-230	MW-233	MW-235
Sample ID:		GW-38443-100417-DA-004	GW-38443-100417-DA-005	GW-38443-041510-GL-018	GW-38443-041510-NZ-019	GW-38443-051415-AS-018	GW-38443-051415-AS-019	GW-38443-101718-JC-221	GW-38443-101818-AS-225	GW-38443-101818-AS-224
Sample Date:		10/4/2017	10/4/2017	4/15/2010	4/15/2010	5/14/2015	5/14/2015	10/17/2018	10/18/2018	10/18/2018
Sample Depth:		22-32 ft BGS	22-32 ft BGS Duplicate	19-29 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS Duplicate	27-37 ft BGS	22-32 ft BGS	29-34 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**									
Volatiles										
1,1,1-Trichloroethane	µg/L	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.24 U	0.24 U	16 U
1,1-Dichloroethane	µg/L	0.25 U	0.25 U	2.0 J	2.9 UJ	4.0 U	2.5 U	0.17 U	0.17 U	11 U
1,1-Dichloroethene	µg/L	0.27 U	0.27 U	1.0 U	2.9 U	4.0 U	2.5 U	0.19 U	0.19 U	13 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0096 NJ[b]	0.0084 U	2.0 U	5.7 U	8.0 U	5.0 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dichlorobenzene	µg/L	0.26 U	0.26 U	1.0 U	2.9 U	4.0 U	2.5 U	0.27 J	0.15 U	10 U
1,2-Dichloroethane	µg/L	0.30 U	0.30 U	1.0 UJ	2.9 UJ	4.0 U	2.5 U	0.21 U	0.21 U	14 U
1,2-Dichloroethene (total)	µg/L	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/L	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.16 J	0.16 U	11 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.0 U	10 UJ	29 UJ	40 U	25 U	1.2 U	1.2 U	77 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.71 U	10 UJ	29 UJ	40 U	25 U	0.42 U	0.42 U	28 U
Acetone	µg/L	3.0 J	1.8 U	10 UJ	29 UJ	40 U	25 UJ	5.4 U	5.4 U	360 U
Benzene	µg/L	0.28 U	0.28 U	1.0 U	2.9 U	4.0 U	2.5 U	4.4[b]	0.13 U	8.7 U
Bromodichloromethane	µg/L	0.30 U	0.30 U	1.0 U	2.9 U	4.0 U	2.5 U	0.17 U	0.17 U	11 U
Bromoform	µg/L	0.43 U	0.43 U	1.0 U	2.9 U	4.0 U	2.5 U	0.76 U	0.76 U	51 U
Chlorobenzene	µg/L	0.32 U	0.32 U	1.0 U	2.9 U	4.0 U	2.5 U	2.2	0.14 U	9.3 U
Chloroethane	µg/L	0.41 U	0.41 U	1.0 U	2.9 U	4.0 U	2.5 U	0.83 U	0.83 U	55 U
Chloroform (Trichloromethane)	ug/L	0.31 U	0.31 U	1.0 U	2.9 U	4.0 U	2.5 U	0.13 U	0.13 U	8.7 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.43 U	1.0 U	2.9 U	4.0 U	2.5 U	0.20 U	0.20 U	13 U
cis-1,2-Dichloroethene	ug/L	2.6	2.6	1.6	12[b]	9.8[b]	8.7[b]	2.0 U	0.36 J	1100[ab]
Cyclohexane	µg/L	0.44 U	0.44 U	1.0 U	2.9 U	4.0 U	2.5 U	0.24 U	0.24 U	16 U
Dibromochloromethane	µg/L	0.25 U	0.25 U	1.0 U	2.9 U	4.0 U	2.5 U	0.39 U	0.39 U	26 U
Ethylbenzene	µg/L	0.26 U	0.26 U	1.0 U	2.9 U	4.0 U	2.5 U	0.11 U	0.11 U	7.3 U
Isopropyl benzene	µg/L	0.21 U	0.21 U	1.0 U	2.9 U	4.0 U	2.5 U	0.090 U	0.090 U	6.0 U
m&p-Xylenes	µg/L	0.24 U	0.24 U	-	-	-	-	0.15 J	0.080 U	5.3 U
Methyl cyclohexane	µg/L	0.45 U	0.45 U	1.0 U	2.9 U	4.0 U	2.5 U	0.33 U	0.33 U	22 U
Methyl tert butyl ether (MTBE)	µg/L	0.27 U	0.27 U	5.0 U	14 U	4.0 U	2.5 U	0.070 U	0.070 U	4.7 U
Methylene chloride	µg/L	0.53 U	0.53 U	1.0 U	2.9 U	4.0 U	2.5 U	2.6 U	2.6 U	170 U
o-Xylene	µg/L	0.28 U	0.28 U	-	-	-	-	0.25 J	0.090 U	6.0 U
Styrene	µg/L	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.10 U	0.10 U	6.7 U
Tetrachloroethene	µg/L	0.30 U	0.30 U	1.0 UJ	2.9 UJ	4.0 U	2.5 U	0.15 U	0.31 J	10 U
Toluene	µg/L	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U	2.5 U	0.14 U	0.14 U	9.3 U
trans-1,2-Dichloroethene	µg/L	0.29 U	0.29 U	1.0 U	2.9 U	4.0 U	2.5 U	0.19 U	0.19 U	13 U
Trichloroethene	µg/L	0.33 U	0.33 U	1.0 U	70[ab]	85[ab]	73[ab]	0.10 U	1.9[b]	6.7 U
Vinyl chloride	µg/L	0.45 U	0.45 U	6.3[ab]	2.9 U	4.0 U	2.5 U	0.20 U	0.20 U	620[ab]
Xylenes (total)	µg/L	0.24 U	0.24 U	2.0 U	5.7 U	8.0 U	5.0 U	0.40 J	0.15 U	10 U

Notes:

- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:				Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:				**GW-2**	**GW-3**	**GW-5**	**GW-5**	**GW-5**	**GW-6**	**GW-7**	**GW-8**	**MW-1**
Sample ID:				**GW-38443-010710-NZ-015**	**GW-38443-010710-JC-018**	**GW-38443-011110-NZ-024**	**GW-38443-062415-JC-029**	**GW-38443-062415-JC-030**	**GW-38443-011110-JC-025**	**GW-38443-012510-NZ-032**	**GW-38443-012510-NZ-031**	**GW-38443-010710-JC-017**
Sample Date:				**1/7/2010**	**1/7/2010**	**1/11/2010**	**6/24/2015**	**6/24/2015**	**1/11/2010**	**1/25/2010**	**1/25/2010**	**1/7/2010**
Sample Depth:				**20.4-30.4 ft BGS**	**22-32 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24.4-34.4 ft BGS**
Sampling Company:				**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**MCL a**	**Tapwater b**									
Volatiles												
1,1,1-Trichloroethane	µg/L	200	800	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	-	0.076	3.3 U	1.0 U	77 UJ	1.0 U	1.3 U	71 UJ	1.0 UJ	2.0 UJ	1.0 U
1,1-Dichloroethane	µg/L	-	2.8	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	0.50 J	0.70 J	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.2	0.00033	6.7 U	2.0 U	150 U	2.0 U	2.5 U	140 U	2.0 UJ	4.0 UJ	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	560	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U	10 U
Acetone	µg/L	-	1400	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U	10 U
Benzene	µg/L	5	0.46	3.3 U	1.0 U	**2600[ab]**	**35[ab]**	**35[ab]**	**120[ab]**	1.0 U	2.0 U	1.0 U
Chloroethane	µg/L	-	2100	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	80	0.22	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	-	19	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	70	3.6	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
Cyclohexane	µg/L	-	1300	77	1.0 U	420	14	11	280	1.0 U	50	9.0
Ethylbenzene	µg/L	700	1.5	1.4 J	1.0 U	**160[b]**	1.0 U	1.3 U	**1600[ab]**	1.0 U	**3.5[b]**	**5.2[b]**
Isopropyl benzene	µg/L	-	45	15	1.0 U	**58 J[b]**	0.75 J	0.68 J	**71[b]**	1.0 U	10	3.5
Methyl cyclohexane	µg/L	-	-	21	1.0 U	110	4.6	3.5	86	1.0 U	6.0	0.96 J
Methylene chloride	µg/L	5	11	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
Tetrachloroethene	µg/L	5	4.1	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
Toluene	µg/L	1000	110	3.3 U	1.0 U	26 J	0.25 J	1.3 U	71 U	1.0 U	2.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	100	36	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
Trichloroethene	µg/L	5	0.28	3.3 U	**0.78 J[b]**	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	**0.60 J[b]**
Vinyl chloride	µg/L	2	0.019	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U
Xylenes (total)	µg/L	10000	19	1.4 J	2.0 U	**130 J[b]**	0.56 J	2.5 U	**4200[b]**	2.0 U	4.0 U	3.4

Notes:

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J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	NA	NA	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-3**	**MW-4**	**MW-5**	**MW-5**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**
Sample ID:		**GW-38443-010710-NZ-016**	**GW-38443-010610-DR-013**	**GW-38443-010810-JC-021**	**GW-38443-010810-JC-022**	**96-DV-03-S25**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**	**MW102**
Sample Date:		**1/7/2010**	**1/6/2010**	**1/8/2010**	**1/8/2010**	**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**
Sample Depth:		**20-30 ft BGS**	**-**	**-**	**-**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	0.85 J	0.80 J	10 U	U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	1.3 J	10 U	10 U	-	-	-	-	-	-	-	-	-
Acetone	µg/L	10 U	10 UJ	10 UJ	10 UJ	10 U	U	U	U	U	U	U	U	U	U
Benzene	µg/L	1.0 U	**2.5[b]**	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U	U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	22	U	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/L	1.0 U	24	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	1.0 U	0.28 J	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-	-
Isopropyl benzene	µg/L	1.0 U	26	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	17	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	**6 J[a]**	U	U	3.3 J	U	U	U	U	U	U
Tetrachloroethene	µg/L	1.0 U	1.0 U	0.66 J	0.70 J	10 U	U	U	1.6 J	U	U	U	U	U	U
Toluene	µg/L	1.0 U	0.57 J	1.0 U	1.0 U	15	U	6.9	0.9 J	U	U	U	U	U	U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	**0.66 J[b]**	**0.7 J[b]**	U	U	U	U	U	U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U	U
Xylenes (total)	µg/L	2.0 U	0.90 J	2.0 U	2.0 U	4 J	U	U	U	U	U	U	U	U	U

Notes:

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B - Compound is found in the associated blank as well as in the sample (Organics).
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P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
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Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-102**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**	**MW-103**
Sample ID:		**MW102**	**GW-38443-100308-GL-018**	**GW-38443-072309-GL-011**	**GW-38443-051115-GL-002**	**GW-38443-051115-GL-003**	**96-DV-03-S24**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**	**MW103**
Sample Date:		**8/2/2005**	**10/3/2008**	**7/23/2009**	**5/11/2015**	**5/11/2015**	**7/9/1996**	**1/6/1998**	**5/28/1998**	**2/17/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**
Sampling Company:		**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD Duplicate**	**OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	U	0.38 J	0.40 J	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	10 U	U	**1 J[b]**	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	U	0.22 J	0.32 J	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	10 U	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-	-
Acetone	µg/L	U	10 UJ	10 U	10 U	10 U	10 U	U	U	U	U	U	U	U	U
Benzene	µg/L	U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U
Chloroethane	µg/L	U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	µg/L	-	1.0 UJ	1.0 U	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/L	-	1.0 U	1.0 U	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/L	-	1.0 U	1.0 UJ	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	1.0 U	1.0 U	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-
Isopropyl benzene	µg/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	-	1.0 U	1.0 UJ	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	U	2.2 J	U	U	U	U	U
Tetrachloroethene	µg/L	U	1.0 U	0.37 J	1.0 U	0.31 J	10 U	U	U	0.5 J	U	U	U	U	U
Toluene	µg/L	U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	0.36 J	6.7	0.7 J	U	U	U	U	U
trans-1,2-Dichloroethene	µg/L	-	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	U	**1.9[b]**	**2.4[b]**	**1.8[b]**	**1.9[b]**	10 U	**3.2[b]**	**5.1[ab]**	**4[b]**	**8[ab]**	**5[b]**	U	U	U
Vinyl chloride	µg/L	U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U
Xylenes (total)	µg/L	U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	U	U	U	U	U	U	U	U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-103	MW-103	MW-103	MW-103	MW-103	MW-104	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201	MW-201
Sample ID:		MW103	MW103	GW-38443-091108-NZ-015	GW-38443-072309-GL-010	GW-38443-051115-GL-004	96-DV-03-S22	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201	MW201
Sample Date:		10/14/2004	8/2/2005	9/11/2008	7/23/2009	5/11/2015	7/9/1996	5/28/1998	2/16/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/2/2005
Sample Depth:		22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	-	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	OEPA	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	µg/L	U	U	0.41 J	0.41 J	1.0 U	10 U	7.3	6	8.4	8.9	6.9	5.2	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	U	U	1.0 UJ	1.0 UJ	1.0 U	10 U	U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	µg/L	U	U	0.37 J	0.27 J	0.48 J	10 U	U	U	U	U	U	U	U	U	U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-	-	-
Acetone	µg/L	U	U	10 U	10 U	10 U	10 U	U	U	U	U	U	U	U	U	U
Benzene	µg/L	U	U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U	U
Chloroethane	µg/L	U	U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	µg/L	-	-	1.0 U	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	µg/L	-	-	0.44 J	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	1.0 U	1.0 U	0.38 J	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/L	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/L	-	-	1.0 U	1.0 U	1.0 U	10 U	-	-	-	-	-	-	-	-	-
Isopropyl benzene	µg/L	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/L	U	U	1.0 U	1.0 U	1.0 U	10 U	U	3 J	U	U	U	U	U	U	U
Tetrachloroethene	µg/L	U	U	0.35 J	0.42 J	1.0 U	10 U	U	U	U	U	U	U	U	U	U
Toluene	µg/L	U	U	1.0 U	1.0 U	1.0 U	10 U	3.5 J	2 J	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	µg/L	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/L	U	U	**1.5[b]**	**0.88 J[b]**	**0.54 J[b]**	10 U	**18[ab]**	**17[ab]**	**21[ab]**	**22[ab]**	**21[ab]**	**17[ab]**	**5.9[ab]**	**8[ab]**	**5.7[ab]**
Vinyl chloride	µg/L	U	U	1.0 U	1.0 U	1.0 U	10 U	U	U	U	U	U	U	U	U	U
Xylenes (total)	µg/L	U	U	2.0 U	2.0 U	2.0 U	10 U	U	U	U	U	U	U	U	U	U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-201**	**MW-201**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**	**MW-206**
Sample ID:		**GW-38443-091108-NZ-014**	**GW-38443-051515-AS-024**	**MW206**	**MW206**	**MW206**	**MW206**	**MW206**	**MW206**	**MW206**	**MW206**	**GW-38443-090908-NZ-006**	**GW-38443-072309-GL-008**	**GW-38443-072309-GL-009**
Sample Date:		**9/11/2008**	**5/15/2015**	**2/18/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/23/2009**	**7/23/2009**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**
Parameters	**Units**													
Volatiles														
1,1,1-Trichloroethane	µg/L	0.45 J	1.0 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 U	U	U	U	U	U	U	U	U	1.0 U	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	0.30 J	1.0 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	-	-	-	-	-	-	-	-	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	U	U	U	U	U	U	U	U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 UJ
Methylene chloride	µg/L	1.0 U	1.0 U	0.5 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	0.56 J	0.45 J	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	0.6 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	**3.6**[b]	**1.4**[b]	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	1.0 U	1.0 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-206**	**MW-206**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**	**MW-207**
Sample ID:		**GW-38443-072709-GL-008**	**GW-38443-100417-DA-008**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**	**MW207**	**GW-38443-090908-NZ-007**	**GW-38443-072709-GL-017**	**GW-38443-100417-SCT-009**
Sample Date:		**7/27/2009**	**10/4/2017**	**2/18/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/14/2004**	**8/2/2005**	**9/9/2008**	**7/27/2009**	**10/4/2017**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**													
Volatiles														
1,1,1-Trichloroethane	µg/L	-	0.23 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	-	0.32 U	U	U	U	U	U	U	U	U	1.0 U	1.0 UJ	0.32 U
1,1-Dichloroethane	µg/L	-	0.25 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.25 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	-	0.0084 U	-	-	-	-	-	-	-	-	2.0 U	2.0 U	0.0084 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	1.0 U	-	-	-	-	-	-	-	-	10 U	10 U	1.0 U
Acetone	µg/L	-	1.8 U	U	U	U	U	U	U	U	U	10 U	10 U	3.0 J
Benzene	µg/L	-	0.28 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.28 U
Chloroethane	µg/L	-	0.41 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.41 U
Chloroform (Trichloromethane)	µg/L	-	0.31 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	-	0.43 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.43 U
cis-1,2-Dichloroethene	µg/L	-	0.30 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.30 U
Cyclohexane	µg/L	-	0.44 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	0.44 U
Ethylbenzene	µg/L	-	0.26 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.26 U
Isopropyl benzene	µg/L	-	0.21 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.21 U
Methyl cyclohexane	µg/L	-	0.45 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	0.45 U
Methylene chloride	µg/L	-	0.53 U	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	0.53 U
Tetrachloroethene	µg/L	-	0.30 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.30 U
Toluene	µg/L	-	0.23 U	4 J	U	U	U	U	U	U	U	1.0 U	1.0 U	0.23 U
trans-1,2-Dichloroethene	µg/L	-	0.29 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	0.29 U
Trichloroethene	µg/L	-	0.33 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.33 U
Vinyl chloride	µg/L	-	0.45 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	0.45 U
Xylenes (total)	µg/L	-	0.24 U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	0.24 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-214**	**MW-214**	**MW-214**	**MW-214**	**MW-218A**	**MW-218A**	**MW-218A**	**MW-218B**	**MW-218B**	**MW-218B**
Sample ID:		**GW-38443-072209-GL-005**	**GW-38443-122309-DR-005**	**GW-38443-032318-GL-001**	**GW-38443-032318-GL-002**	**GW-38443-072109-GL-001**	**GW-38443-122209-DR-003**	**GW-38443-100517-DA-010**	**GW-38443-072109-GL-002**	**GW-38443-122209-DR-001**	**GW-38443-122209-DR-002**
Sample Date:		**7/22/2009**	**12/23/2009**	**3/23/2018**	**3/23/2018**	**7/21/2009**	**12/22/2009**	**10/5/2017**	**7/21/2009**	**12/22/2009**	**12/22/2009**
Sample Depth:		**60-65 ft BGS**	**60-65 ft BGS**	**60-65 ft BGS**	**60-65 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**70-75 ft BGS**	**70-75 ft BGS**	**70-75 ft BGS**
					Duplicate						**Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 UJ	0.32 U	0.32 U	1.0 UJ	1.0 U	0.32 U	1.0 UJ	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	0.0086 U	0.0086 U	2.0 U	2.0 UJ	0.0084 U	2.0 U	2.0 UJ	2.0 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	R	1.0 U	10 U	10 U	1.0 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	1.8 U	1.8 U	10 U	10 U	1.8 UJ	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	0.28 U	0.28 U	1.0 U	1.0 U	0.28 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U	1.0 UJ	0.41 U	1.0 U	1.0 UJ	1.0 UJ
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U	1.0 U	0.31 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	1.0 UJ	0.43 U	1.0 U	1.0 UJ	1.0 UJ
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 UJ	1.0 U	0.44 U	0.44 U	1.0 UJ	1.0 U	0.44 U	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	µg/L	1.0 UJ	1.0 U	0.45 U	0.45 U	1.0 UJ	1.0 U	0.45 U	1.0 UJ	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	0.53 U	0.53 U	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.29 U	0.29 U	1.0 U	1.0 U	0.29 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	0.33 U	0.33 U	1.0 U	1.0 U	0.33 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	**0.49 J[b]**	**0.59 J[b]**	**1.2[b]**	**1.1[b]**	1.0 U	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	0.24 U	0.24 U	2.0 U	2.0 U	0.24 U	2.0 U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-218B**	**MW-220**	**MW-220**	**MW-220**	**MW-221**	**MW-221**	**MW-221**	**MW-222**	**MW-222**	**MW-222**
Sample ID:		**GW-38443-100517-SCT-011**	**GW-38443-010610-DR-012**	**GW-38443-041510-NZ-021**	**GW-38443-062315-JC-027**	**GW-38443-010610-DR-010**	**GW-38443-041510-GL-020**	**GW-38443-062415-JC-028**	**GW-38443-010610-DR-011**	**GW-38443-041310-GL-006**	**GW-38443-051215-GL-010**
Sample Date:		**10/5/2017**	**1/6/2010**	**4/15/2010**	**6/23/2015**	**1/6/2010**	**4/15/2010**	**6/24/2015**	**1/6/2010**	**4/13/2010**	**5/12/2015**
Sample Depth:		**70-75 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**	**81-86 ft BGS**	**100-105 ft BGS**	**100-105 ft BGS**	**100-105 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.23 U	2.5 U	4.0 U	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	2.5 U	4.0 UJ	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.25 U	2.5 U	4.0 UJ	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	**0.011 J[b]**	5.0 U	8.0 U	2.9 U	40 U	40 U	20 U	2.0 U	2.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	25 U	3.4 J	14 U	200 U	200 UJ	100 U	10 U	10 U	10 U
Acetone	µg/L	1.8 UJ	25 UJ	40 UJ	14 U	200 U	200 UJ	100 U	10 U	10 U	10 U
Benzene	µg/L	0.28 U	**31[ab]**	**59[ab]**	**38[ab]**	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	0.41 U	2.5 U	4.0 U	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	0.31 U	2.5 U	4.0 U	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	2.5 U	4.0 U	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.30 U	**78[ab]**	**86[ab]**	**40[b]**	**420[ab]**	**440[ab]**	**290[ab]**	**30[b]**	**26[b]**	**17[b]**
Cyclohexane	µg/L	0.44 U	7.5	7.8	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	0.26 U	**12[b]**	**6.6[b]**	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	0.21 U	1.3 J	1.9 J	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Methyl cyclohexane	µg/L	0.45 U	4.7	6.1 U	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	0.53 U	2.5 U	4.0 U	1.4 U	**9.1 J[a]**	20 U	10 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	0.30 U	2.5 U	4.0 UJ	1.4 U	20 U	20 UJ	10 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.23 U	0.79 J	4.0 U	1.4 U	20 U	20 U	10 U	0.19 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	0.29 U	2.5 U	4.0 U	1.4 U	20 U	7.0 J	10 U	0.25 J	0.20 J	1.0 U
Trichloroethene	µg/L	0.33 U	2.5 U	4.0 U	1.4 U	20 U	20 U	10 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	0.45 U	**18[ab]**	**41[ab]**	**33[ab]**	**53[ab]**	**87[ab]**	**110[ab]**	**2.8[ab]**	**2.7[ab]**	**5.6[ab]**
Xylenes (total)	µg/L	0.24 U	**57[b]**	5.9 J	2.9 U	40 U	40 U	20 U	2.0 U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer	Upper Aquifer	Upper Aquifer	Lower Aquifer	Lower Aquifer
Sample Location:		**MW-222A**	**MW-222A**	**MW-223A**	**MW-223A**	**MW-223B**	**MW-223B**	**MW-224A**	**MW-224A**	**MW-224B**	**MW-224B**
Sample ID:		**GW-38443-041310-NZ-007**	**GW-38443-051215-GL-009**	**GW-38443-041310-NZ-005**	**GW-38443-102518-JC-227**	**GW-38443-041310-NZ-002**	**GW-38443-102418-JC-226**	**GW-38443-041310-GL-001**	**GW-38443-101618-AS-215**	**GW-38443-041310-GL-003**	**GW-38443-041310-GL-004**
Sample Date:		**4/13/2010**	**5/12/2015**	**4/13/2010**	**10/25/2018**	**4/13/2010**	**10/24/2018**	**4/13/2010**	**10/16/2018**	**4/13/2010**	**4/13/2010**
Sample Depth:		**20-30 ft BGS**	**20-30 ft BGS**	**33-38 ft BGS**	**33-38 ft BGS**	**98.5-103.5 ft BGS**	**98.5-103.5 ft BGS**	**35-40 ft BGS**	**35-40 ft BGS**	**100-105 ft BGS**	**100-105 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	0.24 U	5.7 U	1.2 U	1.0 U	0.25 J	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 UJ	1.0 U	1.0 UJ	0.13 U	5.7 U	0.65 U	1.0 U	0.13 U	1.0 UJ	1.0 U
1,1-Dichloroethane	µg/L	1.0 UJ	1.0 U	1.0 UJ	0.38 J	5.7 U	0.85 U	1.0 U	0.17 U	0.28 J	0.33 J
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	2.0 U	2.0 U	2.0 U	0.0086 U	11 U	0.0086 U	2.0 U	0.0086 U	2.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	1.2 U	57 U	5.8 U	10 U	1.2 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	5.4 U	57 U	27 U	10 U	5.4 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	0.13 U	5.7 U	0.65 U	1.0 U	0.13 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 UJ	1.0 U	1.0 UJ	0.83 U	5.7 U	4.2 U	1.0 U	0.83 UJ	1.0 UJ	1.0 U
Chloroform (Trichloromethane)	µg/L	0.20 J	1.0 U	**0.94 J[b]**	0.13 U	5.7 U	0.65 U	1.0 U	0.13 U	1.0 UJ	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	0.20 U	5.7 U	1.0 U	1.0 U	0.20 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	2.6	1.1	**170[ab]**	**130[ab]**	1.0 U	0.16 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 UJ	1.0 U	1.0 UJ	0.24 U	5.7 U	1.2 U	1.0 U	0.24 U	1.0 UJ	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	0.11 U	5.7 U	0.55 U	1.0 U	0.11 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	0.090 U	5.7 U	0.45 U	1.0 U	0.090 U	1.0 U	1.0 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	0.33 U	5.7 U	1.7 U	1.0 U	0.33 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	2.6 U	5.7 U	13 U	1.0 U	2.6 U	1.0 U	1.0 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.15 U	5.7 U	0.75 U	1.0 U	0.15 U	1.0 U	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	0.14 U	5.7 U	0.70 U	1.0 U	0.14 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.23 J	0.19 U	5.7 U	0.95 U	1.0 U	0.19 U	1.0 U	1.0 U
Trichloroethene	µg/L	**0.33 J[b]**	1.0 U	**0.43 J[b]**	**0.55 J[b]**	5.7 U	0.50 U	1.0 U	0.10 U	**0.51 J[b]**	**0.46 J[b]**
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	0.20 U	**98[ab]**	**85[ab]**	1.0 U	0.20 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	0.15 U	11 U	0.75 U	2.0 U	0.15 U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Analytical Results for Monitoring Well Groundwater Samples
Outside OU1 Detected VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Lower Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-224B	MW-226	MW-226	MW-234	MW-A	MW-A	MW-B	MW-B
Sample ID:		GW-38443-101618-AS-214	GW-38443-041410-NZ-010	GW-38443-100417-SCT-007	GW-38443-101618-AS-216	GW-38443-010810-NZ-020	GW-38443-062315-JC-026	GW-38443-010810-NZ-023	GW-38443-062315-JC-025
Sample Date:		10/16/2018	4/14/2010	10/4/2017	10/16/2018	1/8/2010	6/23/2015	1/8/2010	6/23/2015
Sample Depth:		100-105 ft BGS	8.5-18.5 ft BGS	8.5-18.5 ft BGS	25-35 ft BGS	-	-	-	-
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	µg/L	0.24 U	1.0 U	0.23 U	0.24 U	6.7 U	3.3 U	120 U	33 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	1.0 UJ	0.32 U	0.13 U	6.7 U	3.3 U	120 UJ	33 U
1,1-Dichloroethane	µg/L	0.49 J	1.0 UJ	0.25 U	1.0	6.7 U	3.3 U	120 U	33 U
1,2-Dibromo-3-chloropropane (DBCP)	µg/L	0.0086 U	2.0 U	0.0084 U	0.0086 U	13 U	6.7 U	250 U	67 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	10 UJ	1.0 U	1.2 U	14 J	9.9 J	1200 U	330 U
Acetone	µg/L	5.4 U	10 UJ	1.8 U	5.4 U	67 UJ	53	1200 UJ	34 J
Benzene	µg/L	0.13 U	1.0 U	0.28 U	0.13 U	55[ab]	80[ab]	1900[ab]	250[ab]
Chloroethane	µg/L	0.83 UJ	1.0 U	0.41 U	0.83 UJ	6.7 U	3.3 U	120 U	33 U
Chloroform (Trichloromethane)	µg/L	0.13 U	1.0 U	0.31 U	0.13 U	6.7 U	3.3 U	120 U	33 U
Chloromethane (Methyl chloride)	µg/L	0.20 U	1.0 U	0.43 U	0.20 U	6.7 U	3.3 U	120 U	33 U
cis-1,2-Dichloroethene	µg/L	0.74 J	1.0 U	0.30 U	0.16 U	6.7 U	3.3 U	120 U	33 U
Cyclohexane	µg/L	0.24 U	0.59 J	0.44 U	0.24 U	65	67	310	200
Ethylbenzene	µg/L	0.11 U	1.0 U	0.26 U	0.11 U	210[b]	8.2[b]	2500[ab]	600[b]
Isopropyl benzene	µg/L	0.090 U	1.0 U	0.21 U	0.090 U	23	21	83 J[b]	38
Methyl cyclohexane	µg/L	0.33 U	1.0 U	0.45 U	0.33 U	28	40	120	87
Methylene chloride	µg/L	2.6 U	1.0 U	0.53 U	2.6 U	6.7 U	3.3 U	120 U	33 U
Tetrachloroethene	µg/L	0.15 U	1.0 UJ	0.30 U	0.15 U	6.7 U	3.3 U	120 U	33 U
Toluene	µg/L	0.14 U	1.0 U	0.23 U	0.14 U	3.5 J	2.8 J	3600[ab]	64
trans-1,2-Dichloroethene	µg/L	0.19 U	1.0 U	0.29 U	0.19 U	6.7 U	3.3 U	120 U	33 U
Trichloroethene	µg/L	0.10 U	1.0 U	0.33 U	0.10 U	6.7 U	3.3 U	120 U	33 U
Vinyl chloride	µg/L	0.20 U	1.0 U	0.45 U	0.20 U	6.7 U	3.3 U	120 UJ	33 U
Xylenes (total)	µg/L	0.15 U	2.0 U	0.24 U	0.15 U	61[b]	3.9 J	13000[ab]	1100[b]

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:								BH1-13	BH01-18	BH01-18	BH2-13	BH02-18	BH3-13	BH03-18	BH4-13	BH04-18
Sample ID:								GW-38443-061313-SM-016	WG-38443-050818-GL-003	WG-38443-050818-GL-004	GW-038443-061413-SM-021	WG-38443-050818-GL-002	GW-038443-061413-SM-020	WG-38443-050718-GL-001	GW-038443-061413-SM-022	WG-38443-050818-GL-005
Sample Date:								6/13/2013	5/8/2018	5/8/2018	6/14/2013	5/8/2018	6/14/2013	5/7/2018	6/14/2013	5/8/2018
Sample Depth:								22.5-26.5 ft BGS	26-30 ft BGS	26-30 ft BGS Duplicate	21.5-25.5 ft BGS	27.5-31.5 ft BGS	22.75-26.75 ft BGS	26.5-30.5 ft BGS	21.3-25.3 ft BGS	25.5-29.5 ft BGS
Sampling Company:								CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**	**Residential VISL a**	**Commercial VISL b**	**# Samples**	**# Detects**	**Min**	**Max**									
Volatiles																
1,1,1-Trichloroethane	ug/L	742	3110	349	32	0.22	15	1.0 U	0.23 U	0.23 U	1.0 U	1.0	1.0 U	3.7	1.0 U	0.23 U
1,1-Dichloroethane	ug/L	7.64	33.4	349	111	0.18	39	1.0 U	0.25 U	0.25 U	1.0 U	0.25 U	1.0 U	1.8	1.0 U	0.25 U
1,1-Dichloroethene	ug/L	19.5	82.1	280	6	0.24	1.1	1.0 U	0.27 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	3.59	15.1	280	1	1.2	1.2	1.0 U	0.27 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0281	0.34	278	1	0.0096	0.0096	2.0 U	0.0086 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U
1,2-Dichlorobenzene	ug/L	266	1120	280	18	0.13	1.8	1.0 U	0.26 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U
1,2-Dichloroethane	ug/L	2.24	9.78	349	4	2	34	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	71	25	2	480	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	3.62	15.2	280	2	0.54	0.62	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
1,3-Dichlorobenzene	ug/L	-	-	280	2	0.31	0.44	1.0 U	0.32 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U
1,4-Dichlorobenzene	ug/L	2.59	11.3	280	19	0.16	5.6	1.0 U	0.23 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	224000	941000	280	23	0.57	19	10 U	1.0 U	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	55500	233000	280	4	0.34	21	10 U	0.71 U	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U
Acetone	ug/L	2250000	9450000	349	30	1.1	30	10 U	1.8 U	1.8 U	10 U	1.8 U	10 U	290 U	10 U	1.8 U
Benzene	ug/L	1.59	6.93	349	71	0.15	100	1.0 U	0.28 U	0.28 U	1.0 U	0.28 U	1.0 U	0.28 U	0.40 J	0.28 U
Bromodichloromethane	ug/L	0.876	3.82	280	5	0.34	1.3	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
Bromoform	ug/L	117	510	349	1	0.6	0.6	1.0 UJ	0.43 U	0.43 U	1.0 UJ	0.43 U	1.0 UJ	0.43 U	1.0 UJ	0.43 U
Carbon disulfide	ug/L	124	521	280	8	0.17	1.2	1.0 U	0.34 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U
Chlorobenzene	ug/L	41	172	349	74	0.2	130	1.0 U	0.32 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U
Chloroethane	ug/L	2300	9650	348	16	0.52	9.4	1.0 UJ	0.41 U	0.41 U	1.0 UJ	0.41 U	1.0 UJ	0.41 U	1.0 UJ	0.41 U
Chloroform (Trichloromethane)	ug/L	0.814	3.55	280	23	0.22	3.1	1.0 U	0.31 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.3[a]	0.31 U
Chloromethane (Methyl chloride)	ug/L	26	109	280	1	0.34	0.34	1.0 U	0.43 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U
cis-1,2-Dichloroethene	ug/L	-	-	278	194	0.17	3900	0.45 J	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	1.7	1.0 U	0.30 U
Cyclohexane	ug/L	102	429	278	74	0.12	6.9	1.0 U	0.44 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U
Dibromochloromethane	ug/L	-	-	280	5	0.28	0.76	1.0 U	0.25 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.744	3.12	278	1	0.36	0.36	1.0 U	0.50 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U
Ethylbenzene	ug/L	3.49	15.2	280	47	0.2	100	1.0 U	0.26 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.2	0.26 U
Isopropyl benzene	ug/L	88.7	373	278	19	0.17	36	1.0 U	0.21 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U
m&p-Xylenes	ug/L	-	-	63	6	0.15	12	-	0.24 U	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U
Methyl acetate	ug/L	-	-	278	1	0.38	0.38	10 U	1.4 U	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U
Methyl cyclohexane	ug/L	-	-	278	21	0.17	40	1.0 U	0.45 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	450	1970	278	20	0.19	2	1.0 U	0.27 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
Methylene chloride	ug/L	471	1980	349	15	0.7	51	1.0 U	0.53 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U
o-Xylene	ug/L	49.2	207	63	4	0.25	6.6	-	0.28 U	0.28 U	-	0.28 U	-	0.28 U	-	0.28 U
Styrene	ug/L	928	3900	349	4	0.13	0.78	1.0 U	0.23 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
Tetrachloroethene	ug/L	5.76	24.2	349	18	0.29	4.6	1.0 U	0.30 U	0.30 U	1.0 U	0.30 U	1.0 U	0.79 J	2.2	0.30 U
Toluene	ug/L	1920	8070	349	164	0.13	270	1.0 U	0.48 J	0.44 J	1.0 U	0.27 J	0.21 J	0.23 U	3.0	0.35 J
trans-1,2-Dichloroethene	ug/L	-	-	278	46	0.19	4.3	1.0 U	0.29 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U
Trichloroethene	ug/L	0.518	2.18	349	161	0.17	5100	1.4[a]	0.33 U	0.33 U	0.71 J[a]	0.52 U	0.43 J	12[ab]	1.9[a]	0.33 U
Vinyl chloride	ug/L	0.147	2.45	349	130	0.22	760	1.0 U	0.45 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U
Xylenes (total)	ug/L	38.5	162	349	44	0.26	190	2.0 U	0.24 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	4.4	0.24 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH5-13**	**BH05-18**	**BH6-13**	**BH06-18**	**BH7-13**	**BH07-18**	**BH8-13**	**BH08-18**	**BH9-13**	**BH09-18**	**BH10-13**	**BH10-18**
Sample ID:		**GW-038443-061413-SM-019**	**WG-38443-051018-GL-009**	**GW-38443-061313-GL-017**	**WG-38443-051018-GL-007**	**GW-38443-061213-GL-011**	**WG-38443-051018-GL-008**	**GW-38443-061313-GL-014**	**WG-38443-051118-GL-010**	**GW-38443-061113-GL-001**	**WG-38443-051418-GL-012**	**GW-38443-061113-SM-002**	**WG-38443-051118-GL-011**
Sample Date:		**6/14/2013**	**5/10/2018**	**6/13/2013**	**5/10/2018**	**6/12/2013**	**5/10/2018**	**6/13/2013**	**5/11/2018**	**6/11/2013**	**5/14/2018**	**6/11/2013**	**5/11/2018**
Sample Depth:		**21-25 ft BGS**	**27.5-31.5 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22-26 ft BGS**	**28-32 ft BGS**	**22.5-26.5 ft BGS**	**22.3-26.3 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**38-42 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
1,1-Dichloroethane	ug/L	1.0 U	0.25 U	1.0 U	0.30 J	1.0 U	0.25 U	1.0 U	0.25 U	0.27 J	0.25 U	1.0 U	0.25 U
1,1-Dichloroethene	ug/L	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U	2.0 U	0.0086 U
1,2-Dichlorobenzene	ug/L	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U
1,2-Dichloroethane	ug/L	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
1,3-Dichlorobenzene	ug/L	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U
1,4-Dichlorobenzene	ug/L	1.0 U	0.23 U	1.0 U	1.4	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U	10 U	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U	10 U	0.71 U
Acetone	ug/L	10 U	1.8 U	10 U	1.8 U	10 U	1.8 U	10 U	1.8 U	10 U	1.8 U	10 U	7.5 J
Benzene	ug/L	1.0 U	0.28 U	1.0 U	0.28 U	1.0 U	0.28 U	1.0 U	0.28 U	0.17 J	0.28 J	1.0 U	0.28 U
Bromodichloromethane	ug/L	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U
Bromoform	ug/L	1.0 UJ	0.43 U	1.0 UJ	0.43 U	1.0 U	0.43 U	1.0 UJ	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U
Carbon disulfide	ug/L	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U	1.0 U	0.34 U
Chlorobenzene	ug/L	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	0.32 U	1.0 U	2.9	1.0 U	0.32 U
Chloroethane	ug/L	1.0 UJ	0.41 U	1.0 UJ	0.41 U	1.0 U	0.41 U	1.0 UJ	0.41 U	1.0 U	0.41 U	1.0 U	0.41 U
Chloroform (Trichloromethane)	ug/L	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U	1.0 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U	1.0 U	0.43 U
cis-1,2-Dichloroethene	ug/L	1.0 U	0.93 J	1.0 U	1.4	1.0 U	0.30 U	1.0 U	4.1	0.37 J	2.1	1.0 U	1.2
Cyclohexane	ug/L	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U	1.0 U	0.44 U
Dibromochloromethane	ug/L	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U	1.0 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U	1.0 U	0.50 U
Ethylbenzene	ug/L	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U	1.0 U	0.26 U
Isopropyl benzene	ug/L	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U	1.0 U	0.21 U
m&p-Xylenes	ug/L	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U
Methyl acetate	ug/L	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U	10 U	1.4 U
Methyl cyclohexane	ug/L	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U	1.0 U	0.27 U
Methylene chloride	ug/L	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U	1.0 U	0.53 U
o-Xylene	ug/L	-	0.28 U	-	0.28 U	-	0.28 U	-	0.28 U	-	0.28 U	-	0.28 U
Styrene	ug/L	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U	1.0 U	0.23 U
Tetrachloroethene	ug/L	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.30 U	1.0 U	0.55 J	1.0 U	0.30 U	1.0 U	0.30 U
Toluene	ug/L	1.0 U	0.31 J	1.0 U	0.23 U	0.18 J	0.23 U	1.0 U	0.23 U	0.27 J	0.23 U	0.18 J	0.23 U
trans-1,2-Dichloroethene	ug/L	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U	1.0 U	0.29 U
Trichloroethene	ug/L	1.0 U	**0.53 J[a]**	1.0 U	0.33 U	1.0 U	0.33 U	1.0 U	**4.1[ab]**	1.0 U	0.33 U	1.0 U	0.33 U
Vinyl chloride	ug/L	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	0.45 U	1.0 U	**15[ab]**	1.0 U	0.45 U
Xylenes (total)	ug/L	2.0 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U	2.0 U	0.24 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH11-13**	**BH12-13**	**BH13-13**	**BH14-13**	**BH14-18**	**BH15-13**	**BH16-13**	**BH16-13**	**BH16-13**	**BH17-13**	**BH17-13**	**BH18-13**
Sample ID:		**GW-38443-061113-GL-003**	**GW-38443-061113-SM-006**	**GW-38443-061213-SM-007**	**GW-38443-061113-GL-005**	**GW-38443-091718-JC-171**	**GW-38443-061213-GL-013**	**GW-38443-061213-GL-008**	**GW-38443-061213-GL-009**	**GW-38443-071013-JT-108**	**GW-38443-061213-SM-010**	**GW-38443-071013-JT-107**	**GW-38443-061213-SM-012**
Sample Date:		**6/11/2013**	**6/11/2013**	**6/12/2013**	**6/11/2013**	**9/17/2018**	**6/12/2013**	**6/12/2013**	**6/12/2013**	**7/10/2013**	**6/12/2013**	**7/10/2013**	**6/12/2013**
Sample Depth:		**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**35-40 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS**	**21.5-25.5 ft BGS Duplicate**	**29.5-33.5 ft BGS**	**21.5-25.5 ft BGS**	**29.5-33.5 ft BGS**	**21.5-25.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	0.26 J	0.53 J	0.32 J	0.24 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
1,1-Dichloroethane	ug/L	0.31 J	1.0 U	1.0 U	1.0 U	1.6 J	0.20 J	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	0.22 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.19 UJ	1.0 U	1.0 U	1.0 U	0.47 J	1.0 U	1.1 J	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.26 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	0.0086 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	5.7 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.21 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.16 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	1.2 UJ	10 U	10 U	10 U	4.7 J	10 U	29 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	0.42 UJ	10 U	10 U	10 U	20 UJ	10 U	29 UJ	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	5.4 UJ	10 U	10 U	10 U	20 U	10 U	29 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.17 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.76 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.66 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	2.9 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.89 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.13 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.20 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	5.9 J	1.0 U	1.0 U	1.0 U	15	1.0 U	27	3.1
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.39 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.35 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	0.74 J	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	1.7 UJ	10 U	10 U	10 U	20 UJ	10 U	29 UJ	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.47 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.070 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	2.6 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
o-Xylene	ug/L	-	-	-	-	0.28 J	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.10 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 UJ	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.3 J	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.19 J	1.0 U	1.0 U	1.0 U	0.72 J	1.0 U	1.9 J	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.27 J	**4.3 J[ab]**	1.0 U	**0.93 J[a]**	**0.96 J[a]**	**78[ab]**	**0.56 J[a]**	**94[ab]**	**3.4[ab]**
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	**1.9 J[a]**	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	2.9 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	1.0 J	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	5.7 U	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH18-13**	**BH18-13**	**BH19-13**	**BH20-13**	**BH20-13**	**BH20-18**	**BH20-18**	**BH21-13**	**BH22-13**	**BH23-13**	**BH24-13**	**BH24-13**
Sample ID:		**GW-38443-070913-JT-105**	**GW-38443-070913-JT-106**	**GW-38443-061313-SM-015**	**WG-38443-061713-SM-023**	**WG-38443-061713-SM-024**	**WG-38443-051518-GL-013**	**WG-38443-051518-GL-014**	**WG-38443-061713-SM-025**	**WG-38443-061713-SM-026**	**WG-38443-061813-SM-031**	**WG-38443-061813-SM-027**	**WG-38443-061813-SM-028**
Sample Date:		**7/9/2013**	**7/9/2013**	**6/13/2013**	**6/17/2013**	**6/17/2013**	**5/15/2018**	**5/15/2018**	**6/17/2013**	**6/17/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**29.5-33.5 ft BGS**	**29.5-33.5 ft BGS Duplicate**	**19.25-23.25 ft BGS**	**20.5-24.5 ft BGS**	**20.5-24.5 ft BGS Duplicate**	**27.3-31.3 ft BGS**	**27.3-31.3 ft BGS Duplicate**	**19.25-23.25 ft BGS**	**21.5-25.5 ft BGS**	**20.5-24.5 ft BGS**	**20.6-24.6 ft BGS**	**20.6-24.6 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.25 J	1.0 U	0.23 J	1.0 U	1.0 U	0.25 U	0.25 U	0.45 J	0.24 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.0086 U	0.0086 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 J	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 J	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	2.7 J	10 U	10 U	10 U	1.0 U	1.0 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 UJ	10 UJ	10 U	10 U	10 U	0.71 U	0.71 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	1.8 U	1.8 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	0.28 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	18	17	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	4.4	4.3	3.5	1.0	1.0	0.99 J	0.93 J	0.52 J	1.1	0.37 J	0.33 J	0.46 J
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 U	0.44 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 U	0.50 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	0.24 U	0.24 U	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	0.38 J	10 U	10 U	1.4 U	1.4 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	0.53 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	0.28 U	0.28 U	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	0.23 U	0.23 U	0.19 J	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	0.26 J	0.20 J	1.0 U	1.0 U	1.0 U	0.29 U	0.29 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	**8.6[ab]**	**8.2[ab]**	**1.8[a]**	**1.8[a]**	**1.8[a]**	0.33 U	0.33 U	1.0 U	**0.72 J[a]**	**0.79 J[a]**	**1.7[a]**	**2.0[a]**
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.24 U	0.24 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH25-13**	**BH30-13**	**BH31-13**	**BH32-13**	**BH32-13**	**BH33-13**	**BH34-13**	**BH35-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH39-13**
Sample ID:		**WG-38443-061813-SM-029**	**GW-38443-070313-SK-097**	**GW-38443-070113-SK-086**	**GW-38443-070213-SK-093**	**GW-38443-070213-SK-094**	**GW-038443-062713-SM-078**	**GW-038443-062713-SM-081**	**GW-38443-062813-SM-083**	**GW-38443-070213-SK-087**	**GW-38443-070313-SK-095**	**GW-38443-062813-SM-082**	**GW-38443-070113-SK-085**
Sample Date:		**6/18/2013**	**7/3/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**6/28/2013**	**7/2/2013**	**7/3/2013**	**6/28/2013**	**7/1/2013**
Sample Depth:		**21.75-25.75 ft BGS**	**32.5-36.5 ft BGS**	**29.5-33.5 ft BGS**	**29.5-33.5 ft BGS**	**29.5-33.5 ft BGS Duplicate**	**26-30 ft BGS**	**27.5-31.5 ft BGS**	**27.5-31.5 ft BGS**	**33-37 ft BGS**	**28-32 ft BGS**	**28.5-32.5 ft BGS**	**31-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	0.67 J	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	0.44 J	0.99 J	0.37 J
1,1-Dichloroethene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.4 UJ	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.9 UJ	4.0 U	2.0 U	2.0 U	10 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	0.21 J	0.45 J	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	2.0 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	14 U	20 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	14 U	20 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	14 U	20 U	10 U	10 U	7.1 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	0.19 J	0.31 J	1.0 U	1.0 U	**80[ab]**	0.49 J	1.0 U	1.0 U	0.63 J	0.48 J	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	0.62 J	1.0 U	1.0 U	0.61 J	0.59 J	1.0 U
Chloroethane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	9.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.6	49	0.88 J	0.94 J	3.8 J	1.7	1.0 U	1.6	4.7	2.6	6.6
Cyclohexane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	1.0 J	1.0 U	1.0 U	1.0 U	0.12 J	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	**100[ab]**	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	6.8	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	14 U	20 U	10 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	0.99 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.4 U	2.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.15 J	1.4 U	2.0 U	0.17 J	0.13 J	32	0.34 J	1.0 U	1.0 U	1.0 U	11	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.4 U	1.1 J	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	**1.3[a]**	**39[ab]**	**57[ab]**	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.0[a]**
Vinyl chloride	ug/L	1.0 U	1.4 U	**9.4[ab]**	1.0 U	1.0 U	**1.1 J[a]**	**11[ab]**	**2.2[a]**	**2.3[a]**	**7.7[ab]**	**1.9[a]**	**3.6[ab]**
Xylenes (total)	ug/L	2.0 U	2.9 U	4.0 U	2.0 U	2.0 U	**190[ab]**	2.0 U	2.0 U	2.0 U	2.0 U	2.2	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH40-13**	**BH42-13**	**BH43-13**	**BH44-13**	**BH46-13**	**BH46B-13**	**BH48B-13**	**BH49-13**	**BH51-13**	**BH52-13**	**BH53-13**	**BH54-13**
Sample ID:		**GW-38443-070213-SK-089**	**GW-38443-070813-JT-098**	**GW-38443-070213-SK-090**	**GW-38443-070213-SK-091**	**GW-38443-070213-SK-092**	**GW-38443-070313-SK-096**	**GW-38443-070813-JT-099**	**WG-38443-061813-SM-032**	**WG-38443-062113-SM-058**	**WG-38443-061913-SM-041**	**WG-38443-061813-SM-034**	**WG-38443-061813-SM-033**
Sample Date:		**7/2/2013**	**7/8/2013**	**7/2/2013**	**7/2/2013**	**7/2/2013**	**7/3/2013**	**7/8/2013**	**6/18/2013**	**6/21/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**31.5-35.5 ft BGS**	**33-37 ft BGS**	**28.5-32.5 ft BGS**	**38.5-42.5 ft BGS**	**31-35 ft BGS**	**29-33 ft BGS**	**30-34 ft BGS**	**21.5-25.5 ft BGS**	**22.5-26.5 ft BGS**	**24.8-28.8 ft BGS**	**22-26 ft BGS**	**21.5-25.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	0.48 J	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	4.0	0.53 J	11 U	1.0 U	0.18 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	22 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.4 J	1.0 U	0.92 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	110 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 UJ	10 U	10 U	110 U	10 U	10 UJ	10 U	0.34 J	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	110 U	10 U	10 U	10 U	10 U	1.3 J	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	0.15 J	1.0 U	**100[ab]**	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	0.44 J	1.0 U	1.0 U	6.3 J	0.41 J	1.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.0	1.0 U	27	1.7	2.8 J	1.0 U	2.5	0.33 J	1.0 U	5.6	0.52 J	0.17 J
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	**9.9 J[a]**	1.0 U	1.0 U	1.0 U	0.84 J	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	5.7 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 UJ	10 U	10 U	110 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	0.18 J	1.0 U	0.13 J	270	1.0 U	0.26 J	1.0 U	0.32 J	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	0.45 J	1.0 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	**0.56 J[a]**	1.0 U	**6.1[ab]**	**1.9[a]**	11 U	1.0 U	1.0 U	1.0 U	1.0 U	0.40 J	**2.0[a]**	**0.58 J[a]**
Vinyl chloride	ug/L	**0.25 J[a]**	**3.5[ab]**	**6.2[ab]**	**0.28 J[a]**	11 U	1.0 U	**2.9[ab]**	1.0 U	1.0 U	**0.73 J[a]**	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	36	2.0 U	2.0 U	2.0 U	6.3	2.0 U	2.0 U	2.0 U

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Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH55-13**	**BH56-13**	**BH57-13**	**BH57-13**	**BH58-13**	**BH59-13**	**BH60-13**	**BH61-13**	**BH62-13**	**BH63-13**	**BH64-13**	**BH65-13**
Sample ID:		**WG-38443-061813-SM-035**	**WG-38443-061913-SM-036**	**WG-38443-061913-SM-037**	**WG-38443-061913-SM-038**	**WG-38443-061913-SM-044**	**WG-38443-061913-SM-040**	**WG-38443-061913-SM-045**	**WG-38443-061913-SM-046**	**WG-38443-061913-SM-043**	**WG-38443-062013-SM-052**	**WG-38443-061913-SM-042**	**WG-38443-062013-SM-053**
Sample Date:		**6/18/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/20/2013**
Sample Depth:		**25.5-29.5 ft BGS**	**24-28 ft BGS**	**24-28 ft BGS**	**24-28 ft BGS Duplicate**	**24.5-28.5 ft BGS**	**23.5-27.5 ft BGS**	**23-27 ft BGS**	**24.2-28.2 ft BGS**	**24.5-28.5 ft BGS**	**26-30 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	3.0 J	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	2.2 J	10 U	10 U	10 U
Acetone	ug/L	10 U	1.1 J	10 U	2.0 J	10 U	10 U	10 U	10 U	2.4 J	10 U	10 U	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.5	0.96 J	4.1	4.1	0.29 J	0.68 J	0.81 J	0.73 J	1.0 U	0.90 J	0.88 J	1.8
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.68 J	1.0 U	1.0 U	1.0 U	0.86 J	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 U	1.0 UJ
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	0.14 J	1.0 U	1.0 U	0.50 J	0.22 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	**2.1[a]**	**0.71 J[a]**	**0.95 J[a]**	**0.95 J[a]**	1.0 U	**1.6[a]**	**1.3[a]**	**0.80 J[a]**	1.0 U	**0.70 J[a]**	**1.1[a]**	1.0 U
Vinyl chloride	ug/L	**0.46 J[a]**	1.0 U	**0.48 J[a]**	**0.40 J[a]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	4.7	2.0 U	2.0 U	2.0 U	7.3	2.0 U	2.0 U	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH66-13**	**BH67-13**	**BH68-13**	**BH69-13**	**BH70-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH75-13**	**BH76-13**
Sample ID:		**GW-38443-062613-SM-074**	**WG-38443-062013-SM-055**	**WG-38443-062013-SM-047**	**WG-38443-062113-SM-059**	**WG-38443-062113-SM-057**	**WG-38443-062013-SM-054**	**WG-38443-062013-SM-056**	**WG-38443-062013-SM-051**	**WG-38443-062013-SM-048**	**WG-38443-062013-SM-049**	**WG-38443-062513-SM-068**	**GW-38443-062613-SM-072**
Sample Date:		**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/21/2013**	**6/21/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/26/2013**
Sample Depth:		**25-29 ft BGS**	**24-28 ft BGS**	**24.5-28.5 ft BGS**	**24-28 ft BGS**	**23.5-27.5 ft BGS**	**24.5-28.5 ft BGS**	**21.75-25.75 ft BGS**	**21.5-25.5 ft BGS**	**22-26 ft BGS**	**22-26 ft BGS Duplicate**	**23-27 ft BGS**	**23.5-27.5 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	0.53 J	0.55 J	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	3.3 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	0.35 J	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	2.5	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	17 U	1.3 J	10 U	10 U	10 U	10 U	1.0 J	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	17 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	17 UJ	20 UJ	10 U	10 U	10 U	10 U	10 U	2.4 J	10 U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	0.79 J	1.0 U	1.0 U	1.0 U	0.49 J	0.89 J
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	0.20 J	0.48 J	0.88 J	0.85 J	2.0 U	0.35 J	7.2	1.0 U	1.0 U	1.0 U	4.5	0.47 J
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.1
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	0.48 J	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.0	1.0	1.4	25	0.72 J	2.0	0.44 J	1.0 U	1.0 U	1.0 U	0.65 J	1.0 U
Cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	0.74 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	ug/L	0.39 J	0.67 J	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	0.42 J	0.59 J	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	2.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	17 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	0.17 J	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	0.97 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	2.0
Methylene chloride	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.7 U	2.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	2.5	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	1.0 U	1.0 U	0.17 J	0.92 J	1.2 J	1.0 U	0.24 J	1.0 U	0.25 J	0.33 J	0.19 J	0.15 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.37 J	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	**43[ab]**	**74[ab]**	0.24 J	0.17 J	**2.6[ab]**	**0.80 J[a]**	0.40 J	1.0 U	1.0 U
Vinyl chloride	ug/L	**0.29 J[a]**	**0.57 J[a]**	1.0 U	1.7 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.34 J[a]**	1.0 U
Xylenes (total)	ug/L	0.64 J	0.30 J	2.0 U	3.3 U	4.0 U	2.0 U	0.53 J	2.0 U	2.2 J	4.1 J	2.0 U	0.35 J

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
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E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH77-13**	**BH78-13**	**BH79-13**	**BH80-13**	**BH81-13**	**BH81-13**	**BH82-13**	**BH83-13**	**BH83-13**	**BH84-13**	**BH85-13**	**BH85-13**
Sample ID:		**WG-38443-062513-SM-069**	**WG-38443-062513-SM-067**	**GW-38443-062613-SM-075**	**WG-38443-062513-SM-066**	**GW-038443-062713-SM-079**	**GW-038443-062713-SM-080**	**WG-38443-062513-SM-064**	**WG-38443-062513-SM-063**	**WG-38443-062513-SM-065**	**GW-38443-062613-SM-076**	**WG-38443-062513-SM-070**	**WG-38443-062513-SM-071**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/25/2013**	**6/27/2013**	**6/27/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:		**23-27 ft BGS**	**23-27 ft BGS**	**24-28 ft BGS**	**25.5-29.5 ft BGS**	**25-29 ft BGS**	**25-29 ft BGS Duplicate**	**22-26 ft BGS**	**23.2-27.2 ft BGS**	**23.2-27.2 ft BGS Duplicate**	**22-26 ft BGS**	**23.5-27.5 ft BGS**	**23.5-27.5 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.4 U	0.62 J	0.25 J	0.33 J	0.40 J	0.41 J	0.47 J	1.0 U	1.0 U	1.7	0.35 J	0.35 J
1,1-Dichloroethene	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.4 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.9 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	0.56 J	1.0 U	0.15 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.62 J	0.54 J
1,3-Dichlorobenzene	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	**5.6[a]**	0.20 J	0.50 J	1.0	0.27 J	0.26 J	1.0 U	0.43 J	0.42 J	1.0 U	0.48 J	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	14 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	14 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	14 UJ	10 U	10 U	10 UJ	10 U	10 U	10 U	3.6 J	2.3 J	1.9 J	10 U	10 U
Benzene	ug/L	**12[ab]**	0.20 J	0.25 J	0.23 J	0.33 J	0.33 J	1.0 U	0.31 J	0.30 J	0.37 J	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.4 UJ	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon disulfide	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	40	0.44 J	5.7	3.4	2.8	2.7	0.21 J	8.6	8.8	3.5	1.2	1.0 U
Chloroethane	ug/L	1.4 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	0.74 J	1.7	1.7	0.72 J	1.1	1.1	1.0 U	2.1	2.0	2.6	1.0 U	1.0 U
Cyclohexane	ug/L	0.27 J	1.0 U	1.0 U	0.12 J	1.0 U	0.14 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	ug/L	1.4 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.4 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	2.2	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.9	0.19 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	14 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	0.70 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	0.24 J	1.0 U	0.36 J	0.24 J	0.27 J	0.25 J	0.23 J	0.56 J	0.56 J	1.0 U	1.0 U	1.0 U
Methylene chloride	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.4 U	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.50 J	0.48 J	0.17 J	0.13 J	0.23 J	0.22 J	1.0 U	0.21 J	0.23 J	0.15 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	ug/L	1.4 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.4 U	0.38 J	1.0 U	1.0 U	1.0 U	0.17 J	1.0 U	1.0 U	1.0 U	**0.54 J[a]**	1.0 U	1.0 U
Vinyl chloride	ug/L	**0.32 J[a]**	**0.41 J[a]**	**5.3[ab]**	**0.41 J[a]**	**0.42 J[a]**	**0.44 J[a]**	**1.9[a]**	**2.1[a]**	**2.2[a]**	**0.31 J[a]**	1.0 U	1.0 U
Xylenes (total)	ug/L	5.7	0.85 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		BH86-13	BH87-13	BH88-13	BH89-13	BH90-13	BH91-13	BH92-13	BH93-13	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A
Sample ID:		WG-38443-062413-SM-061	GW-38443-062613-SM-077	WG-38443-062413-SM-060	WG-38443-062413-SM-062	GW-38443-070913-JT-101	GW-38443-062813-SM-084	GW-38443-070913-JT-102	GW-38443-070913-JT-104	96-DV-03-S23	96-DV-03-D23	MW101A	MW101A	MW101A	MW101A	MW101A
Sample Date:		6/24/2013	6/26/2013	6/24/2013	6/24/2013	7/9/2013	6/28/2013	7/9/2013	7/9/2013	7/9/1996	7/9/1996	1/6/1998	5/28/1998	2/19/1999	11/11/1999	5/10/2000
Sample Depth:		25.5-29.5 ft BGS	23-27 ft BGS	23-27 ft BGS	20.8-24.8 ft BGS	29.5-33.5 ft BGS	27-31 ft BGS	21.8-25.8 ft BGS	20-24 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS Duplicate	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	OEPA	OEPA	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	U	U
1,1-Dichloroethane	ug/L	2.2 U	0.23 J	1.0 U	0.62 J	1.0 U	1.0 U	5.2	1.0 U	13[a]	13[a]	16[a]	20[a]	14[a]	U	32[a]
1,1-Dichloroethene	ug/L	2.2 U	1.0 U	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	2.2 U	1.0 U	1.2 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	4.4 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,2-Dichloroethane	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	34[ab]	U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	150	140	180	270	200	U	410
1,2-Dichloropropane	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	22 U	10 U	10 U	10 U	1.0 J	10 U	1.4 J	2.3 J	10 U	10 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	22 U	10 U	10 U	10 U	10 UJ	10 U	10 UJ	10 UJ	10 U	10 U	-	-	-	-	-
Acetone	ug/L	22 UJ	10 U	2.6 J	10 U	10 U	10 U	3.6 J	1.4 J	30	29	U	U	U	U	U
Benzene	ug/L	0.30 J	0.29 J	0.67 J	0.21 J	1.0 U	1.0 U	0.55 J	0.62 J	10 U	10 U	U	U	U	U	U
Bromodichloromethane	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Bromoform	ug/L	2.2 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	0.6 J	U	U	U
Carbon disulfide	ug/L	2.2 U	1.0 U	0.24 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Chlorobenzene	ug/L	7.2	1.0 U	2.9	1.4	1.0 U	0.48 J	5.7	1.0 U	10 U	10 U	U	U	U	U	U
Chloroethane	ug/L	2.2 UJ	2.6	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	2 J	10 U	U	U	U	U	U
Chloroform (Trichloromethane)	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	9.4	1.0 U	0.33 J	17	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Cyclohexane	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	2.2 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	2.2 U	1.0 U	0.36 J	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Ethylbenzene	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 J	1.0 U	10 U	10 U	-	-	-	-	-
Isopropyl benzene	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	22 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Methylene chloride	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	10 U	4 J	U	U	1.4 JB	5 B	U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	2.2 U	0.13 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	0.78 J	U	U	U
Tetrachloroethene	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	U	U
Toluene	ug/L	2.2 U	1.0 U	0.49 J	0.18 J	0.16 J	0.14 J	0.38 J	0.41 J	10 U	1 J	U	7.2 J	5.1 J	U	U
trans-1,2-Dichloroethene	ug/L	2.2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-
Trichloroethene	ug/L	2.2 U	1.0 U	1.0 U	11[ab]	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 U	U	U	U	U	U
Vinyl chloride	ug/L	54[ab]	1.0 U	2.5[ab]	7.0[ab]	1.0 U	1.0 U	1.0 U	1.0 U	4 J[ab]	4 J[ab]	32[ab]	88[ab]	48[ab]	U	150[ab]
Xylenes (total)	ug/L	4.4 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.75 J	2.0 U	10 U	10 U	U	U	U	U	U

Notes:
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P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
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- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-101A	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202	MW-202
Sample ID:		MW101A	MW101A	MW101A	MW101A	MW101A	GW-38443-091008-NZ-010	GW-38443-091008-NZ-011	GW-38443-051315-GL-012	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	MW202	GW-38443-090508-GL-003
Sample Date:		6/6/2001	6/14/2002	7/1/2004	10/15/2004	8/4/2005	9/10/2008	9/10/2008	5/13/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/15/2004	8/3/2005	9/5/2008
Sample Depth:		23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS	23.5-33.5 ft BGS Duplicate	23.5-33.5 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS	30-40 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD
Parameters	**Units**																		
Volatiles																			
1,1,1-Trichloroethane	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
1,1-Dichloroethane	ug/L	31[a]	39[ab]	8.7[a]	9.6[a]	6.2	2.8	2.8	0.44 J	U	U	U	U	U	U	U	U	U	1.0 U
1,1-Dichloroethene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	2.0 U
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,2-Dichloroethane	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2.6 J[a]	U	U	U	U	U	U	U	U	1.0 U
1,2-Dichloroethene (total)	ug/L	400	480	41	92	57	-	-	-	U	3	U	U	U	U	U	U	U	-
1,2-Dichloropropane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U
Acetone	ug/L	U	U	U	U	U	10 U	10 U	10 U	U	U	U	U	U	U	U	U	U	10 U
Benzene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Bromodichloromethane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.3[a]
Bromoform	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Carbon disulfide	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Chlorobenzene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Chloroethane	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	3.0[a]
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	22	22	1.8	-	-	-	-	-	-	-	-	-	0.31 J
Cyclohexane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Dibromochloromethane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	0.76 J
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Ethylbenzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Isopropyl benzene	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U
Methyl cyclohexane	ug/L	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	5.0 U	5.0 U	1.0 U	-	-	-	-	-	-	-	-	-	5.0 U
Methylene chloride	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	3 J	U	U	U	U	U	U	U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	U	U	U	U	U	1.0 UJ	1.0 UJ	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Tetrachloroethene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U
Toluene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	8.3	9	U	6.2	U	U	U	U	U	1.0 U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	0.30 J	0.26 J	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U
Trichloroethene	ug/L	U	U	U	U	U	1.0 U	1.0 U	1.0 U	38[ab]	39[ab]	39[ab]	35[ab]	41[ab]	31[ab]	11[ab]	12[ab]	8.1[ab]	3.3[ab]
Vinyl chloride	ug/L	140[ab]	180[ab]	14[ab]	20[ab]	12[ab]	5.9[ab]	5.6[ab]	1.7[a]	U	U	U	U	U	U	U	U	U	1.0 U
Xylenes (total)	ug/L	U	U	U	U	U	2.0 U	2.0 U	2.0 U	U	U	U	U	U	U	U	U	U	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
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E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
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P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
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Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-202	MW-202	MW-202	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-203	MW-204
Sample ID:		GW-38443-090508-GL-004	GW-38443-072809-GL-019	GW-38443-051215-GL-007	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	MW203	GW-38443-090908-NZ-008	GW-38443-072409-GL-015	GW-38443-051315-GL-011	MW204
Sample Date:		9/5/2008	7/28/2009	5/12/2015	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/4/2005	9/9/2008	7/24/2009	5/13/2015	5/28/1998
Sample Depth:		30-40 ft BGS Duplicate	30-40 ft BGS	30-40 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	27-37 ft BGS	22-32 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne
Parameters	**Units**																
Volatiles																	
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	U	1 J	13[a]	U	U	U	U	U	U	0.99 J	0.90 J	0.32 J	U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	0.24 J	0.29 J	1.0 U	-
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	5[a]	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
1,2-Dichloroethene (total)	ug/L	-	-	-	U	8	25	U	U	U	14	21	11	-	-	-	U
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 UJ	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
Acetone	ug/L	10 U	10 U	10 U	U	U	U	U	U	U	U	U	U	10 U	10 U	10 U	U
Benzene	ug/L	1.0 U	1.0 U	1.0 U	U	0.7	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
Bromodichloromethane	ug/L	1.3[a]	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	26	24	19	27	29	29	12	12	9.9	4.4	3.9	1.4	U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	U	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2.9 J
Chloroform (Trichloromethane)	ug/L	3.1[a]	0.37 J	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
cis-1,2-Dichloroethene	ug/L	0.34 J	0.39 J	1.0 U	-	-	-	-	-	-	-	-	-	13	12	5.0	-
Cyclohexane	ug/L	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Dibromochloromethane	ug/L	0.74 J	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Ethylbenzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 UJ	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-
Methyl cyclohexane	ug/L	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	1.0 U	-	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	-
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	U	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U
Toluene	ug/L	1.0 U	1.0 U	1.0 U	4.9 J	5	8.4	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	4.3 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-	-	0.22 J	1.0 U	1.0 U	-
Trichloroethene	ug/L	3.3[ab]	3.1[ab]	2.3[ab]	U	U	U	U	U	U	U	U	U	2.1[a]	1.3[a]	1.1[a]	U
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	U	2 J[a]	U	U	U	U	U	U	U	3.2 J[ab]	1.6[a]	1.6[a]	U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	U

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Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-204	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208	MW-208
Sample ID:		MW204	MW204	MW204	MW204	MW204	MW204	MW204	MW204	GW-38443-091008-NZ-012	GW-38443-072809-GL-018	GW-38443-051115-GL-001	MW208	MW208	MW208	MW208	MW208	MW208	MW208	MW208
Sample Date:		2/17/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/2/2004	10/14/2004	8/3/2005	9/10/2008	7/28/2009	5/11/2015	2/18/1999	11/11/1999	5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/3/2005
Sample Depth:		22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS	32-42 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne
Parameters	**Units**																			
Volatiles																				
1,1,1-Trichloroethane	ug/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
1,1-Dichloroethane	ug/L	U	U	U	U	U	U	U	U	0.33 J	0.29 J	1.0 U	U	U	U	U	U	U	U	U
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
1,2-Dichloroethene (total)	ug/L	U	U	U	U	U	U	U	U	-	-	-	2 J	U	U	U	U	U	U	U
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
Acetone	ug/L	U	U	U	U	U	U	U	U	10 U	10 U	10 U	U	U	U	U	U	U	U	U
Benzene	ug/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Bromoform	ug/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Carbon disulfide	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Chlorobenzene	ug/L	U	U	U	U	U	U	U	U	1.0 U	0.22 J	0.31 J	U	U	U	U	U	U	U	U
Chloroethane	ug/L	2 J	U	U	U	U	U	U	U	0.53 J	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	-	0.34 J	1.0 U	1.0 U	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	-	-	-	10 U	10 U	10 U	-	-	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	-	-	-	-	-	-	-	-
Methylene chloride	ug/L	2 J	5.8 B	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.8 J	U	U	U	U	U	U	U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Tetrachloroethene	ug/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	U	U	U	U	U	U	U	U
Toluene	ug/L	6	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2 J	U	U	U	U	U	U	U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	-	-	-	-	-	-	-
Trichloroethene	ug/L	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2 J[a]	U	U	U	U	U	U	U
Vinyl chloride	ug/L	U	U	U	U	U	U	U	U	1.0[a]	0.30 J[a]	1.0 U	1 J[a]	U	U	U	U	U	U	U
Xylenes (total)	ug/L	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	U	U	U	U	U	U	U	U

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South Dayton Dump and Landfill Site
Moraine, Ohio

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Sample Location:		**MW-208**	**MW-208**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-209**	**MW-210**
Sample ID:		**GW-38443-090508-GL-005**	**GW-38443-100417-SCT-006**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**MW209**	**GW-38443-091108-NZ-013**	**GW-38443-072109-GL-003**	**GW-38443-051215-GL-008**	**GW-38443-101718-AS-218**	**GW-38443-101718-AS-219**	**MW210**
Sample Date:		**9/5/2008**	**10/4/2017**	**2/22/1999**	**11/11/1999**	**5/9/2000**	**6/6/2001**	**6/14/2002**	**7/2/2004**	**10/14/2004**	**8/3/2005**	**9/11/2008**	**7/21/2009**	**5/12/2015**	**10/17/2018**	**10/17/2018**	**2/18/1999**
Sample Depth:		**32-42 ft BGS**	**32-42 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS**	**18-26 ft BGS Duplicate**	**26-36 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**
Parameters	**Units**																
Volatiles																	
1,1,1-Trichloroethane	ug/L	1.0 U	0.23 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.24 U	0.24 U	U
1,1-Dichloroethane	ug/L	1.0 U	0.25 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.17 U	0.17 U	U
1,1-Dichloroethene	ug/L	1.0 U	0.27 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	-
1,2,4-Trichlorobenzene	ug/L	1.0 U	0.27 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	0.26 U	0.26 U	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	0.0084 U	-	-	-	-	-	-	-	-	2.0 U	2.0 U	2.0 U	0.0086 U	0.0086 U	-
1,2-Dichlorobenzene	ug/L	1.0 U	0.26 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	-
1,2-Dichloroethane	ug/L	1.0 U	0.30 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.21 U	0.21 U	U
1,2-Dichloroethene (total)	ug/L	-	-	U	U	U	U	U	U	U	U	-	-	-	-	-	16
1,2-Dichloropropane	ug/L	1.0 U	0.30 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	-
1,3-Dichlorobenzene	ug/L	1.0 U	0.32 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	-
1,4-Dichlorobenzene	ug/L	1.0 U	0.23 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	1.0 U	-	-	-	-	-	-	-	-	10 U	10 U	10 U	1.2 U	1.2 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	0.71 U	-	-	-	-	-	-	-	-	10 U	10 U	10 U	0.42 U	0.42 U	-
Acetone	ug/L	10 U	2.6 J	U	U	U	U	U	U	U	U	10 U	10 U	10 U	5.4 U	5.4 U	U
Benzene	ug/L	1.0 U	0.28 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	U
Bromodichloromethane	ug/L	1.0 U	0.30 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.17 U	0.17 U	-
Bromoform	ug/L	1.0 U	0.43 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.76 U	0.76 U	U
Carbon disulfide	ug/L	1.0 U	0.34 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	0.28 U	0.28 U	-
Chlorobenzene	ug/L	1.0 U	0.32 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.14 U	0.14 U	U
Chloroethane	ug/L	1.0 U	0.41 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.83 U	0.83 U	U
Chloroform (Trichloromethane)	ug/L	0.23 J	0.31 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.13 U	0.13 U	-
Chloromethane (Methyl chloride)	ug/L	1.0 U	0.43 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.20 U	0.20 U	-
cis-1,2-Dichloroethene	ug/L	0.76 J	0.67 J	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.16 U	0.16 U	-
Cyclohexane	ug/L	1.0 U	0.44 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	0.24 U	0.24 U	-
Dibromochloromethane	ug/L	1.0 U	0.25 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.39 U	0.39 U	-
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	0.50 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	0.35 U	0.35 U	-
Ethylbenzene	ug/L	1.0 U	0.26 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.11 U	0.11 U	-
Isopropyl benzene	ug/L	1.0 U	0.21 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.090 U	0.090 U	-
m&p-Xylenes	ug/L	-	0.24 U	-	-	-	-	-	-	-	-	-	-	-	0.080 U	0.080 U	-
Methyl acetate	ug/L	10 U	1.4 U	-	-	-	-	-	-	-	-	10 U	10 U	10 U	1.7 U	1.7 U	-
Methyl cyclohexane	ug/L	1.0 U	0.45 U	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U	0.33 U	0.33 U	-
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	0.27 U	-	-	-	-	-	-	-	-	5.0 U	5.0 U	1.0 U	0.070 U	0.070 U	-
Methylene chloride	ug/L	1.0 U	0.53 U	8 B	51 B	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	2.6 U	2.6 U	0.7 J
o-Xylene	ug/L	-	0.28 U	-	-	-	-	-	-	-	-	-	-	-	0.090 U	0.090 U	-
Styrene	ug/L	1.0 U	0.23 U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	1.0 U	0.10 U	0.10 U	U
Tetrachloroethene	ug/L	1.0 U	0.30 U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.15 U	0.15 U	U
Toluene	ug/L	1.0 U	0.23 U	7	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	0.14 U	0.14 U	1.7 J
trans-1,2-Dichloroethene	ug/L	1.0 U	0.29 U	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	0.19 U	0.19 U	-
Trichloroethene	ug/L	**1.0[a]**	**1.4[a]**	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	3.7 U	0.10 U	**87[ab]**
Vinyl chloride	ug/L	1.0 U	0.45 U	U	U	U	U	U	U	U	U	**0.31 J[a]**	**0.66 J[a]**	**1.0[a]**	0.20 U	0.20 U	U
Xylenes (total)	ug/L	2.0 U	0.24 U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	0.15 U	0.15 U	U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-210**	**MW-212**	**MW-212**	**MW-212**	**MW-212**	**MW-212**
Sample ID:		**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**MW210**	**GW-38443-090408-GL-002**	**GW-38443-072209-GL-006**	**GW-38443-051515-AS-023**	**GW-38443-100317-DA-003**	**GW-38443-100617-DA-013**	**MW212**	**MW212**	**MW212**	**MW212**	**MW212**
Sample Date:		**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/15/2004**	**8/4/2005**	**9/4/2008**	**7/22/2009**	**5/15/2015**	**10/3/2017**	**10/6/2017**	**2/18/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**
Sample Depth:		**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**26-36 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**	**46-56 ft BGS**
Sampling Company:		**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**
Parameters	**Units**																	
Volatiles																		
1,1,1-Trichloroethane	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.46 U	-	U	U	U	U	U
1,1-Dichloroethane	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.50 U	-	U	U	U	U	U
1,1-Dichloroethene	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.54 U	-	-	-	-	-	-
1,2,4-Trichlorobenzene	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 UJ	2.5 U	0.54 U	-	-	-	-	-	-
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	-	-	-	-	18 UJ	11 U	5.0 U	0.0084 U	-	-	-	-	-	-
1,2-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.52 U	-	-	-	-	-	-
1,2-Dichloroethane	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.60 U	-	U	U	U	U	U
1,2-Dichloroethene (total)	ug/L	45	14	U	13	41	45	33	-	-	-	-	-	U	U	U	U	U
1,2-Dichloropropane	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.60 U	-	-	-	-	-	-
1,3-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.64 U	-	-	-	-	-	-
1,4-Dichlorobenzene	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.46 U	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	-	-	-	-	91 U	57 U	25 U	2.0 U	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	-	-	-	-	91 U	57 U	25 U	1.4 U	-	-	-	-	-	-
Acetone	ug/L	U	U	U	U	U	U	U	91 U	57 U	25 U	3.5 U	-	U	U	U	U	U
Benzene	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.56 U	-	U	U	U	U	U
Bromodichloromethane	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.60 U	-	-	-	-	-	-
Bromoform	ug/L	U	U	U	U	U	U	U	9.1 UJ	5.7 U	2.5 U	0.86 U	-	U	U	U	U	U
Carbon disulfide	ug/L	-	-	-	-	-	-	-	9.1 UJ	5.7 UJ	2.5 U	0.68 U	-	-	-	-	-	-
Chlorobenzene	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.64 U	-	U	U	U	U	U
Chloroethane	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.82 UJ	-	U	U	U	U	U
Chloroform (Trichloromethane)	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.62 U	-	-	-	-	-	-
Chloromethane (Methyl chloride)	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.86 U	-	-	-	-	-	-
cis-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	38	36	14	12	-	-	-	-	-	-
Cyclohexane	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 UJ	2.5 U	0.88 U	-	-	-	-	-	-
Dibromochloromethane	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.50 U	-	-	-	-	-	-
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 UJ	2.5 U	1.0 U	-	-	-	-	-	-
Ethylbenzene	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.52 U	-	-	-	-	-	-
Isopropyl benzene	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 U	2.5 U	0.42 U	-	-	-	-	-	-
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	0.48 U	-	-	-	-	-	-
Methyl acetate	ug/L	-	-	-	-	-	-	-	91 U	57 U	25 U	2.9 U	-	-	-	-	-	-
Methyl cyclohexane	ug/L	-	-	-	-	-	-	-	9.1 U	5.7 UJ	2.5 U	0.90 U	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	-	-	-	-	45 U	29 U	2.5 U	0.54 U	-	-	-	-	-	-
Methylene chloride	ug/L	14 B	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	1.1 U	-	U	5.4 B	U	U	U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	0.56 U	-	-	-	-	-	-
Styrene	ug/L	U	U	U	U	U	U	U	9.1 UJ	5.7 U	2.5 U	0.46 U	-	U	U	U	U	U
Tetrachloroethene	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 UJ	2.5 U	0.60 U	-	U	U	U	U	U
Toluene	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.46 U	-	2 J	5.8	6.6	U	U
trans-1,2-Dichloroethene	ug/L	-	-	-	-	-	-	-	2.0 J	1.6 J	2.5 U	0.58 U	-	-	-	-	-	-
Trichloroethene	ug/L	**260[ab]**	**58[ab]**	**30[ab]**	**76[ab]**	**170[ab]**	**250[ab]**	**190[ab]**	**260[ab]**	**180[ab]**	**78[ab]**	**47[ab]**	-	U	U	U	U	U
Vinyl chloride	ug/L	U	U	U	U	U	U	U	9.1 U	5.7 U	2.5 U	0.90 U	-	U	U	U	U	U
Xylenes (total)	ug/L	U	U	U	U	U	U	U	18 U	11 U	5.0 U	0.48 U	-	U	U	U	U	U

Notes:
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R - Rejected.
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Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-212	MW-212	MW-212	MW-212	MW-212	MW-212	MW-215A	MW-215A	MW-215A	MW-217	MW-217	MW-217	MW-219
Sample ID:		MW212	MW212	MW212	GW-38443-090408-GL-001	GW-38443-051215-GL-006	GW-38443-101718-AS-222	GW-38443-072409-GL-012	GW-38443-010510-DR-009	GW-38443-051315-AS-014	GW-38443-072809-GL-020	GW-38443-011210-NZ-030	GW-38443-101718-JC-217	GW-38443-011210-NZ-028
Sample Date:		7/2/2004	10/14/2004	8/3/2005	9/4/2008	5/12/2015	10/17/2018	7/24/2009	1/5/2010	5/13/2015	7/28/2009	1/12/2010	10/17/2018	1/12/2010
Sample Depth:		46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	46-56 ft BGS	19-29 ft BGS	19-29 ft BGS	19-29 ft BGS	45-50 ft BGS	45-50 ft BGS	45-50 ft BGS	22-32 ft BGS
Sampling Company:		Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**													
Volatiles														
1,1,1-Trichloroethane	ug/L	U	U	U	1.0 U	1.0 U	0.24 U	4.0 U	1.7 U	1.0 U	0.22 J	0.26 J	0.24 U	6.7 U
1,1-Dichloroethane	ug/L	U	U	U	1.0 U	1.0 U	0.17 U	4.0 U	1.7 U	1.0 U	0.86 J	1.3	0.17 U	6.7 U
1,1-Dichloroethene	ug/L	-	-	-	1.0 U	1.0 U	0.19 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.19 U	6.7 U
1,2,4-Trichlorobenzene	ug/L	-	-	-	1.0 U	1.0 U	0.26 U	4.0 UJ	1.7 U	1.0 U	1.0 U	1.0 U	0.26 U	6.7 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	-	-	-	2.0 UJ	2.0 U	0.0086 U	8.0 U	3.3 UJ	2.0 U	2.0 U	2.0 U	0.0086 U	13 U
1,2-Dichlorobenzene	ug/L	-	-	-	1.0 U	1.0 U	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	1.7 J
1,2-Dichloroethane	ug/L	U	U	U	1.0 U	1.0 U	0.21 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.21 U	6.7 U
1,2-Dichloroethene (total)	ug/L	U	U	U	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	-	-	-	1.0 U	1.0 U	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	6.7 U
1,3-Dichlorobenzene	ug/L	-	-	-	1.0 U	1.0 U	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	6.7 U
1,4-Dichlorobenzene	ug/L	-	-	-	1.0 U	1.0 U	0.16 U	4.0 U	0.53 J	0.37 J	1.0 U	1.0 U	0.16 U	6.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	-	-	-	10 U	10 U	1.2 U	40 U	17 U	10 U	10 U	10 U	1.2 U	67 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	-	-	-	10 U	10 U	0.42 U	40 U	0.77 J	10 U	10 U	10 U	0.42 U	67 U
Acetone	ug/L	U	U	U	10 U	10 U	5.4 U	40 U	17 U	10 U	10 U	10 U	5.4 U	67 U
Benzene	ug/L	U	U	U	1.0 U	1.0 U	0.13 U	12[ab]	13[ab]	2.8[a]	1.0 U	1.0 U	0.13 U	17[ab]
Bromodichloromethane	ug/L	-	-	-	1.0 U	1.0 U	0.17 U	4.0 U	1.7 UJ	1.0 U	1.0 U	1.0 U	0.17 U	6.7 U
Bromoform	ug/L	U	U	U	1.0 UJ	1.0 U	0.76 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.76 U	6.7 U
Carbon disulfide	ug/L	-	-	-	1.0 UJ	1.0 U	0.28 U	4.0 UJ	1.7 U	1.0 U	1.0 U	1.0 U	0.28 U	6.7 U
Chlorobenzene	ug/L	U	U	U	1.0 U	1.0 U	0.14 U	4.2	3.9	1.7	1.0 U	1.0 U	0.14 U	5.8 J
Chloroethane	ug/L	U	U	U	1.0 U	1.0 U	0.83 U	4.0 U	1.7 UJ	1.0 U	1.0 U	R	0.83 U	6.7 UJ
Chloroform (Trichloromethane)	ug/L	-	-	-	1.0 U	1.0 U	0.13 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.13 U	6.7 U
Chloromethane (Methyl chloride)	ug/L	-	-	-	1.0 U	1.0 U	0.20 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 UJ	0.20 U	6.7 U
cis-1,2-Dichloroethene	ug/L	-	-	-	1.0 U	1.0 U	0.16 U	4.0 U	0.67 J	0.93 J	0.98 J	1.5	0.16 U	6.7 U
Cyclohexane	ug/L	-	-	-	1.0 U	1.0 U	0.24 U	2.5 J	3.2	0.58 J	1.0 UJ	1.0 U	0.24 U	6.0 J
Dibromochloromethane	ug/L	-	-	-	1.0 U	1.0 U	0.39 U	4.0 U	1.7 UJ	1.0 U	1.0 U	1.0 U	0.39 U	6.7 U
Dichlorodifluoromethane (CFC-12)	ug/L	-	-	-	1.0 U	1.0 U	0.35 U	4.0 UJ	1.7 UJ	1.0 U	1.0 UJ	1.0 U	0.35 U	6.7 U
Ethylbenzene	ug/L	-	-	-	1.0 U	1.0 U	0.11 U	23[ab]	15[a]	0.48 J	1.0 U	1.0 U	0.11 U	3.6 J[a]
Isopropyl benzene	ug/L	-	-	-	1.0 U	1.0 U	0.090 U	5.1	4.6	0.71 J	1.0 U	1.0 U	0.090 U	33
m&p-Xylenes	ug/L	-	-	-	-	-	0.080 U	-	-	-	-	-	0.080 U	-
Methyl acetate	ug/L	-	-	-	10 U	10 U	1.7 U	40 U	17 U	10 U	10 U	10 U	1.7 U	67 U
Methyl cyclohexane	ug/L	-	-	-	1.0 U	1.0 U	0.33 U	14 J	14	1.0 U	1.0 UJ	1.0 U	0.33 U	37
Methyl tert butyl ether (MTBE)	ug/L	-	-	-	5.0 U	1.0 U	0.070 U	20 U	0.32 J	1.0 U	5.0 U	0.23 J	0.070 U	33 U
Methylene chloride	ug/L	U	U	U	1.0 U	1.0 U	2.6 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	2.6 U	6.7 U
o-Xylene	ug/L	-	-	-	-	-	0.090 U	-	-	-	-	-	0.090 U	-
Styrene	ug/L	U	U	U	1.0 UJ	1.0 U	0.10 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.10 U	6.7 U
Tetrachloroethene	ug/L	U	U	U	1.0 U	1.0 U	0.15 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.15 U	6.7 U
Toluene	ug/L	U	U	U	1.0 U	1.0 U	0.14 U	100	51	1.0 U	1.0 U	1.0 U	0.14 U	6.7 U
trans-1,2-Dichloroethene	ug/L	-	-	-	1.0 U	1.0 U	0.19 U	4.0 U	1.7 U	1.0 U	1.0 U	1.0 U	0.19 U	6.7 U
Trichloroethene	ug/L	U	U	U	1.0 U	1.0 U	0.10 U	4.0 U	1.7 U	1.0 U	1.8[a]	2.1[a]	0.10 U	6.7 U
Vinyl chloride	ug/L	U	U	U	1.0 U	1.0 U	0.20 U	4.0 U	0.40 J[a]	0.31 J[a]	1.0 U	1.0 U	0.20 U	6.7 U
Xylenes (total)	ug/L	U	U	U	2.0 U	2.0 U	0.15 U	75[a]	45[a]	2.0 U	2.0 U	0.43 J	0.15 U	64[a]

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-219**	**MW-219**	**MW-219**	**MW-225**	**MW-225**	**MW-227**	**MW-227**	**MW-227**	**MW-227**	**MW-228**	**MW-229**	**MW-229**
Sample ID:		**GW-38443-011210-NZ-029**	**GW-38443-041410-GL-011**	**GW-38443-051315-GL-013**	**GW-38443-041410-GL-016**	**GW-38443-100517-DA-012**	**GW-38443-041410-GL-013**	**GW-38443-041410-GL-014**	**GW-38443-100417-DA-004**	**GW-38443-100417-DA-005**	**GW-38443-041510-GL-018**	**GW-38443-041510-NZ-019**	**GW-38443-051415-AS-018**
Sample Date:		**1/12/2010**	**4/14/2010**	**5/13/2015**	**4/14/2010**	**10/5/2017**	**4/14/2010**	**4/14/2010**	**10/4/2017**	**10/4/2017**	**4/15/2010**	**4/15/2010**	**5/14/2015**
Sample Depth:		**22-32 ft BGS Duplicate**	**22-32 ft BGS**	**22-32 ft BGS**	**17-27 ft BGS**	**17-27 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS Duplicate**	**22-32 ft BGS**	**22-32 ft BGS Duplicate**	**19-29 ft BGS**	**22-32 ft BGS**	**22-32 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U
1,1-Dichloroethane	ug/L	5.6 U	1.0 UJ	1.0 U	1.0 UJ	0.25 U	1.0 UJ	1.0 UJ	0.25 U	0.25 U	2.0 J	2.9 UJ	4.0 U
1,1-Dichloroethene	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.27 U	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	2.9 U	4.0 U
1,2,4-Trichlorobenzene	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.27 UJ	1.0 U	1.0 U	0.27 U	0.27 U	1.0 U	2.9 U	4.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	11 U	2.0 U	2.0 U	2.0 U	0.0084 U	2.0 U	2.0 U	0.0096 NJ	0.0084 U	2.0 U	5.7 U	8.0 U
1,2-Dichlorobenzene	ug/L	1.8 J	1.2	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	2.9 U	4.0 U
1,2-Dichloroethane	ug/L	5.6 U	1.0 UJ	1.0 U	1.0 UJ	0.30 U	1.0 UJ	1.0 UJ	0.30 U	0.30 U	1.0 UJ	2.9 UJ	4.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	2.9 U	4.0 U
1,3-Dichlorobenzene	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U	2.9 U	4.0 U
1,4-Dichlorobenzene	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	56 U	10 UJ	10 U	10 UJ	1.2 J	10 UJ	10 UJ	1.0 U	1.0 U	10 UJ	29 UJ	40 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	56 U	10 UJ	10 U	10 UJ	0.71 U	10 UJ	10 UJ	0.71 U	0.71 U	10 UJ	29 UJ	40 U
Acetone	ug/L	56 U	10 UJ	10 U	10 UJ	9.7 J	10 UJ	10 UJ	3.0 J	1.8 U	10 UJ	29 UJ	40 U
Benzene	ug/L	**18[ab]**	5.0 U	1.0 U	1.0 U	0.28 U	1.0 U	1.0 U	0.28 U	0.28 U	1.0 U	2.9 U	4.0 U
Bromodichloromethane	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	0.30 U	0.30 U	1.0 U	2.9 U	4.0 U
Bromoform	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	2.9 U	4.0 U
Carbon disulfide	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.34 U	1.0 U	1.0 U	0.34 U	0.34 U	1.0 U	2.9 U	4.0 U
Chlorobenzene	ug/L	6.2	5.1	1.0 U	1.0 U	0.32 U	1.0 U	1.0 U	0.32 U	0.32 U	1.0 U	2.9 U	4.0 U
Chloroethane	ug/L	5.6 UJ	1.0 U	1.0 U	1.0 U	0.41 U	1.0 U	1.0 U	0.41 U	0.41 U	1.0 U	2.9 U	4.0 U
Chloroform (Trichloromethane)	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U	1.0 U	0.31 U	0.31 U	1.0 U	2.9 U	4.0 U
Chloromethane (Methyl chloride)	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U	0.43 U	0.43 U	1.0 U	2.9 U	4.0 U
cis-1,2-Dichloroethene	ug/L	5.6 U	4.8	1.0 U	0.51 J	0.30 U	0.98 J	1.1	2.6	2.6	1.6	12	9.8
Cyclohexane	ug/L	6.9	2.6	1.0 U	1.0 U	0.44 U	0.59 J	0.59 J	0.44 U	0.44 U	1.0 U	2.9 U	4.0 U
Dibromochloromethane	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	0.25 U	0.25 U	1.0 U	2.9 U	4.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	5.6 U	1.0 UJ	1.0 U	1.0 UJ	0.50 U	1.0 UJ	1.0 UJ	0.50 U	0.50 U	1.0 UJ	2.9 UJ	4.0 U
Ethylbenzene	ug/L	**3.9 J[a]**	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	1.0 U	0.26 U	0.26 U	1.0 U	2.9 U	4.0 U
Isopropyl benzene	ug/L	35	9.2	1.0 U	1.0 U	0.21 U	1.0 U	1.0 U	0.21 U	0.21 U	1.0 U	2.9 U	4.0 U
m&p-Xylenes	ug/L	-	-	-	-	0.24 U	-	-	0.24 U	0.24 U	-	-	-
Methyl acetate	ug/L	56 U	10 UJ	10 U	10 UJ	1.4 U	10 UJ	10 UJ	1.4 U	1.4 U	10 UJ	29 UJ	40 U
Methyl cyclohexane	ug/L	40	20	1.8	1.0 U	0.45 U	1.0 U	1.0 U	0.45 U	0.45 U	1.0 U	2.9 U	4.0 U
Methyl tert butyl ether (MTBE)	ug/L	28 U	5.0 U	1.0 U	5.0 U	0.27 U	0.45 J	0.49 J	0.27 U	0.27 U	5.0 U	14 U	4.0 U
Methylene chloride	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U	0.53 U	0.53 U	1.0 U	2.9 U	4.0 U
o-Xylene	ug/L	-	-	-	-	0.28 U	-	-	0.28 U	0.28 U	-	-	-
Styrene	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U
Tetrachloroethene	ug/L	5.6 U	1.0 UJ	1.0 U	1.0 UJ	0.30 U	1.0 UJ	1.0 UJ	0.30 U	0.30 U	1.0 UJ	2.9 UJ	4.0 U
Toluene	ug/L	5.6 U	0.28 J	0.25 J	1.0 U	0.23 U	1.0 U	1.0 U	0.23 U	0.23 U	1.0 U	2.9 U	4.0 U
trans-1,2-Dichloroethene	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.29 U	1.0 U	1.0 U	0.29 U	0.29 U	1.0 U	2.9 U	4.0 U
Trichloroethene	ug/L	5.6 U	1.0 U	1.0 U	1.0 U	0.33 U	1.0 U	1.0 U	0.33 U	0.33 U	1.0 U	**70[ab]**	**85[ab]**
Vinyl chloride	ug/L	5.6 U	**5.8[ab]**	1.0 U	1.0 U	0.45 U	**0.55 J[a]**	**0.47 J[a]**	0.45 U	0.45 U	**6.3[ab]**	2.9 U	4.0 U
Xylenes (total)	ug/L	**66[a]**	1.4 J	2.0 U	2.0 U	0.24 U	2.0 U	2.0 U	0.24 U	0.24 U	2.0 U	5.7 U	8.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-229**	**MW-230**	**MW-233**	**MW-235**	**P-211**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-1**	**VAS-2**	**VAS-2**
Sample ID:		**GW-38443-051415-AS-019**	**GW-38443-101718-JC-221**	**GW-38443-101818-AS-225**	**GW-38443-101818-AS-224**	**GW-38443-100308-GL-019**	**GW-38443-110508-BW-101**	**GW-38443-110508-BW-102**	**GW-38443-110508-BW-103**	**GW-38443-110508-BW-104**	**GW-38443-110608-BW-105**	**GW-38443-010809-KMV-108**	**GW-38443-010909-KMV-109**
Sample Date:		**5/14/2015**	**10/17/2018**	**10/18/2018**	**10/18/2018**	**10/3/2008**	**11/5/2008**	**11/5/2008**	**11/5/2008**	**11/5/2008**	**11/6/2008**	**1/8/2009**	**1/9/2009**
Sample Depth:		**22-32 ft BGS Duplicate**	**27-37 ft BGS**	**22-32 ft BGS**	**29-34 ft BGS**	**14-24 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**57-62 ft BGS**	**45-50 ft BGS**	**60-65 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	2.5 U	0.24 U	0.24 U	16 U	1.0 U	1.7	0.78 J	1.0 U	0.25 J	1.0 U	0.49 J	1.0 U
1,1-Dichloroethane	ug/L	2.5 U	0.17 U	0.17 U	11 U	1.0 UJ	0.62 J	0.80 J	0.42 J	0.33 J	0.52 J	1.2	1.0 U
1,1-Dichloroethene	ug/L	2.5 U	0.19 U	0.19 U	13 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	2.5 U	0.26 U	0.26 U	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	5.0 U	0.0086 U	0.0086 U	0.0086 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	2.5 U	0.27 J	0.15 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	2.5 U	0.21 U	0.21 U	14 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	2.5 U	0.15 U	0.15 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	2.5 U	0.15 U	0.15 U	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	2.5 U	0.16 J	0.16 U	11 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	1.2 U	1.2 U	77 U	0.66 J	1.1 J	0.61 J	10 U	10 U	10 U	0.96 J	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	25 U	0.42 U	0.42 U	28 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ
Acetone	ug/L	25 UJ	5.4 U	5.4 U	360 U	10 UJ	10 U	10 U	10 U	10 U	10 U	3.6 J	10 U
Benzene	ug/L	2.5 U	**4.4[a]**	0.13 U	8.7 U	0.58 J	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	0.54 J	1.0 U
Bromodichloromethane	ug/L	2.5 U	0.17 U	0.17 U	11 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	2.5 U	0.76 U	0.76 U	51 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide	ug/L	2.5 U	0.28 U	0.28 U	19 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	2.5 U	2.2	0.14 U	9.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	2.5 U	0.83 U	0.83 U	55 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	2.5 U	0.13 U	0.13 U	8.7 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	2.5 U	0.20 U	0.20 U	13 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	8.7	2.0 U	0.36 J	1100	0.26 J	3.6	5.9	1.5	0.58 J	1.6	2.2	0.51 J
Cyclohexane	ug/L	2.5 U	0.24 U	0.24 U	16 U	1.0 U	0.36 J	0.22 J	0.18 J	0.28 J	1.0 U	0.41 J	0.15 J
Dibromochloromethane	ug/L	2.5 U	0.39 U	0.39 U	26 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	2.5 U	0.35 U	0.35 U	23 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	2.5 U	0.11 U	0.11 U	7.3 U	0.24 J	1.0 U	1.0 U	1.0 U	0.21 J	1.0 U	0.24 J	1.0 U
Isopropyl benzene	ug/L	2.5 U	0.090 U	0.090 U	6.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	0.15 J	0.080 U	5.3 U	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	25 U	1.7 U	1.7 U	110 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	2.5 U	0.33 U	0.33 U	22 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	2.5 U	0.070 U	0.070 U	4.7 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.19 J	5.0 U
Methylene chloride	ug/L	2.5 U	2.6 U	2.6 U	170 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	0.25 J	0.090 U	6.0 U	-	-	-	-	-	-	-	-
Styrene	ug/L	2.5 U	0.10 U	0.10 U	6.7 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	2.5 U	0.15 U	0.31 J	10 U	1.0 U	0.36 J	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	2.5 U	0.14 U	0.14 U	9.3 U	1.6	0.52 J	0.38 J	0.39 J	0.82 J	0.25 J	1.0	0.54 J
trans-1,2-Dichloroethene	ug/L	2.5 U	0.19 U	0.19 U	13 U	1.0 U	0.19 J	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	**73[ab]**	0.10 U	**1.9[a]**	6.7 U	1.0 U	**2.1[a]**	**1.3[a]**	**0.54 J[a]**	**1.4[a]**	**1.4[a]**	**6.0[ab]**	**0.83 J[a]**
Vinyl chloride	ug/L	2.5 U	0.20 U	0.20 U	**620[ab]**	1.0 U	1.0 U	**1.3[a]**	**0.62 J[a]**	**0.41 J[a]**	**1.0[a]**	1.0 U	1.0 UJ
Xylenes (total)	ug/L	5.0 U	0.40 J	0.15 U	10 U	1.5 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.59 J	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-3	VAS-4	VAS-5	VAS-5	VAS-5	VAS-5
Sample ID:		GW-38443-111208-DD-114	GW-38443-111208-DD-115	GW-38443-111208-DD-116	GW-38443-111208-DD-117	GW-38443-111208-DD-118	GW-38443-111208-DD-119	GW-38443-111308-DD-120	GW-38443-110608-KMV-013	GW-38443-121508-KMV-088	GW-38443-121608-KMV-089	GW-38443-121608-KMV-090	GW-38443-121608-KMV-091
Sample Date:		11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/12/2008	11/13/2008	11/6/2008	12/15/2008	12/16/2008	12/16/2008	12/16/2008
Sample Depth:		22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	32-37 ft BGS Duplicate	37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	25-30 ft BGS	5-10 ft BGS	35-40 ft BGS	40-45 ft BGS	50-55 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	17 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.63 J	1.0 U	17 U	0.36 J	0.57 J	0.50 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	33 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.50 J	17 U	0.21 J	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 J	17 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	170 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	170 U	10 U	10 U	10 U
Acetone	ug/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	7.4 J	21 J	10 U	10 U	10 U
Benzene	ug/L	0.44 J	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	17 U	1.0 U	0.72 J	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	17 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J	17 U	0.68 J	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.83 J	17 U	0.26 J	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.8	5.3 J	5.6	0.66 J	1.0 U
Cyclohexane	ug/L	0.34 J	1.0 UJ	1.0 UJ	1.0 UJ	0.19 J	0.14 J	0.29 J	0.25 J	17 U	0.31 J	0.58 J	0.26 J
Dibromochloromethane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	0.34 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.20 J	**89[ab]**	0.45 J	0.34 J	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	36	0.18 J	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	170 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	0.65 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.96 J	17 U	1.0 U	0.53 J	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	0.21 J	0.30 J	0.33 J	0.34 J	5.0 U	5.0 U	5.0 U	5.0 U	83 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	17 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 UJ
Toluene	ug/L	1.2	0.20 J	1.0 U	1.0 U	0.58 J	0.41 J	0.50 J	1.1	9.7 J	0.45 J	1.2	0.63 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**1.2[a]**	0.31 J	17 U	1.0 U	0.42 J	**2.1[a]**
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.58 J[a]**	17 U	**0.23 J[a]**	1.0 U	**0.28 J[a]**
Xylenes (total)	ug/L	0.72 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	0.57 J	14 J	0.62 J	0.63 J	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
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E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-5	VAS-5	VAS-5	VAS-6	VAS-6	VAS-6	VAS-7	VAS-7	VAS-7	VAS-8	VAS-8
Sample ID:		GW-38443-121608-KMV-092	GW-38443-121608-KMV-093	GW-38443-121608-KMV-094	GW-38443-010709-KMV-105	GW-38443-010709-KMV-106	GW-38443-010709-KMV-107	GW-38443-121808-KMV-102	GW-38443-121908-KMV-103	GW-38443-121908-KMV-104	GW-38443-010809-DD-218	GW-38443-010809-DD-219
Sample Date:		12/16/2008	12/16/2008	12/16/2008	1/7/2009	1/7/2009	1/7/2009	12/18/2008	12/19/2008	12/19/2008	1/8/2009	1/8/2009
Sample Depth:		50-55 ft BGS Duplicate	55-60 ft BGS	60-65 ft BGS	50-55 ft BGS	55-60 ft BGS	60-65 ft BGS	40-45 ft BGS	50-55 ft BGS	55-60 ft BGS	25-30 ft BGS	32-37 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	8.6	4.2	1.6	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,1-Dichloroethane	ug/L	0.49 J	0.47 J	0.51 J	1.6	1.7	1.7	2.5 J	4.3	4.2	1.0 U	1.5 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	2.1 J	1.1 J	0.70 J	10 U	10 U	10 U	10 U	20 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U
Acetone	ug/L	10 U	10 U	10 U	12	4.6 J	1.1 J	1.8 J	10 U	10 U	10 U	20 U
Benzene	ug/L	1.0 U	1.0 U	0.48 J	1.5	0.89 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	0.50 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	0.46 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	0.38 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
cis-1,2-Dichloroethene	ug/L	1.0 U	0.26 J	0.64 J	7.7	4.7	3.4	9.4	11	9.9	1.5	74
Cyclohexane	ug/L	0.39 J	0.41 J	0.40 J	0.48 J	0.55 J	0.28 J	0.27 J	0.25 J	0.31 J	0.49 J	0.37 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 UJ
Ethylbenzene	ug/L	1.0 U	0.22 J	1.0 U	**20[ab]**	**7.4[a]**	2.4	1.0 UJ	1.0 U	1.0 U	0.25 J	2.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	2.1	0.89 J	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.2 J	1.0 J	1.0 UJ	1.0 U	1.0 U	1.0 U	0.55 J	2.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	2.0 U
Tetrachloroethene	ug/L	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U	2.0 U
Toluene	ug/L	0.77 J	0.85 J	0.77 J	12	4.7	1.9	0.54 J	0.44 J	0.68 J	2.0	1.5 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	0.47 J	0.48 J	0.46 J	0.33 J	0.31 J	0.30 J	1.0 U	0.83 J
Trichloroethene	ug/L	**2.1[a]**	**2.2[ab]**	**2.4[ab]**	**10[ab]**	**8.9[ab]**	**5.7[ab]**	**1.2[a]**	**1.2[a]**	**1.3[a]**	**3.2[ab]**	**51[ab]**
Vinyl chloride	ug/L	**0.28 J[a]**	**0.55 J[a]**	**0.98 J[a]**	**2.2[a]**	**0.70 J[a]**	**0.36 J[a]**	**2.0[a]**	**0.82 J[a]**	**1.0[a]**	1.0 U	**3.4[ab]**
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	**70[a]**	28	7.1	2.0 UJ	2.0 U	2.0 U	0.52 J	4.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-8	VAS-8	VAS-8	VAS-8	VAS-9	VAS-9	VAS-9	VAS-9	VAS-11	VAS-11	VAS-11	VAS-11
Sample ID:		GW-38443-011009-KMV-218	GW-38443-011009-KMV-219	GW-38443-011009-KMV-220	GW-38443-011009-KMV-221	GW-38443-111808-DD-131	GW-38443-111808-DD-132	GW-38443-111808-DD-133	GW-38443-111808-DD-134	GW-38443-120808-DD-175	GW-38443-120808-DD-176	GW-38443-120808-DD-177	GW-38443-120808-DD-178
Sample Date:		1/10/2009	1/10/2009	1/10/2009	1/10/2009	11/18/2008	11/18/2008	11/18/2008	11/18/2008	12/8/2008	12/8/2008	12/8/2008	12/8/2008
Sample Depth:		37-42 ft BGS	42-47 ft BGS	47-52 ft BGS	52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	47-52 ft BGS	52-57 ft BGS	22-27 ft BGS	27-32 ft BGS	32-37 ft BGS	37-42 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	0.40 J	0.54 J	0.96 J
1,1-Dichloroethane	ug/L	1.3 J	1.1 J	1.0 J	1.0 J	0.37 J	120 U	20 U	12 U	5.0 U	2.9	2.9	4.8
1,1-Dichloroethene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	5.0 U	4.0 U	4.0 U	4.0 U	2.0 U	250 U	40 U	25 U	10 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	25 U	20 U	20 U	20 U	10 U	1200 U	200 U	120 U	50 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	25 UJ	20 U	20 U	20 U	10 U	1200 U	200 U	120 U	50 U	10 U	10 U	10 U
Acetone	ug/L	25 U	20 U	20 U	20 U	10 U	1200 U	200 U	120 U	50 U	10 U	10 U	10 U
Benzene	ug/L	2.5 U	2.0 U	0.86 J	2.0 U	0.91 J	120 U	20 U	12 U	**2.4 J[a]**	0.56 J	1.0 U	1.0 U
Bromodichloromethane	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 UJ	120 UJ	20 UJ	12 UJ	5.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	2.5 UJ	2.0 UJ	2.0 UJ	2.0 UJ	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	3.6	120 U	20 U	12 U	**130[a]**	5.8	3.0	1.1
Chloroethane	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	6.1	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	64	59	64	65	0.77 J	3900 J	320 J	260 J	5.0 U	5.2	3.9	2.8
Cyclohexane	ug/L	2.5 UJ	2.0 U	0.26 J	2.0 U	0.66 J	120 U	20 U	12 U	0.92 J	0.49 J	0.33 J	0.30 J
Dibromochloromethane	ug/L	2.5 U	2.0 UJ	2.0 UJ	2.0 UJ	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	2.5 UJ	2.0 UJ	2.0 UJ	2.0 UJ	1.0 UJ	120 UJ	20 UJ	12 UJ	5.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	0.35 J	120 U	20 U	12 U	5.0 UJ	0.28 J	0.24 J	1.0 U
Isopropyl benzene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	25 U	20 U	20 U	20 U	10 U	1200 U	200 U	120 U	50 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	2.5 UJ	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	0.52 J	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	12 U	10 U	10 U	10 U	0.86 J	620 U	100 U	62 U	25 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	7.5 J	12 U	5.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 U	120 U	20 U	12 U	5.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	2.5 U	2.0 U	2.0 U	2.0 U	1.0 UJ	120 UJ	20 UJ	12 UJ	5.0 UJ	4.6	3.7	3.2
Toluene	ug/L	0.92 J	0.47 J	0.82 J	0.62 J	22	36 J	5.7 J	4.9 J	2.4 J	2.3	1.9	1.4
trans-1,2-Dichloroethene	ug/L	0.70 J	0.60 J	0.40 J	0.46 J	1.0 U	120 U	20 U	12 U	5.0 U	0.19 J	1.0 U	1.0 U
Trichloroethene	ug/L	**51[ab]**	**42[ab]**	**7.4[ab]**	**3.8[ab]**	0.33 J	**5100[ab]**	**790[ab]**	**610[ab]**	5.0 U	**2.5[ab]**	**2.3[ab]**	**2.8[ab]**
Vinyl chloride	ug/L	**2.6 J[ab]**	**2.7[ab]**	**3.1[ab]**	**3.0[ab]**	**0.97 J[a]**	**760[ab]**	**8.6 J[ab]**	**7.2 J[ab]**	5.0 UJ	**3.7[ab]**	**4.1[ab]**	**5.0[ab]**
Xylenes (total)	ug/L	5.0 U	4.0 U	4.0 U	4.0 U	1.8 J	250 U	40 U	25 U	10 UJ	0.60 J	2.0 U	2.0 U

Notes:
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J - Estimated concentration.
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R - Rejected.
U - Non-detect at associated value.
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- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-11**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-12**	**VAS-14**
Sample ID:		**GW-38443-120808-DD-179**	**GW-38443-111008-KMV-014**	**GW-38443-111008-KMV-015**	**GW-38443-111008-KMV-016**	**GW-38443-111008-KMV-017**	**GW-38443-111008-KMV-018**	**GW-38443-111008-KMV-019**	**GW-38443-111108-KMV-020**	**GW-38443-111108-KMV-021**	**GW-38443-111608-KMV-032**	**GW-38443-111608-KMV-033**
Sample Date:		**12/8/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/10/2008**	**11/11/2008**	**11/11/2008**	**11/16/2008**	**11/16/2008**
Sample Depth:		**42-47 ft BGS**	**20-25 ft BGS**	**20-25 ft BGS Duplicate**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-55 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.1	0.24 J	0.23 J	0.39 J	0.37 J	0.43 J	0.49 J	1.1	1.1	0.26 J	0.24 J
1,1-Dichloroethane	ug/L	4.7	1.0 U	1.0 U	0.35 J	0.33 J	0.34 J	0.36 J	0.55 J	0.64 J	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	19	18	0.72 J	10 U	0.57 J	10 U	10 U	10 U	0.61 J	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U
Acetone	ug/L	10 U	5.9 J	7.2 J	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 U	10 U
Benzene	ug/L	1.0 U	0.41 J	0.39 J	1.0 U	1.0 U	0.46 J	0.25 J	0.22 J	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	0.76 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.76 J	0.67 J
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.8	1.0 U	0.21 J	0.46 J	0.47 J	0.72 J	0.66 J	1.0 U	1.0 U	1.1	0.96 J
Cyclohexane	ug/L	0.41 J	1.0 UJ	1.0 UJ	0.13 J	0.12 J	0.31 J	0.18 J	0.14 J	1.0 UJ	1.0 UJ	1.0 UJ
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	ug/L	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	0.33 J	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.54 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 UJ
Methylene chloride	ug/L	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	2.5	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	0.29 J	0.29 J	0.33 J	0.39 J	0.46 J
Toluene	ug/L	1.5	0.54 J	0.53 J	0.40 J	0.36 J	1.1	0.53 J	0.48 J	0.29 J	0.22 J	0.17 J
trans-1,2-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	0.20 J
Trichloroethene	ug/L	**2.7[ab]**	**2.1[a]**	**2.1[a]**	**4.0[ab]**	**4.4[ab]**	**5.7[ab]**	**6.0[ab]**	**5.6[ab]**	**5.7[ab]**	**0.91 J[a]**	**0.85 J[a]**
Vinyl chloride	ug/L	**4.3[ab]**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.58 J	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 UJ

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South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-14	VAS-14	VAS-14	VAS-14	VAS-14	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15	VAS-15
Sample ID:		GW-38443-111608-KMV-034	GW-38443-111608-KMV-035	GW-38443-111608-KMV-036	GW-38443-111608-KMV-037	GW-38443-111608-KMV-038	GW-38443-120908-KMV-073	GW-38443-120908-KMV-074	GW-38443-120908-KMV-075	GW-38443-120908-KMV-076	GW-38443-120908-KMV-077	GW-38443-120908-KMV-078
Sample Date:		11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/16/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008	12/9/2008
Sample Depth:		35-40 ft BGS	40-45 ft BGS	40-45 ft BGS Duplicate	45-50 ft BGS	50-55 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	45-50 ft BGS Duplicate	50-55 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	0.31 J	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	0.28 J	0.22 J	0.22 J	1.0 U	1.0 U	0.78 J	0.75 J	0.30 J	0.24 J	0.23 J	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	2.1	1.8	2.0	9.9	5.1	2.2	2.0	5.4	7.9	7.8	30
Cyclohexane	ug/L	0.30 J	0.14 J	1.0 UJ	0.35 J	1.0 UJ	0.14 J	1.0 U	0.34 J	0.46 J	0.45 J	0.39 J
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Ethylbenzene	ug/L	0.22 J	1.0 UJ	1.0 UJ	0.23 J	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.20 J	0.20 J	1.0 UJ
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 UJ	5.0 UJ	5.0 UJ	5.0 UJ	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.76 J	0.37 J	0.40 J	0.97 J	1.0 U	0.25 J	0.17 J	0.54 J	0.71 J	0.64 J	0.38 J
trans-1,2-Dichloroethene	ug/L	0.21 J	0.20 J	0.20 J	0.53 J	0.43 J	0.25 J	0.25 J	0.38 J	0.42 J	0.38 J	0.43 J
Trichloroethene	ug/L	1.2[a]	0.87 J[a]	0.85 J[a]	2.6[ab]	3.0[ab]	14[ab]	13[ab]	18[ab]	16[ab]	16[ab]	2.9[ab]
Vinyl chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	0.27 J[a]	1.0 U	1.0 U	1.0 U	1.5[a]	1.4[a]	29[ab]
Xylenes (total)	ug/L	0.50 J	2.0 UJ	2.0 UJ	0.48 J	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ	2.0 UJ

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-15	VAS-17	VAS-17	VAS-17	VAS-19	VAS-19	VAS-19	VAS-21	VAS-22	VAS-22	VAS-22	VAS-22
Sample ID:		GW-38443-120908-KMV-079	GW-38443-112008-KMV-047	GW-38443-112008-KMV-048	GW-38443-120108-KMV-049	GW-38443-121508-DD-189	GW-38443-121508-DD-190	GW-38443-121508-DD-191	GW-38443-102808-KMV-001	GW-38443-121808-DD-205	GW-38443-121808-DD-206	GW-38443-121808-DD-207	GW-38443-121808-DD-208
Sample Date:		12/9/2008	11/20/2008	11/20/2008	12/1/2008	12/15/2008	12/15/2008	12/15/2008	10/28/2008	12/18/2008	12/18/2008	12/18/2008	12/18/2008
Sample Depth:		55-60 ft BGS	30-35 ft BGS	35-40 ft BGS	45-50 ft BGS	17-22 ft BGS	27-32 ft BGS	32-37 ft BGS	25-30 ft BGS	27-32 ft BGS	27-32 ft BGS Duplicate	32-37 ft BGS	42-47 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	ug/L	1.0 U	0.55 J	0.60 J	1.0 U	0.43 J	1.0 U	1.0 U	1.0 U	1.0	0.94 J	1.1	0.37 J
1,1-Dichloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	ug/L	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	ug/L	1.0 U	0.75 J	0.65 J	0.27 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	ug/L	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	ug/L	1.0 U	5.9	6.0	0.20 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	ug/L	1.0 U	0.64 J	0.52 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	ug/L	33	0.26 J	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	3.1	0.60 J	0.53 J	0.58 J	1.0 U
Cyclohexane	ug/L	0.42 J	0.34 J	0.21 J	0.23 J	0.14 J	0.20 J	0.18 J	0.12 J	0.14 J	0.18 J	0.21 J	1.0 U
Dibromochloromethane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	ug/L	1.0 UJ	0.20 J	0.20 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	ug/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Methyl cyclohexane	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methylene chloride	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
Styrene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	ug/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	ug/L	0.44 J	0.82 J	0.61 J	0.50 J	2.3	1.6	1.2	0.33 J	3.8	3.2	6.2	2.2
trans-1,2-Dichloroethene	ug/L	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	ug/L	2.4[ab]	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	15[ab]	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	ug/L	24[ab]	0.71 J[a]	0.85 J[a]	0.22 J[a]	0.27 J[a]	0.91 J[a]	0.68 J[a]	1.0 U	0.66 J[a]	0.58 J[a]	0.75 J[a]	0.35 J[a]
Xylenes (total)	ug/L	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-22	VAS-31	VAS-31	VAS-31	VAS-31	VAS-32	VAS-32	VAS-32	VAS-32	VAS-32	VAS-33	VAS-33
Sample ID:		GW-38443-121808-DD-209	GW-38443-011918-KVM-043	GW-38443-011918-KVM-044	GW-38443-012218-KVM-045	GW-38443-012218-KVM-046	GW-38443-010818-KMV-023	GW-38443-010818-KMV-024	GW-38443-010818-KMV-025	GW-38443-010818-KMV-026	GW-38443-011018-KVM-031	GW-38443-011018-KVM-032
Sample Date:		12/18/2008	1/19/2018	1/19/2018	1/22/2018	1/22/2018	1/8/2018	1/8/2018	1/8/2018	1/8/2018	1/10/2018	1/10/2018
Sample Depth:		47-52 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	25-30 ft BGS	30-35 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	1.0 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U	1.2 U	0.23 U	0.23 U
1,1-Dichloroethane	ug/L	0.50 J	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	8.3 U	1.3 U	0.25 U	0.30 J
1,1-Dichloroethene	ug/L	1.0 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 U	1.4 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	1.0 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 UJ	1.4 UJ	0.27 U	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	2.0 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dichlorobenzene	ug/L	1.0 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	2.6 U	8.7 U	1.3 U	0.78 J	0.26 U
1,2-Dichloroethane	ug/L	1.0 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	1.0 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	1.0 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	3.2 U	11 U	1.6 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	1.0 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U	1.2 U	0.45 J	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	34 UJ	5.1 UJ	1.0 U	1.0 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	10 U	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	7.1 U	24 U	3.6 U	0.71 U	0.71 U
Acetone	ug/L	10 U	1.8 U	5.2 J	1.8 U	1.8 U	1.8 U	18 U	100 U	8.8 U	1.8 U	1.8 U
Benzene	ug/L	1.0 U	0.28 U	0.28 U	0.28 U	0.28 U	0.63 J	2.8 U	9.3 U	1.4 U	0.28 U	0.30 J
Bromodichloromethane	ug/L	1.0 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
Bromoform	ug/L	1.0 U	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	4.3 U	14 U	2.2 U	0.43 U	0.43 U
Carbon disulfide	ug/L	1.0 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	3.4 U	11 U	1.7 U	0.34 U	0.34 U
Chlorobenzene	ug/L	1.0 U	0.32 U	0.32 U	0.32 U	0.32 U	1.3 J	3.2 U	11 U	1.6 U	2.4	0.76 J
Chloroethane	ug/L	1.0 U	0.41 U	0.41 U	0.41 UJ	0.41 UJ	0.41 U	4.1 U	14 U	2.1 U	0.41 UJ	0.41 U
Chloroform (Trichloromethane)	ug/L	1.0 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	3.1 U	10 U	1.6 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	1.0 U	0.43 UJ	0.43 UJ	0.43 U	0.43 U	0.43 U	4.3 U	14 U	2.2 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.87 J	0.30 U	0.54 J	0.53 J	0.65 J	21 J	58 J	83	84	3.2	8.6
Cyclohexane	ug/L	0.20 J	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	4.4 U	15 U	2.2 U	0.44 U	0.44 U
Dibromochloromethane	ug/L	1.0 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.5 U	8.3 U	1.3 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	1.0 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	17 UJ	2.5 UJ	0.50 U	0.50 UJ
Ethylbenzene	ug/L	1.0 U	0.26 U	0.26 U	0.26 U	0.26 U	0.35 J	2.6 U	8.7 U	1.3 U	0.26 U	0.26 U
Isopropyl benzene	ug/L	1.0 U	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	2.1 U	7.0 U	1.1 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	-	0.24 U	0.24 U	0.24 U	0.24 U	0.98 J	2.4 U	8.0 U	1.2 U	0.24 U	0.24 U
Methyl acetate	ug/L	10 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	14 U	48 U	7.2 U	1.4 U	1.4 U
Methyl cyclohexane	ug/L	1.0 U	0.45 U	0.45 U	0.45 U	0.45 U	0.71 J	4.5 U	15 U	2.3 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	5.0 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	2.7 U	9.0 U	1.4 U	0.27 U	0.27 U
Methylene chloride	ug/L	1.0 U	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	15 J	18 U	2.7 U	0.53 U	0.53 U
o-Xylene	ug/L	-	0.28 U	0.28 U	0.28 U	0.28 U	0.38 J	2.8 U	9.3 U	1.4 U	0.28 U	0.28 U
Styrene	ug/L	1.0 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.3 U	7.7 U	1.2 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	1.0 UJ	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	3.0 U	10 U	1.5 U	0.30 U	0.30 U
Toluene	ug/L	1.0	0.43 J	1.4	0.23 U	0.23 U	0.65 J	2.3 U	7.7 U	1.2 U	0.23 U	0.23 J
trans-1,2-Dichloroethene	ug/L	1.0 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	2.9 U	9.7 U	4.3 J	0.29 U	0.29 U
Trichloroethene	ug/L	1.0 U	0.33 U	8.3[ab]	3.0[ab]	2.8[ab]	0.33 U	3.3 U	11 U	1.7 U	0.33 U	0.48 J
Vinyl chloride	ug/L	0.64 J[a]	0.45 U	0.45 U	0.45 U	0.45 U	4.0 J[ab]	75 J[ab]	400[ab]	11[ab]	1.6[a]	14[ab]
Xylenes (total)	ug/L	2.0 U	0.24 U	0.24 U	0.24 U	0.24 U	1.4 J	2.4 U	8.0 U	1.2 U	0.24 U	0.24 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-33	VAS-33	VAS-33	VAS-33	VAS-33	VAS-34	VAS-34	VAS-34	VAS-34	VAS-34	VAS-37	VAS-38
Sample ID:		GW-38443-011018-KVM-033	GW-38443-011018-KVM-034	GW-38443-011018-KVM-035	GW-38443-011118-KVM-036	GW-38443-011118-KVM-037	GW-38443-021618-JC-078	GW-38443-021618-JC-079	GW-38443-021918-JC-080	GW-38443-021918-JC-081	GW-38443-022018-JC-082	GW-38443-091818-JC-172	GW-038443-020718-KVM-066
Sample Date:		1/10/2018	1/10/2018	1/10/2018	1/11/2018	1/11/2018	2/16/2018	2/16/2018	2/19/2018	2/19/2018	2/20/2018	9/18/2018	2/7/2018
Sample Depth:		30-35 ft BGS Duplicate	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	25-30 ft BGS	15-20 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.23 U	0.58 U	0.23 U	0.23 U	0.96 UJ	0.23 U
1,1-Dichloroethane	ug/L	0.30 J	0.25 U	0.25 U	0.28 J	0.36 U	0.25 U	0.25 U	0.63 U	0.25 U	0.28 J	1.5 J	0.25 U
1,1-Dichloroethene	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.39 U	0.27 U	0.27 U	0.68 U	0.27 U	0.27 U	0.76 UJ	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.39 UJ	0.27 U	0.27 U	0.68 U	0.27 U	0.27 U	1.0 UJ	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.26 U	0.26 U	0.65 U	0.26 U	0.26 U	1.1 J	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U	0.84 UJ	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U	0.60 UJ	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.46 U	0.32 U	0.32 U	0.80 U	0.32 U	0.32 U	0.60 UJ	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.23 U	0.58 U	0.23 U	0.23 U	0.64 UJ	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.5 UJ	1.0 U	1.0 U	2.6 U	1.0 U	1.0 U	4.6 UJ	1.0 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	0.71 U	0.71 U	0.71 U	1.0 U	0.71 U	0.71 U	1.8 U	0.71 U	0.71 U	21 J	0.71 U
Acetone	ug/L	1.8 U	1.8 U	1.8 U	1.8 U	2.5 U	1.8 UJ	1.8 U	4.4 UJ	1.8 UJ	1.8 U	22 UJ	1.8 U
Benzene	ug/L	0.32 J	0.28 U	0.28 U	0.28 U	0.40 U	0.28 U	0.28 U	0.71 J	0.28 U	0.28 U	1.1 J	0.28 U
Bromodichloromethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U	0.68 UJ	0.30 U
Bromoform	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U	0.43 U	0.43 U	1.1 U	0.43 U	0.43 U	3.0 UJ	0.43 UJ
Carbon disulfide	ug/L	0.34 U	0.38 J	0.34 U	0.34 U	0.49 U	0.34 U	0.34 U	0.85 U	0.34 U	1.2	1.1 UJ	0.34 U
Chlorobenzene	ug/L	0.77 J	0.32 U	0.32 U	0.32 U	0.46 U	0.32 U	0.32 U	0.80 U	0.32 U	0.32 U	10 J	0.32 U
Chloroethane	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.59 U	0.41 UJ	0.41 UJ	1.0 UJ	0.41 UJ	0.41 U	3.3 UJ	0.69 J
Chloroform (Trichloromethane)	ug/L	0.31 U	0.31 U	0.31 U	0.31 U	0.44 U	0.70 J	0.60 J	0.78 U	0.31 U	0.31 U	0.52 UJ	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.61 U	0.43 U	0.43 U	1.1 U	0.43 U	0.43 U	0.80 UJ	0.43 U
cis-1,2-Dichloroethene	ug/L	8.8	8.6	11	12	45	1.0	5.0	27	4.8	15	0.64 UJ	0.30 U
Cyclohexane	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.63 U	0.44 U	0.44 U	1.1 U	0.44 U	0.44 U	0.96 UJ	0.44 U
Dibromochloromethane	ug/L	0.25 U	0.25 U	0.25 U	0.25 U	0.36 U	0.25 U	0.25 U	0.63 U	0.25 U	0.25 U	1.6 UJ	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.72 UJ	0.50 U	0.50 U	1.3 U	0.50 U	0.50 U	1.4 UJ	0.50 UJ
Ethylbenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.37 U	0.26 U	0.26 U	0.65 U	0.26 U	0.26 U	4.5 J[a]	0.26 U
Isopropyl benzene	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.30 U	0.21 U	0.21 U	0.53 U	0.21 U	0.21 U	1.7 J	0.21 U
m&p-Xylenes	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.24 U	0.24 U	0.60 U	0.24 U	0.24 U	12 J	0.24 U
Methyl acetate	ug/L	1.4 U	1.4 U	1.4 U	1.4 U	2.0 U	1.4 UJ	1.4 U	3.6 U	1.4 U	1.4 U	6.9 UJ	1.4 U
Methyl cyclohexane	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.64 U	0.45 U	0.45 U	1.1 U	0.45 U	0.45 U	1.3 UJ	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.39 U	0.27 U	0.27 U	0.68 U	0.27 U	0.27 U	0.28 UJ	0.27 U
Methylene chloride	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.76 U	0.53 U	0.53 U	2.3 U	0.53 U	0.53 U	10 UJ	0.53 U
o-Xylene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.40 U	0.28 U	0.28 U	0.70 U	0.28 U	0.28 U	6.6 J	0.28 U
Styrene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.23 U	0.58 U	0.23 U	0.23 U	0.40 UJ	0.23 U
Tetrachloroethene	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.43 U	0.30 U	0.30 U	0.75 U	0.30 U	0.30 U	0.60 UJ	0.30 U
Toluene	ug/L	0.25 J	0.23 U	0.23 U	0.23 U	0.33 U	0.23 U	0.85 J	3.9	0.42 J	0.23 U	82 J	0.50 J
trans-1,2-Dichloroethene	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	0.41 U	0.29 U	0.29 J	0.73 U	0.36 J	0.74 J	0.76 UJ	0.29 U
Trichloroethene	ug/L	0.46 J	0.33 U	0.38 J	0.33 U	0.47 U	7.0[ab]	18[ab]	57[ab]	21[ab]	7.1[ab]	2.4 J[ab]	0.33 U
Vinyl chloride	ug/L	15[ab]	9.5[ab]	4.5[ab]	6.3[ab]	6.8[ab]	0.45 U	0.45 U	1.1 U	0.45 U	0.45 U	0.80 UJ	0.45 U
Xylenes (total)	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.34 U	0.24 U	0.24 U	0.60 U	0.24 U	0.24 U	19 J	0.24 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-38	VAS-44	VAS-44	VAS-44
Sample ID:		GW-038443-020718-KVM-067	GW-038443-020718-KVM-068	GW-038443-020718-KVM-069	GW-038443-020718-KVM-070	GW-38443-020818-JC-071	GW-38443-020818-JC-072	GW-38443-020818-JC-073	GW-38443-020918-JC-074	GW-38443-012518-KVM-051	GW-38443-012618-KVM-052	GW-038443-012918-KVM-053
Sample Date:		2/7/2018	2/7/2018	2/7/2018	2/7/2018	2/8/2018	2/8/2018	2/8/2018	2/9/2018	1/25/2018	1/26/2018	1/29/2018
Sample Depth:		20-25 ft BGS	20-25 ft BGS Duplicate	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS	40-45 ft BGS	45-50 ft BGS	50-60 ft BGS	25-30 ft BGS	30-35 ft BGS	35-40 ft BGS
Sampling Company:		CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	15 J	0.23 U	0.23 U	0.23 U	0.23 U
1,1-Dichloroethane	ug/L	0.47 J	0.48 J	2.0	0.72 J	0.25 U	13 J[a]	23 J[a]	1.1	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	6.8 U	11 U	0.27 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	0.27 UJ	6.8 UJ	11 UJ	0.27 U	0.27 U	0.27 U	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dichlorobenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	6.5 U	10 U	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	8.0 U	13 U	0.32 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	9.2 U	0.23 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	1.0 UJ	1.0 UJ	1.0 UJ	1.2 J	1.0 U	26 U	41 U	1.0 U	1.0 U	1.6 J	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	0.71 U	0.71 U	0.71 U	0.71 U	0.71 U	18 U	28 U	0.71 U	0.71 U	0.71 U	0.71 U
Acetone	ug/L	1.8 U	1.8 U	1.8 U	1.8 U	1.8 UJ	44 UJ	70 UJ	1.8 U	2.2 J	4.1 J	1.8 U
Benzene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	7.0 U	11 U	0.28 U	0.47 J	0.83 J	0.28 U
Bromodichloromethane	ug/L	0.36 J	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U	0.30 U	0.30 U	0.30 U
Bromoform	ug/L	0.43 UJ	0.43 UJ	0.43 UJ	0.43 UJ	0.43 U	11 U	17 U	0.43 U	0.43 U	0.43 U	0.43 U
Carbon disulfide	ug/L	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	8.5 U	14 U	0.34 U	0.34 U	0.34 U	0.34 U
Chlorobenzene	ug/L	0.32 U	0.32 U	0.32 U	0.36 J	1.5	8.0 U	13 U	0.32 U	0.32 U	0.32 U	0.32 U
Chloroethane	ug/L	0.41 U	0.41 U	0.41 U	0.41 U	0.41 UJ	10 UJ	16 UJ	0.70 J	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	ug/L	0.32 J	0.31 U	0.31 U	0.31 U	0.31 U	7.8 U	12 U	0.31 U	0.31 U	0.31 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	0.43 U	0.43 U	0.43 U	0.43 U	0.43 U	11 U	17 U	0.43 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	190	520 J	12	0.89 J	3.4	12
Cyclohexane	ug/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	11 U	18 U	0.44 U	0.44 U	0.50 J	0.44 U
Dibromochloromethane	ug/L	0.32 J	0.25 U	0.25 U	0.25 U	0.25 U	6.3 U	10 U	0.25 U	0.25 U	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	0.50 UJ	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	13 U	20 U	0.50 UJ	0.50 U	0.50 U	0.50 UJ
Ethylbenzene	ug/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	6.5 U	10 U	0.26 U	0.26 U	0.37 J	0.26 U
Isopropyl benzene	ug/L	0.21 U	0.21 U	0.21 U	0.21 U	0.21 U	5.3 U	8.4 U	0.21 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.0 U	9.6 U	0.24 U	0.26 J	0.49 J	0.24 U
Methyl acetate	ug/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	36 U	57 U	1.4 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	11 U	18 U	0.45 U	0.45 U	0.45 J	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	6.8 U	11 U	0.27 U	0.27 U	0.27 U	0.27 U
Methylene chloride	ug/L	0.53 U	0.53 U	0.53 U	0.53 U	0.53 U	22 U	36 U	0.53 U	0.53 U	0.53 U	0.53 U
o-Xylene	ug/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	7.0 U	11 U	0.28 U	0.28 U	0.28 U	0.28 U
Styrene	ug/L	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	5.8 U	9.2 U	0.23 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	7.5 U	12 U	0.30 U	0.30 U	0.30 U	0.30 U
Toluene	ug/L	1.1	0.82 J	0.83 J	0.23 U	0.32 J	5.8 U	9.2 U	0.23 U	1.9	4.1	0.43 J
trans-1,2-Dichloroethene	ug/L	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	7.3 U	12 U	0.29 U	0.29 U	0.29 U	0.32 J
Trichloroethene	ug/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	8.3 U	13 U	0.33 U	0.35 J	0.33 U	0.33 U
Vinyl chloride	ug/L	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	230[ab]	270 J[ab]	20[ab]	0.45 U	0.45 U	2.5[ab]
Xylenes (total)	ug/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	6.0 U	9.6 U	0.24 U	0.26 J	0.49 J	0.24 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Analytical Results for Groundwater Samples
OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:		**VAS-44**	**VAS-44**	**VAS-44**	**VAS-44**
Sample ID:		**GW-038443-012918-KVM-054**	**GW-038443-012918-KVM-055**	**GW-38443-013018-KVM-056**	**GW-38443-013018-KVM-057**
Sample Date:		**1/29/2018**	**1/29/2018**	**1/30/2018**	**1/30/2018**
Sample Depth:		**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**50-60 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**				
Volatiles					
1,1,1-Trichloroethane	ug/L	5.8 U	0.23 U	0.23 U	0.23 U
1,1-Dichloroethane	ug/L	6.3 U	0.25 U	0.25 U	0.25 U
1,1-Dichloroethene	ug/L	6.8 U	0.27 U	0.27 U	0.27 U
1,2,4-Trichlorobenzene	ug/L	6.8 UJ	0.27 UJ	0.27 UJ	0.27 UJ
1,2-Dibromo-3-chloropropane (DBCP)	ug/L	0.0086 U	0.0086 U	0.0086 U	0.0086 U
1,2-Dichlorobenzene	ug/L	6.5 U	0.26 U	0.26 U	0.26 U
1,2-Dichloroethane	ug/L	7.5 U	0.30 U	0.30 U	0.30 U
1,2-Dichloroethene (total)	ug/L	-	-	-	-
1,2-Dichloropropane	ug/L	7.5 U	0.30 U	0.30 U	0.30 U
1,3-Dichlorobenzene	ug/L	8.0 U	0.32 U	0.32 U	0.32 U
1,4-Dichlorobenzene	ug/L	5.8 U	0.23 U	0.23 U	0.23 U
2-Butanone (Methyl ethyl ketone) (MEK)	ug/L	26 U	1.0 U	1.0 U	1.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ug/L	18 U	0.71 U	0.71 U	0.71 U
Acetone	ug/L	44 U	1.8 U	1.8 U	1.8 U
Benzene	ug/L	7.0 U	0.98 J	0.49 J	0.48 J
Bromodichloromethane	ug/L	7.5 U	0.34 J	0.30 U	0.30 U
Bromoform	ug/L	11 U	0.43 U	0.43 U	0.43 U
Carbon disulfide	ug/L	8.5 U	0.34 U	0.34 U	0.34 U
Chlorobenzene	ug/L	8.0 U	0.32 U	0.32 U	0.32 U
Chloroethane	ug/L	10 U	0.41 U	0.41 U	0.41 U
Chloroform (Trichloromethane)	ug/L	7.8 U	0.39 J	0.31 U	0.31 U
Chloromethane (Methyl chloride)	ug/L	11 U	0.43 U	0.43 U	0.43 U
cis-1,2-Dichloroethene	ug/L	220	3.5	0.95 J	1.0
Cyclohexane	ug/L	11 U	0.44 U	0.44 U	0.44 U
Dibromochloromethane	ug/L	6.3 U	0.28 J	0.25 U	0.25 U
Dichlorodifluoromethane (CFC-12)	ug/L	13 UJ	0.50 UJ	0.50 UJ	0.50 UJ
Ethylbenzene	ug/L	6.5 U	0.26 U	0.26 U	0.26 U
Isopropyl benzene	ug/L	5.3 U	0.21 U	0.21 U	0.21 U
m&p-Xylenes	ug/L	6.0 U	0.24 U	0.24 U	0.24 U
Methyl acetate	ug/L	36 U	1.4 U	1.4 U	1.4 U
Methyl cyclohexane	ug/L	11 U	0.45 U	0.45 U	0.45 U
Methyl tert butyl ether (MTBE)	ug/L	6.8 U	0.27 U	0.27 U	0.27 U
Methylene chloride	ug/L	13 U	0.53 U	0.53 U	0.53 U
o-Xylene	ug/L	7.0 U	0.28 U	0.28 U	0.28 U
Styrene	ug/L	5.8 U	0.23 U	0.23 U	0.23 U
Tetrachloroethene	ug/L	7.5 U	0.30 U	0.30 U	0.30 U
Toluene	ug/L	5.8 U	0.23 U	0.23 U	0.23 U
trans-1,2-Dichloroethene	ug/L	7.3 U	0.29 U	0.29 U	0.29 U
Trichloroethene	ug/L	8.3 U	0.33 U	0.33 U	0.33 U
Vinyl chloride	ug/L	**250[ab]**	**2.9[ab]**	**6.5[ab]**	**6.8[ab]**
Xylenes (total)	ug/L	6.0 U	0.24 U	0.24 U	0.24 U

Notes:
- The reported result may be a coelution of 3-Methylphenol and/or 4-Methylphenol.
B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).
B - Compound is found in the associated blank as well as in the sample (Organics).
D - Result was obtained from the analysis of a dilution.
E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument.
J - Estimated concentration.
NJ - Tentatively identified compound, estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:								**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**	**Upper Aquifer**
Sample Location:								**BH11-18**	**BH11-18**	**BH12-18**	**BH13-18**	**BH18-19**	**BH18-19**	**BH19-19**
Sample ID:								**GW-38443-073118-JC-018**	**GW-38443-080218-JC-019**	**WG-38443-051818-GL-016**	**WG-38443-051818-GL-015**	**GW-38443-011419-JC-001**	**GW-38443-011419-JC-002**	**GW-38443-011419-JC-003**
Sample Date:								**7/31/2018**	**8/2/2018**	**5/18/2018**	**5/18/2018**	**1/14/2019**	**1/14/2019**	**1/14/2019**
Sample Depth:								**30-34 ft BGS**	**38-43 ft BGS**	**30.5-34.5 ft BGS**	**30.5-34.5 ft BGS**	**14.5-18.5 ft BGS**	**14.5-18.5 ft BGS Duplicate**	**15-19 ft BGS**
Sampling Company:								**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**	**Residential VISL a**	**Commercial VISL b**	**# Samples**	**# Detects**	**Min**	**Max**							
Volatiles														
1,1,1-Trichloroethane	µg/L	742	3110	213	51	0.23	14	0.72 J	0.24 UJ	0.23 U	0.27 J	0.42 J	0.50 J	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	3.23	14.1	213	1	1	1	0.13 U	0.13 UJ	0.32 U	0.32 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	7.64	33.4	213	28	0.18	1	0.17 U	0.17 UJ	0.25 UJ	0.30 J	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	19.5	82.1	168	10	0.2	0.53	0.19 U	0.19 UJ	0.27 UJ	0.27 UJ	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	3.59	15.1	168	1	0.34	0.34	0.26 U	0.26 UJ	0.27 UJ	0.27 UJ	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.176	0.769	165	1	0.036	0.036	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	224000	941000	168	5	1.2	14	1.2 U	1.2 UJ	1.0 U	1.0 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	821	3450	168	1	0.85	0.85	0.54 U	0.54 UJ	1.2 U	1.2 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	55500	233000	168	1	0.76	0.76	0.42 U	0.42 UJ	0.71 U	0.71 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	2250000	9450000	213	8	1.4	53	5.4 U	13 J	1.8 U	1.8 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	1.59	6.93	213	43	0.13	2600	0.13 U	0.33 J	0.28 U	0.28 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.876	3.82	168	4	0.3	0.39	0.17 U	0.17 UJ	0.30 U	0.30 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	124	521	168	2	0.42	0.45	0.28 U	0.28 UJ	0.34 U	0.34 U	0.28 U	0.28 U	0.28 U
Chloroethane	µg/L	2300	9650	213	1	22	22	0.83 U	0.83 UJ	0.41 UJ	0.41 UJ	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.814	3.55	168	35	0.17	6.6	0.13 U	0.13 UJ	0.31 UJ	0.31 UJ	0.13 U	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	26	109	168	1	0.44	0.44	0.20 U	0.20 UJ	0.43 UJ	0.43 UJ	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	-	-	165	37	0.2	10	0.28 J	2.4 J	1.8 J	0.90 J	0.16 U	0.16 U	0.16 U
Cyclohexane	µg/L	102	429	165	62	0.12	620	0.24 U	0.24 UJ	0.44 U	0.44 U	0.24 U	0.24 U	0.24 U
Ethylbenzene	µg/L	3.49	15.2	168	48	0.11	2500	0.11 U	0.11 UJ	0.26 U	0.26 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	88.7	373	165	30	0.36	120	0.090 U	0.090 UJ	0.21 U	0.21 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	-	-	52	9	0.11	0.27	0.080 U	0.080 UJ	0.24 U	0.24 U	0.080 U	0.080 U	0.080 U
Methyl cyclohexane	µg/L	-	-	165	33	0.35	220	0.33 U	0.33 UJ	0.45 U	0.45 U	0.33 U	0.33 U	0.33 U
Methylene chloride	µg/L	471	1980	213	6	0.5	6	2.6 U	2.6 UJ	0.53 UJ	0.53 UJ	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	49.2	207	52	2	0.13	0.14	0.090 U	0.090 UJ	0.28 U	0.28 U	0.090 U	0.090 U	0.090 U
Tetrachloroethene	µg/L	5.76	24.2	213	27	0.15	1.6	0.15 U	0.15 UJ	0.63 J	0.30 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	1920	8070	213	107	0.13	3600	0.14 U	0.15 J	0.23 U	0.23 U	0.14 U	0.14 U	0.14 J
trans-1,2-Dichloroethene	µg/L	-	-	165	15	0.21	1.7	0.19 U	0.21 J	0.29 UJ	0.29 UJ	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	0.518	2.18	213	94	0.17	24	**12[ab]**	**2.9 J[ab]**	**11[ab]**	**7.9[ab]**	0.10 U	0.10 U	0.10 U
Vinyl chloride	µg/L	0.147	2.45	213	1	0.32	0.32	0.20 U	**0.32 J[a]**	0.45 UJ	0.45 UJ	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	38.5	162	213	47	0.15	13000	0.15 U	0.15 UJ	0.24 U	0.24 U	0.15 U	0.15 U	0.15 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102	MW-102
Sample ID:		96-DV-03-S25	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	MW102	GW-38443-100308-GL-018	GW-38443-072309-GL-011	GW-38443-051115-GL-002
Sample Date:		7/9/1996	1/6/1998	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	10/3/2008	7/23/2009	5/11/2015
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		OEPA	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	0.38 J	0.40 J	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 UJ	1.0 U
1,1-Dichloroethane	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	0.22 J	0.32 J	1.0 U
1,1-Dichloroethene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U	10 U
Acetone	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	10 UJ	10 U	10 U
Benzene	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U	1.0 U
Carbon disulfide	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U
Chloroethane	µg/L	22	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 UJ	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	µg/L	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 U
Methylene chloride	µg/L	6 J	U	U	3.3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	10 U	U	U	1.6 J	U	U	U	U	U	U	U	1.0 U	0.37 J	1.0 U
Toluene	µg/L	15	U	6.9	0.9 J	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	10 U	U	0.66 J[a]	0.7 J[a]	U	U	U	U	U	U	U	1.9[a]	2.4[ab]	1.8[a]
Vinyl chloride	µg/L	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	4 J	U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-102	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103	MW-103
Sample ID:		GW-38443-051115-GL-003	96-DV-03-S24	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	MW103	GW-38443-091108-NZ-015	GW-38443-072309-GL-010
Sample Date:		5/11/2015	7/9/1996	1/6/1998	5/28/1998	2/17/1999	11/11/1999	5/10/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	9/11/2008	7/23/2009
Sample Depth:		20-30 ft BGS Duplicate	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS	22-32 ft BGS
Sampling Company:		CRA/GHD	OEPA	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	U	0.41 J	0.41 J
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	10 U	U	1 J	U	U	U	U	U	U	U	U	1.0 UJ	1.0 UJ
1,1-Dichloroethane	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	U	0.37 J	0.27 J
1,1-Dichloroethene	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	-	-	-	-	-	-	-	-	-	-	10 U	10 U
Acetone	µg/L	10 U	10 U	U	U	U	U	U	U	U	U	U	U	10 U	10 U
Benzene	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ
Chloroethane	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	-	0.44 J	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ
Ethylbenzene	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 UJ
Methylene chloride	µg/L	1.0 U	10 U	U	U	2.2 J	U	U	U	U	U	U	U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	0.31 J	10 U	U	U	0.5 J	U	U	U	U	U	U	U	0.35 J	0.42 J
Toluene	µg/L	1.0 U	10 U	0.36 J	6.7	0.7 J	U	U	U	U	U	U	U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U
Trichloroethene	µg/L	1.9[a]	10 U	3.2[ab]	5.1[ab]	4[ab]	8[ab]	5[ab]	U	U	U	U	U	1.5[a]	0.88 J[a]
Vinyl chloride	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	10 U	U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-103**	**MW-104**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-201**	**MW-206**	**MW-206**
Sample ID:		**GW-38443-051115-GL-004**	**96-DV-03-S22**	**MW201**	**MW201**	**MW201**	**MW201**	**MW201**	**MW201**	**MW201**	**MW201**	**MW201**	**GW-38443-091108-NZ-014**	**GW-38443-051515-AS-024**	**MW206**	**MW206**
Sample Date:		**5/11/2015**	**7/9/1996**	**5/28/1998**	**2/16/1999**	**11/11/1999**	**5/10/2000**	**6/6/2001**	**6/14/2002**	**7/1/2004**	**10/15/2004**	**8/2/2005**	**9/11/2008**	**5/15/2015**	**2/18/1999**	**11/11/1999**
Sample Depth:		**22-32 ft BGS**	**N/A**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**	**20-30 ft BGS**
Sampling Company:		**CRA/GHD**	**OEPA**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**Payne**	**CRA/GHD**	**CRA/GHD**	**Payne**	**Payne**
Parameters	**Units**															
Volatiles																
1,1,1-Trichloroethane	µg/L	1.0 U	10 U	7.3	6	8.4	8.9	6.9	5.2	U	U	U	0.45 J	1.0 U	U	U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	1.0 UJ	1.0 U	U	U
1,1-Dichloroethane	µg/L	0.48 J	10 U	U	U	U	U	U	U	U	U	U	0.30 J	1.0 U	U	U
1,1-Dichloroethene	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
1,2,4-Trichlorobenzene	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-
2-Hexanone	µg/L	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	-	-	-	-	-	-	-	-	-	10 U	10 U	-	-
Acetone	µg/L	10 U	10 U	U	U	U	U	U	U	U	U	U	10 U	10 U	U	U
Benzene	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U
Bromodichloromethane	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Carbon disulfide	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Chloroethane	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U
Chloroform (Trichloromethane)	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Chloromethane (Methyl chloride)	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
cis-1,2-Dichloroethene	µg/L	0.38 J	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Cyclohexane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Ethylbenzene	µg/L	1.0 U	10 U	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Isopropyl benzene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Methylene chloride	µg/L	1.0 U	10 U	U	3 J	U	U	U	U	U	U	U	1.0 U	1.0 U	0.5 J	U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	0.56 J	0.45 J	U	U
Toluene	µg/L	1.0 U	10 U	3.5 J	2 J	U	U	U	U	U	U	U	1.0 U	1.0 U	0.6 J	U
trans-1,2-Dichloroethene	µg/L	1.0 U	-	-	-	-	-	-	-	-	-	-	1.0 U	1.0 U	-	-
Trichloroethene	µg/L	**0.54 J[a]**	10 U	**18[ab]**	**17[ab]**	**21[ab]**	**22[ab]**	**21[ab]**	**17[ab]**	**5.9[ab]**	**8[ab]**	**5.7[ab]**	**3.6[ab]**	**1.4[a]**	U	U
Vinyl chloride	µg/L	1.0 U	10 U	U	U	U	U	U	U	U	U	U	1.0 U	1.0 U	U	U
Xylenes (total)	µg/L	2.0 U	10 U	U	U	U	U	U	U	U	U	U	2.0 U	2.0 U	U	U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-206	MW-207	MW-207	MW-207
Sample ID:		MW206	MW206	MW206	MW206	MW206	MW206	GW-38443-090908-NZ-006	GW-38443-072309-GL-008	GW-38443-072309-GL-009	GW-38443-072709-GL-008	GW-38443-100417-DA-008	MW207	MW207	MW207
Sample Date:		5/9/2000	6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	9/9/2008	7/23/2009	7/23/2009	7/27/2009	10/4/2017	2/18/1999	11/11/1999	5/9/2000
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD Duplicate	CRA/GHD	CRA/GHD	Payne	Payne	Payne
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.23 U	U	U	U
1,1,2,2-Tetrachloroethane	µg/L	U	U	U	U	U	U	1.0 U	1.0 UJ	1.0 UJ	-	0.32 U	U	U	U
1,1-Dichloroethane	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.25 U	U	U	U
1,1-Dichloroethene	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.27 U	-	-	-
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	-	1.0 UJ	1.0 UJ	1.0 UJ	-	0.27 U	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.0071 U	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	-	-	10 U	10 U	10 U	-	1.0 U	-	-	-
2-Hexanone	µg/L	-	-	-	-	-	-	10 U	10 U	10 U	-	1.2 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	-	-	10 U	10 U	10 U	-	0.71 U	-	-	-
Acetone	µg/L	U	U	U	U	U	U	10 U	10 U	10 U	-	1.8 U	U	U	U
Benzene	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.28 U	U	U	U
Bromodichloromethane	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.30 U	-	-	-
Carbon disulfide	µg/L	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.34 U	-	-	-
Chloroethane	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.41 U	U	U	U
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.31 U	-	-	-
Chloromethane (Methyl chloride)	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.43 U	-	-	-
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.30 U	-	-	-
Cyclohexane	µg/L	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.44 U	-	-	-
Ethylbenzene	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.26 U	-	-	-
Isopropyl benzene	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.21 U	-	-	-
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	0.24 U	-	-	-
Methyl cyclohexane	µg/L	-	-	-	-	-	-	1.0 U	1.0 UJ	1.0 UJ	-	0.45 U	-	-	-
Methylene chloride	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.53 U	3 J	U	U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	0.28 U	-	-	-
Tetrachloroethene	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.30 U	U	U	U
Toluene	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.23 U	4 J	U	U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	-	1.0 U	1.0 U	1.0 U	-	0.29 U	-	-	-
Trichloroethene	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.33 U	U	U	U
Vinyl chloride	µg/L	U	U	U	U	U	U	1.0 U	1.0 U	1.0 U	-	0.45 U	U	U	U
Xylenes (total)	µg/L	U	U	U	U	U	U	2.0 U	2.0 U	2.0 U	-	0.24 U	U	U	U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-207	MW-213-VAS	MW-213-VAS	MW-213-VAS	MW-213-VAS
Sample ID:		MW207	MW207	MW207	MW207	MW207	GW-38443-090908-NZ-007	GW-38443-072709-GL-017	GW-38443-100417-SCT-009	GW-38443-060609-DR-029	GW-38443-060609-DR-030	GW-38443-060709-DR-031	GW-38443-060709-DR-032
Sample Date:		6/6/2001	6/14/2002	7/1/2004	10/14/2004	8/2/2005	9/9/2008	7/27/2009	10/4/2017	6/6/2009	6/6/2009	6/7/2009	6/7/2009
Sample Depth:		20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-30 ft BGS	20-27 ft BGS	20-27 ft BGS	27-32 ft BGS	32-37 ft BGS
Sampling Company:		Payne	Payne	Payne	Payne	Payne	CRA/GHD	CRA/GHD	CRA/GHD	CRA/GHD	Duplicate CRA/GHD	CRA/GHD	CRA/GHD
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.23 U	4.8	5.0	8.8	8.8
1,1,2,2-Tetrachloroethane	µg/L	U	U	U	U	U	1.0 U	1.0 UJ	0.32 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.25 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.27 U	0.27 J	0.20 J	0.37 J	0.38 J
1,2,4-Trichlorobenzene	µg/L	-	-	-	-	-	1.0 UJ	1.0 UJ	0.27 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.0071 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	-	-	-	-	-	10 U	10 U	1.0 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	-	-	-	-	-	10 U	10 U	1.2 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	-	-	-	-	-	10 U	10 U	0.71 U	10 U	10 U	10 U	10 U
Acetone	µg/L	U	U	U	U	U	10 U	10 U	3.0 J	10 U	10 U	10 U	10 U
Benzene	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.28 U	0.75 J	0.59 J	0.53 J	0.58 J
Bromodichloromethane	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.34 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.41 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.31 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.43 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.30 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	-	-	-	-	-	1.0 U	1.0 UJ	0.44 U	0.33 J	0.18 J	1.0 U	1.0 U
Ethylbenzene	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.26 U	0.45 J	0.39 J	0.38 J	0.28 J
Isopropyl benzene	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.21 U	0.42 J	0.41 J	0.42 J	0.39 J
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	0.24 U	-	-	-	-
Methyl cyclohexane	µg/L	-	-	-	-	-	1.0 U	1.0 UJ	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.53 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	0.28 U	-	-	-	-
Tetrachloroethene	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.30 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ
Toluene	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.23 U	2.1 U	1.9 U	1.6 U	1.3 U
trans-1,2-Dichloroethene	µg/L	-	-	-	-	-	1.0 U	1.0 U	0.29 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	U	U	U	U	U	1.0 U	1.0 U	0.45 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	U	U	U	U	U	2.0 U	2.0 U	0.24 U	0.97 J	0.84 J	1.5 J	0.94 J

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-213-VAS**	**MW-218A**	**MW-218A**	**MW-218A**	**MW-226**	**MW-226**	**MW-234**
Sample ID:		**GW-38443-060709-DR-033**	**GW-38443-060709-DR-034**	**GW-38443-060709-DR-035**	**GW-38443-060709-DR-036**	**GW-38443-072109-GL-001**	**GW-38443-122209-DR-003**	**GW-38443-100517-DA-010**	**GW-38443-041410-NZ-010**	**GW-38443-100417-SCT-007**	**GW-38443-101618-AS-216**
Sample Date:		**6/7/2009**	**6/7/2009**	**6/7/2009**	**6/7/2009**	**7/21/2009**	**12/22/2009**	**10/5/2017**	**4/14/2010**	**10/4/2017**	**10/16/2018**
Sample Depth:		**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**12-22 ft BGS**	**8.5-18.5 ft BGS**	**8.5-18.5 ft BGS**	**25-35 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	10	11	6.6	9.5	1.0 U	1.0 U	0.23 U	1.0 U	0.23 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.32 U	1.0 UJ	0.32 U	0.13 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 U	1.0 UJ	0.25 U	1.0
1,1-Dichloroethene	µg/L	0.45 J	0.53 J	0.34 J	1.0 U	1.0 U	1.0 U	0.27 U	1.0 U	0.27 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.27 UJ	1.0 U	0.27 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0071 U	1.0 U	0.0071 U	0.0087 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	1.0 U	10 UJ	1.0 U	1.2 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	1.2 U	10 UJ	1.2 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 UJ	10 U	10 UJ	0.71 U	10 UJ	0.71 U	0.42 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	1.8 UJ	10 UJ	1.8 U	5.4 U
Benzene	µg/L	0.88 J	0.79 J	0.70 J	1.0 U	1.0 U	1.0 U	0.28 U	1.0 U	0.28 U	0.13 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 U	1.0 U	0.30 U	0.17 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.34 U	1.0 U	0.34 U	0.28 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.41 U	1.0 U	0.41 U	0.83 UJ
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 U	1.0 U	0.31 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.43 U	1.0 U	0.43 U	0.20 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	2.1	1.4	1.0 U	1.0 U	0.30 U	1.0 U	0.30 U	0.16 U
Cyclohexane	µg/L	0.36 J	0.47 J	0.28 J	0.71 J	1.0 UJ	1.0 U	0.44 U	0.59 J	0.44 U	0.24 U
Ethylbenzene	µg/L	0.37 J	0.47 J	1.0 U	0.21 J	1.0 U	1.0 U	0.26 U	1.0 U	0.26 U	0.11 U
Isopropyl benzene	µg/L	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U	1.0 U	0.21 U	0.090 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	0.24 U	-	0.24 U	0.080 U
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	0.78 J	1.0 UJ	1.0 U	0.45 U	1.0 U	0.45 U	0.33 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 U	1.0 U	0.53 U	2.6 U
o-Xylene	µg/L	-	-	-	-	-	-	0.28 U	-	0.28 U	0.090 U
Tetrachloroethene	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	0.30 U	1.0 UJ	0.30 U	0.15 U
Toluene	µg/L	1.6 U	1.8 U	1.5 U	1.3 U	1.0 U	1.0 U	0.23 U	1.0 U	0.23 U	0.14 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	0.38 J	0.32 J	1.0 U	1.0 U	0.29 U	1.0 U	0.29 U	0.19 U
Trichloroethene	µg/L	1.0 U	1.0 U	**4.2[ab]**	**5.2[ab]**	1.0 U	1.0 U	0.33 U	1.0 U	0.33 U	0.10 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U	1.0 U	0.45 U	0.20 U
Xylenes (total)	µg/L	1.2 J	1.4 J	0.49 J	0.47 J	2.0 U	2.0 U	0.24 U	2.0 U	0.24 U	0.15 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-13**	**VAS-20**	**VAS-20**	**VAS-20**
Sample ID:		**GW-38443-120108-DD-144**	**GW-38443-120208-DD-145**	**GW-38443-120208-DD-146**	**GW-38443-120208-DD-147**	**GW-38443-120208-DD-148**	**GW-38443-120208-DD-149**	**GW-38443-120208-DD-150**	**GW-38443-011109-KMV-229**	**GW-38443-011109-KMV-230**	**GW-38443-011109-KMV-231**
Sample Date:		**12/1/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**12/2/2008**	**1/11/2009**	**1/11/2009**	**1/11/2009**
Sample Depth:		**12-17 ft BGS**	**17-22 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**22-27 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 UJ	10 UJ
Acetone	µg/L	50 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U
Benzene	µg/L	5.0 U	1.0 U	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	1.0 U
Bromodichloromethane	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	5.0 U	0.13 J	1.0 U	0.27 J	0.14 J	1.0 U	1.0 U	0.44 J	0.47 J	0.49 J
Ethylbenzene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 J	0.39 J	0.47 J
Isopropyl benzene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.71 J	0.61 J	0.68 J
Methylene chloride	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	180	1.4	1.7	1.5	1.1	0.49 J	0.35 J	1.8	1.7	1.8
trans-1,2-Dichloroethene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ
Xylenes (total)	µg/L	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.78 J	0.75 J	0.78 J

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-20**	**VAS-20**	**VAS-20**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-23**	**VAS-24**	**VAS-24**
Sample ID:		**GW-38443-011109-KMV-232**	**GW-38443-011109-KMV-233**	**GW-38443-011109-KMV-234**	**GW-38443-120408-DD-159**	**GW-38443-120408-DD-160**	**GW-38443-120408-DD-161**	**GW-38443-120408-DD-162**	**GW-38443-120508-DD-163**	**GW-38443-010709-DD-211**	**GW-38443-010709-DD-212**
Sample Date:		**1/11/2009**	**1/11/2009**	**1/11/2009**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/4/2008**	**12/5/2008**	**1/7/2009**	**1/7/2009**
Sample Depth:		**37-42 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**27-32.5 ft BGS**	**27-32.5 ft BGS**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**27-32 ft BGS**	**32-37 ft BGS**
			Duplicate			**Duplicate**					
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13	13
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.24 J	1.0 U	1.0 U	0.24 J	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.35 J	0.32 J	0.14 J	0.16 J	0.16 J	0.12 J	0.16 J	0.12 J	0.56 J	0.39 J
Ethylbenzene	µg/L	0.32 J	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35 J	0.22 J
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	0.53 J	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	0.58 J	1.0 UJ
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	1.3	1.4	0.59 J	4.8	3.5	2.2	2.2	0.75 J	4.4	3.0
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**0.80 J[a]**	**1.0[a]**
Vinyl chloride	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	0.56 J	0.51 J	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.61 J	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-24**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-25**	**VAS-35**
Sample ID:		**GW-38443-010709-DD-213**	**GW-38443-010709-DD-214**	**GW-38443-010709-DD-215**	**GW-38443-010709-DD-216**	**GW-38443-010709-DD-217**	**GW-38443-120608-KMV-060**	**GW-38443-120608-KMV-061**	**GW-38443-120608-KMV-062**	**GW-38443-120708-KMV-063**	**GW-38443-121817-KVM-006**
Sample Date:		**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**1/7/2009**	**12/6/2008**	**12/6/2008**	**12/6/2008**	**12/7/2008**	**12/18/2017**
Sample Depth:		**32-37 ft BGS Duplicate**	**37-42 ft BGS**	**42-47 ft BGS**	**47-52 ft BGS**	**52-57 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**30-35 ft BGS Duplicate**	**50-55 ft BGS**	**20-25 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	12 J	6.8 J	8.3	6.5	5.2	2.7	13	14	0.29 J	0.23 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.32 U
1,1-Dichloroethane	µg/L	1.0 U	0.31 J	0.33 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.64 J	0.25 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	0.22 J	1.0 U	0.27 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.0071 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	1.4 J	1.2 J	10 U	1.0 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	0.71 U
Acetone	µg/L	10 U	1.4 J	10 U	10 U	10 U	10 U	4.2 J	3.9 J	10 UJ	1.8 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.56 J	0.53 J	0.53 J	0.28 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 UJ	1.0 UJ	1.0 U	0.30 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41 UJ
Chloroform (Trichloromethane)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	**6.5[ab]**	0.28 J	0.27 J	1.0 U	0.31 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.60 J	0.99 J	1.0 U	1.0 U	1.0 U	10	1.9 J
Cyclohexane	µg/L	0.38 J	0.44 J	0.36 J	0.32 J	0.43 J	1.0 U	0.57 J	0.66 J	0.22 J	0.44 U
Ethylbenzene	µg/L	0.21 J	0.23 J	0.20 J	1.0 U	0.21 J	1.0 UJ	0.45 J	0.42 J	1.0 U	0.26 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.21 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	0.24 U
Methyl cyclohexane	µg/L	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	1.0 U	0.61 J	0.72 J	1.0 U	0.45 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.53 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	0.28 U
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ	1.0 UJ	1.0 UJ	0.30 U
Toluene	µg/L	3.1	2.5	2.4	1.6	2.1	0.19 J	1.2	1.2	0.48 J	0.23 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.7	0.29 U
Trichloroethene	µg/L	**0.96 J[a]**	**3.8 J[ab]**	**4.5[ab]**	**12[ab]**	**11[ab]**	1.0 U	**3.5[ab]**	**3.8[ab]**	0.33 J	0.33 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.45 U
Xylenes (total)	µg/L	2.0 U	0.50 J	2.0 U	2.0 U	2.0 U	2.0 UJ	1.8 J	0.94 J	2.0 U	0.24 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-35**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-36**	**VAS-39**	**VAS-39**
Sample ID:		**GW-38443-121817-KVM-007**	**GW-38443-100418-JC-194**	**GW-38443-100418-JC-195**	**GW-38443-100418-JC-196**	**GW-38443-100518-JC-197**	**GW-38443-100518-JC-199**	**GW-38443-100518-JC-200**	**GW-38443-100818-JC-201**	**GW-38443-012219-JC-214**	**GW-38443-012319-JC-215**
Sample Date:		**12/18/2017**	**10/4/2018**	**10/4/2018**	**10/4/2018**	**10/5/2018**	**10/5/2018**	**10/5/2018**	**10/8/2018**	**1/22/2019**	**1/23/2019**
Sample Depth:		**25-30 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**5-10 ft BGS**	**10-15 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.23 U	2.3	3.2 J	5.3	3.9 J	1.2	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.32 U	0.13 U	0.13 UJ	0.13 U	0.13 UJ	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	0.25 U	0.17 U	0.17 UJ	0.17 U	0.17 UJ	0.17 U	0.18 J	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.27 U	0.19 U	0.19 UJ	0.19 U	0.42 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.27 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 UJ	0.26 UJ	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0071 U	0.036	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.0 U	1.2 U	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	1.2 U	0.54 U	0.54 UJ	0.54 U	0.54 UJ	0.54 U	0.54 U	0.54 U	0.54 U	0.54 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.71 U	0.42 U	0.42 UJ	0.42 U	0.42 UJ	0.42 U	0.42 U	0.42 UJ	0.42 U	0.42 UJ
Acetone	µg/L	1.8 UJ	5.4 U	5.4 UJ	5.4 U	5.4 UJ	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.28 U	0.13 U	0.13 UJ	0.13 U	0.16 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.30 U	0.17 U	0.17 UJ	0.17 U	0.17 UJ	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	0.34 U	0.28 U	0.28 UJ	0.28 U	0.28 UJ	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Chloroethane	µg/L	0.41 UJ	0.83 U	0.83 UJ	0.83 U	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.31 U	0.13 U	0.13 UJ	0.13 U	0.13 UJ	0.17 J	0.22 J	0.30 J	0.13 U	0.13 U
Chloromethane (Methyl chloride)	µg/L	0.43 U	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	1.9	0.16 U	0.16 UJ	0.16 U	0.16 UJ	0.16 U	0.16 U	0.55 J	0.16 U	0.16 U
Cyclohexane	µg/L	1.1	0.24 U	0.24 UJ	0.24 U	0.24 UJ	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Ethylbenzene	µg/L	0.26 U	0.11 U	0.11 UJ	0.11 U	0.11 UJ	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.21 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.24 U	0.080 U	0.080 UJ	0.080 U	0.14 J	0.080 U	0.080 U	0.080 U	0.15 J	0.080 U
Methyl cyclohexane	µg/L	0.45 U	0.33 U	0.33 UJ	0.33 U	0.33 UJ	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methylene chloride	µg/L	0.53 U	2.6 U	2.6 UJ	2.6 U	2.6 UJ	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.28 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Tetrachloroethene	µg/L	0.30 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 UJ	0.36 J
Toluene	µg/L	0.24 J	0.35 U	0.50 UJ	0.45 U	0.53 J	0.42 J	0.41 J	0.41 J	0.22 J	0.27 J
trans-1,2-Dichloroethene	µg/L	0.29 U	0.19 U	0.19 UJ	0.19 U	0.19 UJ	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichloroethene	µg/L	0.33 U	0.10 U	**0.61 J[a]**	**1.1[a]**	**0.97 J[a]**	**1.7[a]**	**1.8[a]**	**1.0[a]**	0.10 U	0.10 U
Vinyl chloride	µg/L	0.45 U	0.20 U	0.20 UJ	0.20 U	0.20 UJ	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.24 U	0.15 U	0.15 UJ	0.15 U	0.15 UJ	0.15 U	0.15 U	0.15 U	0.15 J	0.15 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**VAS-39**	**BH1-13 DP&L**	**BH2-13 DP&L**	**BH3-13 DP&L**	**BH4-13 DP&L**
Sample ID:		**GW-38443-012319-JC-216**	**GW-38443-012319-JC-217**	**GW-38443-012319-JC-218**	**GW-38443-012919-JC-219**	**GW-38443-012919-JC-220**	**GW-38443-020419-JC-221**	**GW-38443-021213-JC-004**	**GW-38443-021113-JC-002**	**GW-38443-021213-JC-006**	**GW-38443-021313-JC-008**
Sample Date:		**1/23/2019**	**1/23/2019**	**1/23/2019**	**1/29/2019**	**1/29/2019**	**2/4/2019**	**2/12/2013**	**2/11/2013**	**2/12/2013**	**2/13/2013**
Sample Depth:		**15-20 ft BGS**	**20-25 ft BGS**	**25-30 ft BGS**	**30-40 ft BGS**	**30-40 ft BGS Duplicate**	**40-50 ft BGS**	**27-31 ft BGS**	**27.5-31.5 ft BGS**	**27-31 ft BGS**	**28-32 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.28 J	0.64 J	0.79 J	0.82 J	0.37 J	1.0 U	1.0 U	0.69 J	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.23 J	0.27 J	0.27 J	0.27 J	1.0 U	1.0 U	0.18 J	1.0 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 UJ	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	0.54 UJ	0.54 UJ	0.54 UJ	0.54 U	0.54 U	0.54 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 UJ	0.42 UJ	0.42 UJ	0.42 U	0.42 U	0.42 U	10 U	10 U	10 U	10 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	10 U	10 U	10 U	10 U
Benzene	µg/L	0.13 U	0.20 J	0.13 U	0.17 J	0.14 J	0.13 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	0.13 U	0.45 J	0.13 U	0.13 U	0.13 U	0.13 U	1.0 U	1.0 U	1.0 U	**1.6[a]**
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	0.080 U	0.11 J	0.080 U	0.080 U	0.080 U	0.080 U	-	-	-	-
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	-	-	-	-
Tetrachloroethene	µg/L	0.79 J	0.59 J	0.15 U	0.15 U	0.15 U	0.15 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	µg/L	0.30 J	0.47 J	0.32 J	0.26 J	0.29 J	0.28 J	1.0 U	0.14 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.21 J	**0.67 J[a]**	**1.8[a]**	**2.7[ab]**	**2.8[ab]**	**2.4[ab]**	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	2.0 U	2.0 U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH5-13 DP&L**	**BH6-13 DP&L**	**BH7-13 DP&L**	**BH8-13 DP&L**	**BH9-13 DP&L**	**BH10-13 DP&L**	**BH11-13 DP&L**	**BH12-13 DP&L**	**BH13-13 DP&L**	**BH14-13 DP&L**
Sample ID:		**GW-38443-021313-JC-010**	**GW-38443-021413-JC-012**	**GW-38443-021413-JC-014**	**GW-38443-021513-JC-018**	**GW-38443-021513-JC-016**	**GW-38443-021813-JC-020**	**GW-38443-021813-JC-022**	**GW-38443-021913-JC-024**	**GW-38443-022013-JC-026**	**GW-38443-022113-JC-028**
Sample Date:		**2/13/2013**	**2/14/2013**	**2/14/2013**	**2/15/2013**	**2/15/2013**	**2/18/2013**	**2/18/2013**	**2/19/2013**	**2/20/2013**	**2/21/2013**
Sample Depth:		**28-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**27-31 ft BGS**	**26.5-30.5 ft BGS**	**29-33 ft BGS**	**30-34 ft BGS**	**28-32 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.13 J	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	0.35 J	0.81 J	1.0 U	1.0 U	0.21 J	1.0 U	1.0 U	1.0 U	0.18 J	0.28 J
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.70 J	0.82 J	1.3	0.92 J
Cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 J	1.0 U
Toluene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U
Trichloroethene	µg/L	0.27 J	0.17 J	1.0 U	1.0 U	0.30 J	0.51 J	**1.5[a]**	**1.5[a]**	**0.63 J[a]**	0.28 J
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**BH15-13 DP&L**	**BH15-18**	**BH15-18**	**BH16-13 DP&L**	**BH16-18**	**BH17-13 DP&L**	**BH18-13 DP&L**	**BH19-13 DP&L**	**BH20-13 DP&L**	**BH20-13 DP&L**
Sample ID:		**GW-38443-022113-JC-030**	**GW-38443-090518-JC-152**	**GW-38443-090518-JC-153**	**GW-38443-022213-JC-034**	**GW-38443-090418-JC-151**	**GW-38443-022113-JC-032**	**GW-38443-022513-JC-036**	**GW-38443-022513-JC-038**	**GW-38443-022613-JC-040**	**GW-38443-022613-JC-041**
Sample Date:		**2/21/2013**	**9/5/2018**	**9/5/2018**	**2/22/2013**	**9/4/2018**	**2/21/2013**	**2/25/2013**	**2/25/2013**	**2/26/2013**	**2/26/2013**
Sample Depth:		**27-31 ft BGS**	**25-30 ft BGS**	**25-30 ft BGS**	**27-31 ft BGS**	**25-30 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**	**26-30 ft BGS**	**27-31 ft BGS**	**27-31 ft BGS**
				Duplicate							**Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	0.24 UJ	0.24 UJ	0.23 J	0.24 U	0.45 J	2.0 U	3.3 U	4.3	4.4
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	0.13 UJ	0.13 UJ	1.0 U	0.13 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	0.17 UJ	0.17 UJ	1.0 U	0.17 U	1.0 U	2.0 U	3.3 U	0.27 J	0.28 J
1,1-Dichloroethene	µg/L	1.0 U	0.19 UJ	0.19 UJ	1.0 U	0.19 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 UJ	0.26 UJ	0.26 UJ	1.0 U	0.34 J	1.0 UJ	2.0 U	3.3 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	0.0087 U	0.0087 U	1.0 U	0.0087 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	1.2 UJ	1.2 UJ	10 U	1.2 J	10 U	20 U	33 U	10 U	10 U
2-Hexanone	µg/L	10 U	0.54 UJ	0.54 UJ	10 U	0.85 J	10 U	20 U	33 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	0.42 UJ	0.42 UJ	10 U	0.76 J	10 U	20 U	33 U	10 U	10 U
Acetone	µg/L	10 U	5.4 UJ	5.4 UJ	10 U	5.4 U	10 U	20 U	33 U	10 U	10 U
Benzene	µg/L	1.0 U	0.16 J	0.21 J	1.0 U	0.13 U	1.0 U	2.0 U	**14[ab]**	1.0 U	1.0 U
Bromodichloromethane	µg/L	1.0 U	0.17 UJ	0.17 UJ	1.0 U	0.17 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
Carbon disulfide	µg/L	1.0 U	0.28 UJ	0.28 UJ	1.0 U	0.28 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	0.83 UJ	0.83 UJ	1.0 U	0.83 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	0.39 J	0.13 UJ	0.13 UJ	0.55 J	0.13 U	0.80 J	2.0 U	3.3 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	0.20 UJ	0.20 UJ	1.0 U	0.20 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	4.6	0.16 UJ	0.16 UJ	1.0 U	0.20 J	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
Cyclohexane	µg/L	1.0 U	0.24 UJ	0.24 UJ	1.0 U	0.24 U	1.0 U	20	**110[a]**	1.0 U	1.0 U
Ethylbenzene	µg/L	1.0 U	0.18 J	0.20 J	1.0 U	0.11 J	1.0 U	2.0 U	0.61 J	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	0.090 UJ	0.090 UJ	1.0 U	0.090 U	1.0 U	20	26	0.68 J	0.72 J
m&p-Xylenes	µg/L	-	0.23 J	0.24 J	-	0.080 U	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	0.33 UJ	0.33 UJ	1.0 U	0.33 U	1.0 U	14	41	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	2.6 UJ	2.6 UJ	1.0 U	2.6 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
o-Xylene	µg/L	-	0.13 J	0.14 J	-	0.090 U	-	-	-	-	-
Tetrachloroethene	µg/L	0.35 J	0.17 J	0.15 J	0.60 J	0.15 U	0.72 J	2.0 U	3.3 U	1.0 U	1.0 U
Toluene	µg/L	0.15 J	3.7 J	4.6 J	1.0 U	0.29 J	0.13 J	2.0 U	1.2 J	0.16 J	0.16 J
trans-1,2-Dichloroethene	µg/L	0.39 J	0.19 UJ	0.19 UJ	1.0 U	0.19 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
Trichloroethene	µg/L	0.33 J	**1.8 J[a]**	**1.5 J[a]**	0.18 J	**1.4[a]**	0.22 J	2.0 U	3.3 U	0.41 J	0.43 J
Vinyl chloride	µg/L	1.0 U	0.20 UJ	0.20 UJ	1.0 U	0.20 U	1.0 U	2.0 U	3.3 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	0.36 J	0.38 J	2.0 U	0.15 U	2.0 U	4.0 U	8.4	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**GW-2**	**GW-3**	**GW-5**	**GW-5**	**GW-5**	**GW-6**	**GW-7**	**GW-8**	**MW-1**	**MW-3**
Sample ID:		**GW-38443-010710-NZ-015**	**GW-38443-010710-JC-018**	**GW-38443-011110-NZ-024**	**GW-38443-062415-JC-029**	**GW-38443-062415-JC-030**	**GW-38443-011110-JC-025**	**GW-38443-012510-NZ-032**	**GW-38443-012510-NZ-031**	**GW-38443-010710-JC-017**	**GW-38443-010710-NZ-016**
Sample Date:		**1/7/2010**	**1/7/2010**	**1/11/2010**	**6/24/2015**	**6/24/2015**	**1/11/2010**	**1/25/2010**	**1/25/2010**	**1/7/2010**	**1/7/2010**
Sample Depth:		**20.4-30.4 ft BGS**	**22-32 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS Duplicate**	**24-34 ft BGS**	**24-34 ft BGS**	**24-34 ft BGS**	**24.4-34.4 ft BGS**	**20-30 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	3.3 U	1.0 U	77 UJ	1.0 U	1.3 U	71 UJ	1.0 UJ	2.0 UJ	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	0.50 J	0.70 J	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	3.3 U	1.0 U	77 UJ	1.0 U	1.3 U	71 UJ	1.0 UJ	2.0 UJ	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U	10 U	10 U
2-Hexanone	µg/L	33 U	10 U	770 U	10 U	13 U	710 U	10 UJ	20 UJ	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U	10 U	10 U
Acetone	µg/L	33 U	10 U	770 U	10 U	13 U	710 U	10 U	20 U	10 U	10 U
Benzene	µg/L	3.3 U	1.0 U	**2600[ab]**	**35[ab]**	**35[ab]**	**120[ab]**	1.0 U	2.0 U	1.0 U	1.0 U
Bromodichloromethane	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
Carbon disulfide	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 UJ	2.0 UJ	1.0 U	1.0 U
Chloroethane	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
Chloromethane (Methyl chloride)	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	77	1.0 U	**420[a]**	14	11	**280[a]**	1.0 U	50	9.0	1.0 U
Ethylbenzene	µg/L	1.4 J	1.0 U	**160[ab]**	1.0 U	1.3 U	**1600[ab]**	1.0 U	**3.5[a]**	**5.2[a]**	1.0 U
Isopropyl benzene	µg/L	15	1.0 U	58 J	0.75 J	0.68 J	71	1.0 U	10	3.5	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	21	1.0 U	110	4.6	3.5	86	1.0 U	6.0	0.96 J	1.0 U
Methylene chloride	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
Toluene	µg/L	3.3 U	1.0 U	26 J	0.25 J	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	3.3 U	**0.78 J[a]**	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	**0.60 J[a]**	1.0 U
Vinyl chloride	µg/L	3.3 U	1.0 U	77 U	1.0 U	1.3 U	71 U	1.0 U	2.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	1.4 J	2.0 U	**130 J[a]**	0.56 J	2.5 U	**4200[ab]**	2.0 U	4.0 U	3.4	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-4**	**MW-222A**	**MW-222A**	**MW-223A**	**MW-223A**	**MW-224A**	**MW-224A**	**MW-A**	**MW-A**	**MW-B**
Sample ID:		**GW-38443-010610-DR-013**	**GW-38443-041310-NZ-007**	**GW-38443-051215-GL-009**	**GW-38443-041310-NZ-005**	**GW-38443-102518-JC-227**	**GW-38443-041310-GL-001**	**GW-38443-101618-AS-215**	**GW-38443-010810-NZ-020**	**GW-38443-062315-JC-026**	**GW-38443-010810-NZ-023**
Sample Date:		**1/6/2010**	**4/13/2010**	**5/12/2015**	**4/13/2010**	**10/25/2018**	**4/13/2010**	**10/16/2018**	**1/8/2010**	**6/23/2015**	**1/8/2010**
Sample Depth:		**N/A**	**20-30 ft BGS**	**20-30 ft BGS**	**33-38 ft BGS**	**33-38 ft BGS**	**35-40 ft BGS**	**35-40 ft BGS**	**N/A**	**N/A**	**N/A**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.24 U	1.0 U	0.25 J	6.7 U	3.3 U	120 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.13 U	1.0 U	0.13 U	6.7 U	3.3 U	120 UJ
1,1-Dichloroethane	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.38 J	1.0 U	0.17 U	6.7 U	3.3 U	120 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.19 U	1.0 U	0.19 U	6.7 U	3.3 U	120 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.26 U	1.0 U	0.26 U	6.7 U	3.3 U	120 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.0087 U	1.0 U	0.0087 U	6.7 U	3.3 U	120 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 U	10 U	10 U	1.2 U	10 U	1.2 U	14 J	9.9 J	1200 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	0.54 U	10 U	0.54 U	67 U	33 U	1200 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 UJ	10 U	10 UJ	0.42 U	10 U	0.42 U	67 U	33 U	1200 U
Acetone	µg/L	10 UJ	10 U	10 U	10 U	5.4 U	10 U	5.4 U	67 UJ	53	1200 UJ
Benzene	µg/L	**2.5[a]**	1.0 U	1.0 U	1.0 U	0.13 U	1.0 U	0.13 U	**55[ab]**	**80[ab]**	**1900[ab]**
Bromodichloromethane	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.17 U	1.0 U	0.17 U	6.7 U	3.3 U	120 U
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.28 U	1.0 U	0.28 U	6.7 U	3.3 U	120 U
Chloroethane	µg/L	1.0 U	1.0 UJ	1.0 U	1.0 UJ	0.83 U	1.0 U	0.83 UJ	6.7 U	3.3 U	120 U
Chloroform (Trichloromethane)	µg/L	1.0 U	0.20 J	1.0 U	**0.94 J[a]**	0.13 U	1.0 U	0.13 U	6.7 U	3.3 U	120 U
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	0.20 U	6.7 U	3.3 U	120 U
cis-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	2.6	1.1	1.0 U	0.16 U	6.7 U	3.3 U	120 U
Cyclohexane	µg/L	24	1.0 UJ	1.0 U	1.0 UJ	0.24 U	1.0 U	0.24 U	65	67	**310[a]**
Ethylbenzene	µg/L	0.28 J	1.0 U	1.0 U	1.0 U	0.11 U	1.0 U	0.11 U	**210[ab]**	**8.2[a]**	**2500[ab]**
Isopropyl benzene	µg/L	26	1.0 U	1.0 U	1.0 U	0.090 U	1.0 U	0.090 U	23	21	83 J
m&p-Xylenes	µg/L	-	-	-	-	0.080 U	-	0.080 U	-	-	-
Methyl cyclohexane	µg/L	17	1.0 U	1.0 U	1.0 U	0.33 U	1.0 U	0.33 U	28	40	120
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	2.6 U	1.0 U	2.6 U	6.7 U	3.3 U	120 U
o-Xylene	µg/L	-	-	-	-	0.090 U	-	0.090 U	-	-	-
Tetrachloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.15 U	1.0 U	0.15 U	6.7 U	3.3 U	120 U
Toluene	µg/L	0.57 J	1.0 U	1.0 U	1.0 U	0.14 U	1.0 U	0.14 U	3.5 J	2.8 J	**3600[a]**
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	0.23 J	0.19 U	1.0 U	0.19 U	6.7 U	3.3 U	120 U
Trichloroethene	µg/L	1.0 U	0.33 J	1.0 U	0.43 J	**0.55 J[a]**	1.0 U	0.10 U	6.7 U	3.3 U	120 U
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	0.20 U	1.0 U	0.20 U	6.7 U	3.3 U	120 UJ
Xylenes (total)	µg/L	0.90 J	2.0 U	2.0 U	2.0 U	0.15 U	2.0 U	0.15 U	**61[a]**	3.9 J	**13000[ab]**

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**MW-B**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-26**	**VAS-27**
Sample ID:		**GW-38443-062315-JC-025**	**GW-38443-110409-DR-057**	**GW-38443-110409-DR-058**	**GW-38443-110409-DR-059**	**GW-38443-110409-DR-060**	**GW-38443-110409-DR-061**	**GW-38443-110509-DR-062**	**GW-38443-110509-DR-063**	**GW-38443-110509-DR-064**	**GW-38443-111109-DR-088**	
Sample Date:		**6/23/2015**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/4/2009**	**11/5/2009**	**11/5/2009**	**11/5/2009**	**11/11/2009**	
Sample Depth:		**N/A**	**26-31 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**41-46 ft BGS**	**46-51 ft BGS**	**51-56 ft BGS**	**56-61 ft BGS**	**26-31 ft BGS**	
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**Duplicate CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
1,1,2,2-Tetrachloroethane	µg/L	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U	50 U	1.0 U	
1,1-Dichloroethane	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
1,1-Dichloroethene	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
1,2,4-Trichlorobenzene	µg/L	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U	50 U	1.0 U	
1,2-Dibromoethane (Ethylene dibromide)	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	330 U	170 U	170 U	170 U	1200 UJ	1200 U	1200 U	1200 U	500 U	10 U	
2-Hexanone	µg/L	330 U	170 U	170 U	170 U	1200 U	1200 U	1200 U	1200 U	500 U	10 U	
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	330 U	170 U	170 U	170 U	1200 U	1200 U	1200 U	1200 U	500 U	10 U	
Acetone	µg/L	34 J	170 U	170 U	170 U	1200 U	1200 U	1200 U	1200 U	500 U	1.4 J	
Benzene	µg/L	250[ab]	5.9 J[a]	5.9 J[a]	6.2 J[a]	37 J[ab]	120 U	120 U	120 U	50 U	0.84 J	
Bromodichloromethane	µg/L	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U	50 U	1.0 U	
Carbon disulfide	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
Chloroethane	µg/L	33 U	17 UJ	17 UJ	17 UJ	120 UJ	120 UJ	120 U	120 U	50 U	1.0 U	
Chloroform (Trichloromethane)	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	0.65 J	
Chloromethane (Methyl chloride)	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
cis-1,2-Dichloroethene	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	0.26 J	
Cyclohexane	µg/L	200[a]	220[a]	230[a]	230[a]	620[ab]	610[ab]	410[a]	500[ab]	390[a]	0.54 J	
Ethylbenzene	µg/L	600[ab]	330[ab]	320[ab]	350[ab]	1900[ab]	1600[ab]	1600[ab]	1600[ab]	890[ab]	0.37 J	
Isopropyl benzene	µg/L	38	67	66	70	100 J[a]	98 J[a]	110 J[a]	120[a]	82	1.0 U	
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-	
Methyl cyclohexane	µg/L	87	120	130	120	210	220	150	190	210	0.53 J	
Methylene chloride	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-	
Tetrachloroethene	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
Toluene	µg/L	64	10 J	9.8 J	11 J	320	300	86 J	100 J	29 J	1.5	
trans-1,2-Dichloroethene	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	1.0 U	
Trichloroethene	µg/L	33 U	17 U	17 U	17 U	120 U	120 U	120 U	120 U	50 U	0.42 J	
Vinyl chloride	µg/L	33 U	17 U	17 U	17 U	120 UJ	120 U	120 U	120 U	50 U	1.0 U	
Xylenes (total)	µg/L	1100[ab]	1200[ab]	1200[ab]	1300[ab]	8100[ab]	7100[ab]	9400[ab]	9200[ab]	5100[ab]	0.80 J	

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-27**	**VAS-28**	**VAS-28**	**VAS-28**	**VAS-29**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**	**VAS-30**
Sample ID:		**GW-38443-111109-DR-089**	**GW-38443-111909-DR-099**	**GW-38443-111909-DR-100**	**GW-38443-111909-DR-101**	**GW-38443-030210-DR-001**	**GW-38443-030610-DR-016**	**GW-38443-030610-DR-017**	**GW-38443-030710-DR-018**	**GW-38443-030710-DR-019**	**GW-38443-030710-DR-020**
Sample Date:		**11/11/2009**	**11/19/2009**	**11/19/2009**	**11/19/2009**	**3/2/2010**	**3/6/2010**	**3/6/2010**	**3/7/2010**	**3/7/2010**	**3/7/2010**
Sample Depth:		**31-36 ft BGS**	**26-31 ft BGS**	**31-36 ft BGS**	**36-41 ft BGS**	**26-36 ft BGS**	**31-36 ft BGS**	**36-46 ft BGS**	**46-56 ft BGS**	**56-66 ft BGS**	**56-66 ft BGS Duplicate**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	10 U	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	10 U	10 UJ	10 UJ	10 UJ	10 UJ	10 U	10 U	10 U	10 U	10 U
Acetone	µg/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	µg/L	1.0 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	0.84 J	0.50 J	0.50 J	0.49 J
Bromodichloromethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.30 J	0.35 J
Carbon disulfide	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform (Trichloromethane)	µg/L	0.30 J	0.38 J	0.45 J	0.47 J	0.20 J	1.0 U	1.0 U	1.0 U	0.53 J	0.58 J
Chloromethane (Methyl chloride)	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/L	0.65 J	1.0 U	1.0 U	1.1	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane	µg/L	0.22 J	1.0 U	1.0 U	0.36 J	1.0 U	0.27 J	0.72 J	0.37 J	0.30 J	0.31 J
Ethylbenzene	µg/L	1.0 U	1.0 U	1.0 U	0.27 J	1.0 U	1.0 U	0.39 J	0.24 J	1.0 U	1.0 U
Isopropyl benzene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.36 J	1.0 U	1.0 U	1.0 U
m&p-Xylenes	µg/L	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.59 J	1.0 U	1.0 U	1.0 U
Methylene chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
o-Xylene	µg/L	-	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	0.43 J	0.44 J	0.44 J	1.0 U	1.0 U
Toluene	µg/L	1.0 U	0.87 J	1.0	13	3.5	4.8	4.7	2.3	1.6	1.5
trans-1,2-Dichloroethene	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	µg/L	**0.61 J[a]**	1.0 U	1.0 U	0.30 J	1.0 U	1.0 U	1.0 U	1.0 U	**0.56 J[a]**	**0.56 J[a]**
Vinyl chloride	µg/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes (total)	µg/L	2.0 U	2.0 U	2.0 U	0.69 J	2.0 U	2.0 U	0.71 J	0.50 J	2.0 U	2.0 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-40**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**	**VAS-42**
Sample ID:		**GW-38443-090718-JC-155**	**GW-38443-090718-JC-156**	**GW-38443-090718-JC-157**	**GW-38443-091018-JC-158**	**GW-38443-091018-JC-159**	**GW-38443-081518-JC-120**	**GW-38443-081618-JC-121**	**GW-38443-081618-JC-122**	**GW-38443-081618-JC-123**	**GW-38443-081718-JC-124**
Sample Date:		**9/7/2018**	**9/7/2018**	**9/7/2018**	**9/10/2018**	**9/10/2018**	**8/15/2018**	**8/16/2018**	**8/16/2018**	**8/16/2018**	**8/17/2018**
Sample Depth:		**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**										
Volatiles											
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.28 J	0.18 J	0.20 J	0.18 J	0.25 J	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 UJ	0.26 U	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.89 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.39 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.42 J
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	**6.6[ab]**	**2.8[a]**	**1.1[a]**	**0.83 J[a]**	**0.90 J[a]**	0.13 U	0.13 U	0.13 U	0.13 U	0.31 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	0.16 U	0.16 U	0.16 U	0.16 U	0.28 J	1.7	3.4	8.0	5.2	5.4
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.14 J	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.27 J	0.080 U	0.14 J	0.080 U	0.080 U	0.080 U	0.22 J	0.080 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Tetrachloroethene	µg/L	0.15 U	0.17 J	0.29 J	0.22 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.16 J	0.21 J	0.84 J	0.45 J	2.0	0.18 J	0.33 J	1.4	0.62 J	0.33 J
trans-1,2-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.35 J	1.0	0.42 J	0.35 J
Trichloroethene	µg/L	0.10 U	0.10 U	0.10 U	0.20 J	**1.7[a]**	**2.2[ab]**	**3.1[ab]**	**9.0[ab]**	**2.8[ab]**	**2.1[a]**
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.27 J	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.22 J	0.15 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Analytical Results for Groundwater Samples
Outside OU1 Upper Aquifer - VOCs
South Dayton Dump and Landfill Site
Moraine, Ohio

Aquifer:		Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer	Upper Aquifer
Sample Location:		**VAS-42**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**	**VAS-43**
Sample ID:		**GW-38443-081718-JC-125**	**GW-38443-082318-JC-134**	**GW-38443-082318-JC-135**	**GW-38443-082318-JC-136**	**GW-38443-082318-JC-137**	**GW-38443-082418-JC-138**	**GW-38443-082418-JC-139**	**GW-38443-082418-JC-140**
Sample Date:		**8/17/2018**	**8/23/2018**	**8/23/2018**	**8/23/2018**	**8/23/2018**	**8/24/2018**	**8/24/2018**	**8/24/2018**
Sample Depth:		**50-60 ft BGS**	**25-30 ft BGS**	**25-30 ft BGS**	**30-35 ft BGS**	**35-40 ft BGS**	**40-45 ft BGS**	**45-50 ft BGS**	**50-60 ft BGS**
		Duplicate		**Duplicate**					
Sampling Company:		**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**	**CRA/GHD**
Parameters	**Units**								
Volatiles									
1,1,1-Trichloroethane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,1,2,2-Tetrachloroethane	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,1-Dichloroethane	µg/L	0.23 J	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
1,1-Dichloroethene	µg/L	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2,4-Trichlorobenzene	µg/L	0.26 U	0.26 UJ	0.26 UJ	0.26 UJ	0.26 UJ	0.26 U	0.26 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/L	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U	0.0087 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
2-Hexanone	µg/L	0.54 U	0.54 U	0.54 U	0.54 U	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/L	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
Acetone	µg/L	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	5.4 U	150 U	5.4 U
Benzene	µg/L	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
Bromodichloromethane	µg/L	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Carbon disulfide	µg/L	0.45 J	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
Chloroethane	µg/L	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Chloroform (Trichloromethane)	µg/L	0.37 J	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.33 J	0.58 J
Chloromethane (Methyl chloride)	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
cis-1,2-Dichloroethene	µg/L	5.8	0.16 U	0.16 U	0.29 J	0.53 J	1.6	5.1	6.1
Cyclohexane	µg/L	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
Ethylbenzene	µg/L	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.15 J	0.11 U
Isopropyl benzene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
m&p-Xylenes	µg/L	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.17 J	0.080 U
Methyl cyclohexane	µg/L	0.33 U	0.33 U	0.33 U	0.35 J	0.33 U	0.33 U	0.33 U	0.33 U
Methylene chloride	µg/L	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U	2.6 U
o-Xylene	µg/L	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
Tetrachloroethene	µg/L	0.15 U	0.15 U	0.15 U	0.16 J	0.23 J	0.15 U	0.15 U	0.15 U
Toluene	µg/L	0.34 J	2.5	3.4	2.3	4.0	1.8	0.69 J	2.3
trans-1,2-Dichloroethene	µg/L	0.38 J	0.19 U	0.19 U	0.19 U	0.19 U	0.35 J	0.72 J	0.49 J
Trichloroethene	µg/L	**2.1[a]**	**1.6[a]**	**1.6[a]**	**2.2[ab]**	**2.1[a]**	**5.4[ab]**	**24[ab]**	**17[ab]**
Vinyl chloride	µg/L	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
Xylenes (total)	µg/L	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.17 J	0.15 U

Notes:

B - Value is real, but above instrument detection limit and below contract-required detection limit (Inorganics).

B - Compound is found in the associated blank as well as in the sample (Organics).

J - Estimated concentration.
P - Indicates there is a greater than 25% difference for detected concentrations between two GC columns. The lower of the two values is reported.
R - Rejected.
U - Non-detect at associated value.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Appendix E
Analytical Results – OU1 Soil/fill Samples

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:								on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)
Sample Location:								BH102-17	BH103-17	BH104-17	BH158-17	SS-37	SS-38	SS-39	SS-39	SS-40
Sample ID:								S-38443-120717-JC-004	S-38443-120717-JC-002	S-38443-120717-JC-003	S-38443-120617-JC-001	SS-38443-112018-JC-037	SS-38443-112018-JC-038	S-38443-110117-BW-013	S-38443-110117-BW-014	SS-38443-112018-JC-040
Sample Date:								12/7/2017	12/7/2017	12/7/2017	12/6/2017	11/20/2018	11/20/2018	11/1/2017	11/1/2017	11/20/2018
Sample Depth:								4.5-6.5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate	0-2 ft BGS
Parameters	**Units**	**Risk-Based SSL a**	**MCL-Based SSL b**	**Samples**	**Detects**	**Min Detect**	**Max Detect**									
Volatiles																
1,1,1-Trichloroethane	µg/kg	280	70	74	2	1	94[b]	0.20 U	R	0.21 U	-	0.75 U	0.76 U	0.39 U	0.31 U	0.93 U
1,4-Dichlorobenzene	µg/kg	0.46	72	64	1	23[a]	23[a]	0.31 U	R	0.32 U	-	0.80 U	0.82 U	0.59 U	0.47 U	1.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	120	-	73	26	2.5	38	**2.9 J**	R	**2.5 J**	-	3.2 U	3.3 U	2.1 U	1.7 U	4.0 U
Acetone	µg/kg	290	-	73	22	13	250	14 U	R	11 U	-	19 U	20 U	5.1 U	4.1 U	24 U
Benzene	µg/kg	0.23	2.6	73	3	0.33[a]	0.9[a]	0.28 U	R	0.29 U	-	0.64 U	0.65 U	0.54 U	0.43 U	0.79 U
Carbon disulfide	µg/kg	24	-	73	1	2.8	2.8	0.19 U	R	0.19 U	-	1.1 U	1.1 U	0.35 U	0.28 U	1.3 U
cis-1,2-Dichloroethene	µg/kg	1.1	21	73	2	0.47	5[a]	0.25 U	R	0.25 U	-	0.59 U	0.61 U	0.47 U	0.38 U	0.74 U
Cyclohexane	µg/kg	1300	-	74	6	0.43	210	0.19 U	R	0.19 U	-	1.3 U	1.3 U	0.35 U	0.28 U	1.6 U
Ethylbenzene	µg/kg	1.7	780	71	4	0.38	380[a]	0.24 U	R	0.24 U	-	0.95 U	0.98 U	0.45 U	0.37 U	1.2 U
Isopropyl benzene	µg/kg	74	-	71	1	140[a]	140[a]	0.18 U	R	0.18 U	-	0.76 U	0.78 U	0.34 U	0.27 U	0.94 U
Methyl cyclohexane	µg/kg	-	-	74	9	0.55	410	0.20 U	R	0.21 U	-	1.1 U	1.1 U	0.39 U	0.31 U	1.4 U
Methylene chloride	µg/kg	2.7	1.3	74	1	500[ab]	500[ab]	0.91 U	R	0.94 U	-	11 U	11 U	0.40 U	0.32 U	14 U
Tetrachloroethene	µg/kg	1.8	2.3	71	6	0.34	72[ab]	0.33 U	R	0.33 U	-	0.66 U	0.68 U	0.62 U	0.50 U	0.83 U
Toluene	µg/kg	76	690	71	10	0.92	430[a]	0.30 U	R	0.31 U	-	0.70 U	0.72 U	0.57 U	0.46 U	0.88 U
Xylenes (total)	µg/kg	19	9900	71	5	0.68	2800[a]	0.35 U	R	0.36 U	-	1.4 U	1.5 U	0.67 U	0.54 U	1.8 U
Semi-Volatiles																
2-Methylnaphthalene	µg/kg	19	-	75	58	5.9	6300[a]	**26**	**38**	**11**	-	**25 J**	**12 J**	**73**	**58**	**67 J**
Acenaphthene	µg/kg	550	-	75	36	4.4	54000[a]	**71**	**120**	**14**	-	14 U	3.3 U	**54**	**52**	**150**
Acenaphthylene	µg/kg	-	-	75	43	4.5	1100	**120**	**9.8**	**17**	-	**320**	**42**	**35**	**39**	**67 J**
Acetophenone	µg/kg	58	-	75	7	10	95[a]	11 U	**10 J**	11 U	-	55 U	13 U	13 U	23 U	50 U
Anthracene	µg/kg	5800	-	75	57	4.2	120000[a]	**130**	**140**	**53**	-	**540**	**25**	**120**	**120**	**380**
Benzaldehyde	µg/kg	4.1	-	75	7	16[a]	120[a]	14 U	13 U	14 U	-	110 U	26 U	**16 J**	30 U	110 U
Benzo(a)anthracene	µg/kg	11	-	75	67	8	260000[a]	**630**	**450**	**210**	-	**3400**	**210**	**510**	**590**	**2500**
Benzo(a)pyrene	µg/kg	29	240	75	71	5.1	270000[ab]	**570**	**360**	**190**	-	**3100**	**190**	**460**	**510**	**2400**
Benzo(b)fluoranthene	µg/kg	300	-	75	71	8.5	330000[a]	**980**	**540**	**270**	-	**3900**	**280**	**630**	**830**	**3400**
Benzo(g,h,i)perylene	µg/kg	-	-	75	64	6.3	120000	**170**	**120**	**71**	-	**2400**	**160**	**280**	**280**	**2100**
Benzo(k)fluoranthene	µg/kg	2900	-	75	54	7.1	130000[a]	**360**	**280**	**110**	-	**1500**	**120**	**280**	**300**	**1400**
Biphenyl (1,1-Biphenyl)	µg/kg	0.87	-	75	11	8.1[a]	260[a]	**8.1 J**	**13 J**	4.2 U	-	85 U	19 U	**11 J**	**10 J**	78 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	1400	75	20	60	4700[ab]	**96**	**110**	37 U	-	**320 J**	**78 J**	67 U	125 U	**330**
Caprolactam	µg/kg	250	-	75	1	320[a]	320[a]	43 U	41 U	44 U	-	370 U	85 U	51 U	**320 J**	340 U
Carbazole	µg/kg	-	-	75	29	22	92000	**43 J**	**65**	32 U	-	**130 J**	22 U	**80**	**70 J**	**330**
Chrysene	µg/kg	9000	-	75	66	8.3	250000[a]	**610**	**450**	**220**	-	**3200**	**210**	**560**	**660**	**2800**
Dibenz(a,h)anthracene	µg/kg	96	-	75	37	6.2	39000[a]	**61**	**41**	**29**	-	**570**	**30**	**59**	**74**	**530**
Dibenzofuran	µg/kg	15	-	75	31	14	30000[a]	**50 J**	**67**	**14 J**	-	65 U	15 U	**45 J**	**40 J**	**67 J**
Di-n-butylphthalate (DBP)	µg/kg	230	-	75	7	25	250[a]	18 U	17 U	18 U	-	110 U	25 U	21 U	38 U	100 U
Fluoranthene	µg/kg	8900	-	75	73	9.8	590000[a]	**1300**	**1000**	**410**	-	**4800**	**270**	**1200**	**1200**	**4700**
Fluorene	µg/kg	540	-	75	42	3.8	62000[a]	**95**	**100**	**19**	-	**62 J**	3.1 U	**51**	**44**	**120**
Hexachlorobenzene	µg/kg	0.12	13	75	1	36[ab]	36[ab]	2.5 U	2.3 U	2.5 U	-	14 U	3.2 U	2.9 U	5.3 U	13 U
Indeno(1,2,3-cd)pyrene	µg/kg	980	-	75	60	5.4	120000[a]	**180**	**110**	**66**	-	**1900**	**130**	**230**	**250**	**1700**
Isophorone	µg/kg	26	-	75	1	110[a]	110[a]	15 U	15 U	16 U	-	60 U	14 U	18 U	33 U	55 U
Naphthalene	µg/kg	0.54	-	75	54	5.3[a]	18000[a]	**32**	**190**	**12**	-	**63 J**	**12 J**	**56**	**42**	**49 J**
Pentachlorophenol	µg/kg	0.057	1.4	75	1	860[ab]	860[ab]	11 U	10 U	11 U	-	290 U	66 U	12 U	23 U	260 U
Phenanthrene	µg/kg	-	-	75	71	4.4	480000	**460 J**	**580**	**170**	-	**1500**	**67**	**620**	**580**	**2000**
Phenol	µg/kg	330	-	75	4	13	27	8.6 U	8.2 U	8.7 U	-	40 U	9.1 U	**13 J**	18 U	37 U
Pyrene	µg/kg	1300	-	75	73	9.1	450000[a]	**1200**	**930**	**430**	-	**5200**	**270**	**940**	**1100**	**4800**
Metals																
Aluminum	mg/kg	3000	-	75	75	1500	17000[a]	**7200**	**6300**	**11000**	-	**7500**	**5000**	**8400 J**	**7700 J**	**4000**
Antimony	mg/kg	0.035	0.27	75	64	0.13[a]	12[ab]	**0.34 J**	**0.35 J**	**2.4 J**	-	**0.21 J**	**0.14 J**	**0.84 J**	**0.60 J**	**0.15 J**
Arsenic	mg/kg	0.0015	0.29	75	75	0.74[ab]	59[ab]	**7.7**	**8.0**	**12**	-	**7.8**	**5.6**	**29**	**21**	**5.4**
Barium	mg/kg	16	82	75	75	9.6	1000[ab]	**94**	**79**	**79**	-	**82**	**42**	**170 J**	**140 J**	**49**
Beryllium	mg/kg	1.9	3.2	75	75	0.099	5.2[ab]	**0.49**	**0.41**	**0.51**	-	**0.43**	**0.26**	**2.5**	**2.2**	**0.27**
Cadmium	mg/kg	0.069	0.38	75	72	0.057	15[ab]	**0.31**	**0.37**	**0.21 J**	-	**2.2**	**0.23**	**0.39**	**0.35**	**0.26**
Calcium	mg/kg	-	-	75	75	1900	410000	**52000**	**83000**	**57000**	-	**45000**	**150000**	**52000**	**65000**	**99000**
Chromium	mg/kg	-	180000	76	76	2.9	280	**12**	**11**	**17**	**13**	**13**	**8.1**	**16**	**15**	**8.6**

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:								on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)	on-site (EU01)
Sample Location:								BH102-17	BH103-17	BH104-17	BH158-17	SS-37	SS-38	SS-39	SS-39	SS-40
Sample ID:								S-38443-120717-JC-004	S-38443-120717-JC-002	S-38443-120717-JC-003	S-38443-120617-JC-001	SS-38443-112018-JC-037	SS-38443-112018-JC-038	S-38443-110117-BW-013	S-38443-110117-BW-014	SS-38443-112018-JC-040
Sample Date:								12/7/2017	12/7/2017	12/7/2017	12/6/2017	11/20/2018	11/20/2018	11/1/2017	11/1/2017	11/20/2018
Sample Depth:								4.5-6.5 ft BGS	3-5 ft BGS	3-5 ft BGS	3-5 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate	0-2 ft BGS
Parameters	**Units**	**Risk-Based SSL a**	**MCL-Based SSL b**	**Samples**	**Detects**	**Min Detect**	**Max Detect**									
Metals (cont'd)																
Chromium III (trivalent)	mg/kg	4000000	-	68	68	2.1	280	**12**	**11**	**16**	**13**	**13**	**8.1**	-	-	**8.3**
Chromium VI (hexavalent)	mg/kg	0.00067	-	68	28	**0.29**[a]	**7.5**[a]	0.56 U	**0.80 J**	**0.34 J**	0.26 U	1.5 U	0.27 U	-	-	**0.31 J**
Cobalt	mg/kg	0.027	-	75	75	**0.77**[a]	**27**[a]	**7.2**	**5.2**	**6.0**	-	**6.8**	**4.5**	**9.6**	**8.0**	**3.9**
Copper	mg/kg	2.8	46	75	75	**3.5**[a]	**960**[ab]	**22 J**	**42 J**	**26 J**	-	**37**	**17**	**44**	**40**	**19**
Iron	mg/kg	35	-	75	75	**1200**[a]	**54000**[a]	**14000**	**13000**	**22000**	-	**16000**	**13000**	**13000**	**12000**	**9200**
Lead	mg/kg	-	14	75	75	1.7	**1000**[b]	**39**	**45**	**61**	-	**29**	**21**	**51 J**	**46 J**	**26**
Lead - coarse fraction	mg/kg	-	-	7	7	17	100	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	8	8	25	310	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	7	7	18	110	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	75	75	340	65000	**18000**	**30000**	**23000**	-	**18000**	**47000**	**19000**	**25000**	**30000**
Manganese	mg/kg	2.8	-	75	75	**31**[a]	**6000**[a]	**310**	**390**	**240**	-	**330**	**450**	**280**	**270**	**320**
Mercury	mg/kg	0.0033	0.1	75	66	**0.022**[a]	**0.61**[ab]	**0.027 J**	**0.077 J**	**0.039 J**	-	**0.097 J**	**0.042 J**	**0.27**	**0.23**	**0.094 J**
Nickel	mg/kg	2.6	-	75	75	**7.4**[a]	**700**[a]	**15**	**12**	**14**	-	**14**	**12**	**25 J**	**22 J**	**11**
Potassium	mg/kg	-	-	75	75	180	2200	**720**	**1000**	**820**	-	**850**	**710**	**1200**	**1100**	**590**
Selenium	mg/kg	0.052	0.26	75	70	**0.15**[a]	**10**[ab]	**0.92 J**	**0.70 J**	**0.88 J**	-	**1.1 J**	**0.60 J**	**3.7**	**3.3**	**0.78 J**
Silver	mg/kg	0.08	-	75	64	0.021	**1.9**[a]	**0.065 J**	**0.077 J**	**0.041 J**	-	**0.053 J**	**0.024 J**	**0.089 J**	**0.083 J**	**0.061 J**
Sodium	mg/kg	-	-	75	63	59	620	**290**	140 U	140 U	-	**72 J**	**120 J**	180 U	160 U	**98 J**
Thallium	mg/kg	0.0014	0.14	75	69	**0.063**[a]	**2.7**[ab]	**0.22 J**	**0.17 J**	**0.31 J**	-	**0.21 J**	**0.20**	**0.82**	**0.62**	**0.14 J**
Vanadium	mg/kg	8.6	-	75	75	5.2	**170**[a]	**19**	**18**	**31**	-	**20**	**16**	**37**	**30**	**13**
Zinc	mg/kg	37	-	75	75	4.9	**1600**[a]	**75**	**95**	**68**	-	**68**	**42**	**77**	**72**	**61**
PCBs																
Aroclor-1242 (PCB-1242)	µg/kg	1.2	-	75	1	**980**[a]	**980**[a]	23 U	440 U	23 U	-	24 U	22 U	28 U	26 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	1.2	-	75	3	**59**[a]	**400**[a]	29 U	550 U	29 U	-	31 U	27 U	24 U	22 UJ	26 U
Aroclor-1254 (PCB-1254)	µg/kg	2	-	75	16	**27**[a]	**16000**[a]	**33 J**	**16000**	28 U	-	29 U	26 U	**33 J**	18 U	25 U
Aroclor-1260 (PCB-1260)	µg/kg	5.5	-	75	2	**24**[a]	**74**[a]	26 U	510 U	27 U	-	28 U	25 U	25 U	**24 J**	24 U
Pesticides																
4,4'-DDD	µg/kg	1.5	-	75	6	**1.8**[a]	**14**[a]	37 U	190 U	19 U	-	1.8 U	1.6 U	46 U	21 U	1.7 U
4,4'-DDE	µg/kg	11	-	75	5	2.1	**28**[a]	13 U	67 U	7.0 U	-	1.9 U	1.6 U	17 U	7.6 U	1.8 U
4,4'-DDT	µg/kg	77	-	75	12	1.2	4.6	16 U	79 U	8.2 U	-	1.4 U	1.2 U	20 U	8.9 U	1.3 U
alpha-Chlordane	µg/kg	-	-	75	8	2.3	36	42 U	210 U	22 U	-	**8.9 J**	1.6 U	53 U	24 U	**20**
beta-BHC	µg/kg	0.15	-	75	2	**1.9**[a]	**4.5**[a]	43 U	220 U	23 U	-	2.2 U	1.9 U	54 U	25 U	2.0 U
Dieldrin	µg/kg	0.071	-	75	1	**2**[a]	**2**[a]	10 U	51 U	5.3 U	-	1.4 U	1.2 U	13 U	5.7 U	1.3 U
Endosulfan I	µg/kg	-	-	75	1	2.1	2.1	14 U	73 U	7.6 U	-	1.5 U	1.3 U	18 U	8.3 U	**2.1 NJ**
Endosulfan II	µg/kg	-	-	75	2	3.7	4.3	20 U	100 U	11 U	-	1.8 U	1.6 U	25 U	11 U	1.7 U
Endrin	µg/kg	9.2	81	75	1	**130**[ab]	**130**[ab]	16 U	**130 NJ**	8.2 U	-	2.4 U	2.1 U	20 U	8.9 U	2.2 U
Endrin aldehyde	µg/kg	-	-	75	3	1.8	2.1	20 UJ	100 U	11 UJ	-	1.6 U	1.4 U	25 U	11 U	**2.1 J**
Endrin ketone	µg/kg	-	-	75	3	1.4	21	12 U	62 U	6.5 U	-	1.1 U	0.97 U	15 U	7.0 U	1.0 U
gamma-BHC (lindane)	µg/kg	0.24	1.2	75	1	**3.8**[ab]	**3.8**[ab]	32 U	160 U	17 U	-	2.2 U	2.0 U	40 U	18 U	2.1 U
gamma-Chlordane	µg/kg	-	-	75	9	1.9	30	17 U	84 U	8.8 U	-	**9.2 J**	1.3 U	21 U	9.6 U	**13**
Heptachlor epoxide	µg/kg	0.028	4.1	75	5	**2**[a]	**130**[ab]	27 U	**130 NJ**	14 U	-	**3.8 J**	1.6 U	34 U	15 U	1.7 U
General Chemistry																
Cyanide (total)	mg/kg	0.0015	2	75	22	**0.13**[a]	**1.3**[a]	0.37 U	0.25 U	0.19 U	-	0.24 U	0.21 U	0.64 U	0.56 U	0.23 U
Fraction organic carbon (FOC)	%	-	-	1	1	0.5	0.5	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	6	6	73.2	94.1	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**
Sample Location:		**SS-41**	**SS-42**	**SS-43**	**SS-44**	**SS-45**	**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**	**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**	**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/20/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0-0.67 ft BGS**	**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**	**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	-	0.68 U	1.0 U	0.93 U	1.2 U	-	-	-	-	-	5.3 U	4.7 U
1,4-Dichlorobenzene	µg/kg	-	0.73 U	1.1 U	1.0 U	1.2 U	-	-	-	-	-	5.3 U	4.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	-	2.9 U	4.4 U	4.0 U	5.0 U	-	-	-	-	-	**4.0 J**	**4.7 J**
Acetone	µg/kg	-	17 U	26 U	24 U	30 U	-	-	-	-	-	21 U	**13 J**
Benzene	µg/kg	-	0.58 U	0.87 U	0.79 U	0.98 U	-	-	-	-	-	5.3 U	4.7 U
Carbon disulfide	µg/kg	-	0.96 U	1.5 U	1.3 U	1.6 U	-	-	-	-	-	5.3 U	4.7 U
cis-1,2-Dichloroethene	µg/kg	-	0.54 U	0.81 U	0.73 U	0.92 U	-	-	-	-	-	5.3 U	4.7 U
Cyclohexane	µg/kg	-	1.1 U	1.7 U	1.6 U	1.9 U	-	-	-	-	-	11 U	9.4 U
Ethylbenzene	µg/kg	-	0.87 U	1.3 U	1.2 U	1.5 U	-	-	-	-	-	5.3 U	4.7 U
Isopropyl benzene	µg/kg	-	0.69 U	1.0 U	0.94 U	1.2 U	-	-	-	-	-	5.3 U	4.7 U
Methyl cyclohexane	µg/kg	-	1.0 U	1.5 U	1.4 U	1.7 U	-	-	-	-	-	11 U	9.4 U
Methylene chloride	µg/kg	-	9.9 U	15 U	14 U	17 U	-	-	-	-	-	5.3 U	4.7 U
Tetrachloroethene	µg/kg	-	0.60 U	0.91 U	0.82 U	1.0 U	-	-	-	-	-	5.3 U	4.7 U
Toluene	µg/kg	-	0.64 U	0.96 U	0.87 U	1.1 U	-	-	-	-	-	5.3 U	4.7 U
Xylenes (total)	µg/kg	-	1.3 U	2.0 U	1.8 U	2.2 U	-	-	-	-	-	11 U	9.4 U
Semi-Volatiles													
2-Methylnaphthalene	µg/kg	-	**36**	**12 J**	**85**	**29 J**	-	-	-	-	-	31 U	16 U
Acenaphthene	µg/kg	-	**12 J**	**43**	13 U	**130**	-	-	-	-	-	**200**	**45**
Acenaphthylene	µg/kg	-	**12 J**	**200**	**120**	**44**	-	-	-	-	-	**41**	**87**
Acetophenone	µg/kg	-	13 U	13 U	48 U	26 U	-	-	-	-	-	470 U	240 U
Anthracene	µg/kg	-	**40**	**140**	**99**	**170 J**	-	-	-	-	-	**570**	**190**
Benzaldehyde	µg/kg	-	27 U	27 U	100 U	54 U	-	-	-	-	-	470 U	240 U
Benzo(a)anthracene	µg/kg	-	**210**	**630**	**320**	**600 J**	-	-	-	-	-	**2000**	**700**
Benzo(a)pyrene	µg/kg	-	**240**	**890**	**450**	**580 J**	-	-	-	-	-	**1500**	**870**
Benzo(b)fluoranthene	µg/kg	-	**400**	**1200**	**630**	**920 J**	-	-	-	-	-	**2000**	**1100**
Benzo(g,h,i)perylene	µg/kg	-	**190**	**650**	**830**	**390**	-	-	-	-	-	**900**	**630**
Benzo(k)fluoranthene	µg/kg	-	**140**	**460**	**280**	**420 J**	-	-	-	-	-	**960**	**400**
Biphenyl (1,1-Biphenyl)	µg/kg	-	20 U	20 U	75 U	40 U	-	-	-	-	-	230 U	120 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	59 U	60 U	220 U	120 U	-	-	-	-	-	**99 J**	120 U
Caprolactam	µg/kg	-	87 U	88 U	330 U	170 U	-	-	-	-	-	1500 U	790 U
Carbazole	µg/kg	-	**26 J**	**84**	84 U	**130**	-	-	-	-	-	**130 J**	**90 J**
Chrysene	µg/kg	-	**260**	**640**	**360**	**670 J**	-	-	-	-	-	**2000**	**820**
Dibenz(a,h)anthracene	µg/kg	-	8.0 U	**160**	30 U	**98**	-	-	-	-	-	31 U	**150**
Dibenzofuran	µg/kg	-	**18 J**	**23 J**	57 U	**62 J**	-	-	-	-	-	**100 J**	120 U
Di-n-butylphthalate (DBP)	µg/kg	-	27 U	26 U	97 U	64 U	-	-	-	-	-	230 U	120 U
Fluoranthene	µg/kg	-	**490**	**1300**	**570**	**1700 J**	-	-	-	-	-	**4600**	**1700**
Fluorene	µg/kg	-	**13 J**	**51**	12 U	**88**	-	-	-	-	-	**250**	**64**
Hexachlorobenzene	µg/kg	-	3.3 U	3.4 U	13 U	6.6 U	-	-	-	-	-	31 U	16 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	**170**	**560**	**220**	**330 J**	-	-	-	-	-	**810**	**540**
Isophorone	µg/kg	-	14 U	14 U	53 U	28 U	-	-	-	-	-	230 U	120 U
Naphthalene	µg/kg	-	**24**	**21**	**60 J**	**33 J**	-	-	-	-	-	31 U	16 U
Pentachlorophenol	µg/kg	-	67 U	68 U	260 U	130 U	-	-	-	-	-	700 U	360 U
Phenanthrene	µg/kg	-	**220**	**470**	**270**	**1100 J**	-	-	-	-	-	**1600**	**850**
Phenol	µg/kg	-	9.3 U	9.4 U	35 U	19 U	-	-	-	-	-	230 U	120 U
Pyrene	µg/kg	-	**420**	**1300**	**620**	**1300**	-	-	-	-	-	**3800**	**1400**
Metals													
Aluminum	mg/kg	-	**7500**	**5300**	**3000**	**4600**	-	-	-	-	-	**5370**	**5270**
Antimony	mg/kg	-	**0.19 J**	**0.16 J**	**0.18 J**	**0.20 J**	-	-	-	-	-	7.0 UJ	7.2 UJ
Arsenic	mg/kg	-	**9.3**	**6.7**	**3.6**	**8.6**	-	-	-	-	-	**6.5 J**	**5.5**
Barium	mg/kg	-	**66 J**	**57 J**	**44 J**	**45 J**	-	-	-	-	-	**71.7**	**53.8**
Beryllium	mg/kg	-	**0.45 J**	**0.32 J**	**0.26 J**	**0.39 J**	-	-	-	-	-	**0.22 J**	**0.24 J**
Cadmium	mg/kg	-	**0.23**	**0.24**	**1.3**	**0.25**	-	-	-	-	-	**0.39 J**	**0.29 J**
Calcium	mg/kg	-	**65000**	**61000**	**190000**	**190000**	-	-	-	-	-	**108000**	**91200 J**
Chromium	mg/kg	-	**14**	**8.5**	**6.8**	**8.7**	-	-	-	-	-	**11.9 J**	**7.8**

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**	**on-site (EU01)**
Sample Location:		**SS-41**	**SS-42**	**SS-43**	**SS-44**	**SS-45**	**SS-122**	**SS-124**	**SS-153-AS**	**SS-154-AS**	**SS-155-AS**	**TT-14**	**TT-16**
Sample ID:		**SS-38443-112018-JC-041**	**SS-38443-112718-AS-042**	**SS-38443-112718-AS-043**	**SS-38443-112718-AS-044**	**SS-38443-112718-AS-045**	**SS-38443-112018-JC-122**	**SS-38443-112718-AS-124**	**SS-38443-112018-JC-153**	**SS-38443-112018-JC-154**	**SS-38443-112718-JC-155**	**S-38443-092508-KMV-015**	**S-38443-093008-KMV-033**
Sample Date:		**11/20/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/27/2018**	**11/20/2018**	**11/27/2018**	**11/20/2018**	**11/20/2018**	**11/27/2018**	**9/25/2008**	**9/30/2008**
Sample Depth:		**0-2 ft BGS**	**0-0.67 ft BGS**	**0.17-1 ft BGS**	**0.08-1 ft BGS**	**0.17-1.5 ft BGS**	**0-2 ft BGS**	**0.17-1.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.17-1.5 ft BGS**	**3 ft BGS**	**2 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Chromium III (trivalent)	mg/kg	-	**14**	**7.9**	**6.8**	**8.7**	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	0.28 U	**0.56 J**	0.27 U	0.28 U	-	-	-	-	-	-	-
Cobalt	mg/kg	-	**5.9**	**4.6**	**2.7**	**4.7**	-	-	-	-	-	**4.2 J**	**4.8 J**
Copper	mg/kg	-	**30 J**	**14 J**	**16 J**	**17 J**	-	-	-	-	-	**27.6**	**12.6**
Iron	mg/kg	-	**15000**	**12000**	**7000**	**11000**	-	-	-	-	-	**11700**	**11200**
Lead	mg/kg	-	**25 J**	**30 J**	**39 J**	**19 J**	-	-	-	-	-	**40.8**	**18.4 J**
Lead - coarse fraction	mg/kg	-	**24**	-	**62**	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	**48**	-	**100**	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	**26**	-	**70**	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	**30000**	**23000**	**29000**	**36000**	-	-	-	-	-	**34900**	**44300**
Manganese	mg/kg	-	**530 J**	**300 J**	**320 J**	**390 J**	-	-	-	-	-	**295**	**624 J**
Mercury	mg/kg	-	**0.050 J**	**0.071 J**	**0.13**	**0.078 J**	-	-	-	-	-	**0.094 J**	**0.035 J**
Nickel	mg/kg	-	**15 J**	**11 J**	**7.7 J**	**16 J**	-	-	-	-	-	**12.9**	**10.7**
Potassium	mg/kg	-	**740 J**	**720 J**	**450 J**	**660 J**	-	-	-	-	-	**832**	**960 J**
Selenium	mg/kg	-	**0.86 J**	**0.62 J**	**0.60 J**	**0.81 J**	-	-	-	-	-	29.3 U	30.0 U
Silver	mg/kg	-	**0.048 J**	**0.035 J**	**0.028 J**	**0.025 J**	-	-	-	-	-	1.2 U	1.2 U
Sodium	mg/kg	-	**90 J**	**79 J**	**120 J**	**150 J**	-	-	-	-	-	586 U	**162 J**
Thallium	mg/kg	-	**0.20**	**0.15 J**	**0.12 J**	**0.19**	-	-	-	-	-	**0.17**	0.14 U
Vanadium	mg/kg	-	**22**	**13**	**12**	**16**	-	-	-	-	-	**15.1**	**14.5 J**
Zinc	mg/kg	-	**58 J**	**57 J**	**48 J**	**46 J**	-	-	-	-	-	**98.7 J**	**42.4 J**
PCBs													
Aroclor-1242 (PCB-1242)	µg/kg	-	22 U	22 U	21 U	22 U	-	-	-	-	-	39 U	40 UJ
Aroclor-1248 (PCB-1248)	µg/kg	-	28 U	28 U	26 U	28 U	-	-	-	-	-	39 U	40 UJ
Aroclor-1254 (PCB-1254)	µg/kg	-	**180**	27 U	25 U	26 U	-	-	-	-	-	**130**	40 UJ
Aroclor-1260 (PCB-1260)	µg/kg	-	25 U	26 U	24 U	25 U	-	-	-	-	-	39 U	40 UJ
Pesticides													
4,4'-DDD	µg/kg	-	1.8 U	1.7 U	1.6 U	8.3 U	-	-	-	-	-	40 U	100 UJ
4,4'-DDE	µg/kg	-	1.8 U	1.8 U	1.7 U	8.4 U	-	-	-	-	-	**12 J**	100 U
4,4'-DDT	µg/kg	-	1.3 U	1.3 U	**1.2 NJ**	6.3 U	-	-	-	-	-	40 UJ	100 UJ
alpha-Chlordane	µg/kg	-	1.8 U	**3.1 J**	1.6 U	**32**	-	-	-	-	-	40 U	100 U
beta-BHC	µg/kg	-	2.0 U	2.0 U	1.9 U	9.6 U	-	-	-	-	-	40 U	100 U
Dieldrin	µg/kg	-	1.3 U	1.3 U	1.2 U	6.1 U	-	-	-	-	-	40 U	100 U
Endosulfan I	µg/kg	-	1.4 U	1.4 U	1.3 U	6.7 U	-	-	-	-	-	40 U	100 U
Endosulfan II	µg/kg	-	1.8 U	1.7 U	1.6 U	8.3 U	-	-	-	-	-	40 U	100 U
Endrin	µg/kg	-	2.2 U	2.2 U	2.1 U	11 U	-	-	-	-	-	40 U	100 U
Endrin aldehyde	µg/kg	-	1.5 U	1.5 U	1.4 U	7.3 U	-	-	-	-	-	40 U	100 U
Endrin ketone	µg/kg	-	1.1 U	1.0 U	0.98 U	5.0 U	-	-	-	-	-	40 U	100 U
gamma-BHC (lindane)	µg/kg	-	2.1 U	2.1 U	2.0 U	10 U	-	-	-	-	-	40 U	100 U
gamma-Chlordane	µg/kg	-	1.5 U	**1.9 J**	1.4 U	**27 J**	-	-	-	-	-	**23 J**	100 U
Heptachlor epoxide	µg/kg	-	1.7 U	1.7 U	1.6 U	8.0 U	-	-	-	-	-	40 U	100 U
General Chemistry													
Cyanide (total)	mg/kg	-	0.21 U	0.24 U	0.22 U	0.24 U	-	-	-	-	-	**0.13 J**	0.60 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	**85.4**	**83.3**

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)	on-site (EU02)
Sample Location:		**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**	**SS-16**	**SS-17**	**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	0.85 U	0.76 U	0.87 U	0.82 U	0.88 U	0.88 U	0.76 U	0.78 U	-	-	-	-
1,4-Dichlorobenzene	µg/kg	0.91 U	0.82 U	0.94 UJ	0.88 U	0.95 U	0.94 U	0.82 U	0.84 U	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	3.7 U	3.3 U	**7.2 J**	3.5 U	3.8 U	3.8 U	3.3 U	3.4 U	-	-	-	-
Acetone	µg/kg	22 U	**23**	22 U	21 U	23 U	22 U	20 U	20 U	-	-	-	-
Benzene	µg/kg	0.72 U	0.65 U	0.74 U	0.69 U	0.75 U	0.74 U	0.65 U	0.67 U	-	-	-	-
Carbon disulfide	µg/kg	1.2 U	1.1 U	1.2 U	1.2 U	1.3 U	1.2 U	1.1 U	1.1 U	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	0.67 U	0.60 U	0.69 U	0.65 U	0.70 U	0.69 U	0.61 U	0.62 U	-	-	-	-
Cyclohexane	µg/kg	1.4 U	1.3 U	1.5 U	1.4 U	1.5 U	1.5 U	1.3 U	1.3 U	-	-	-	-
Ethylbenzene	µg/kg	1.1 U	0.97 U	1.1 U	1.0 U	1.1 U	1.1 U	0.98 U	1.0 U	-	-	-	-
Isopropyl benzene	µg/kg	0.86 U	0.77 U	0.89 U	0.83 U	0.90 U	0.89 U	0.78 U	0.79 U	-	-	-	-
Methyl cyclohexane	µg/kg	1.3 U	1.1 U	1.3 U	1.2 U	1.3 U	1.3 U	1.1 U	1.2 U	-	-	-	-
Methylene chloride	µg/kg	12 U	11 U	13 U	12 U	13 U	13 U	11 U	11 U	-	-	-	-
Tetrachloroethene	µg/kg	0.75 U	0.68 U	0.78 U	0.73 U	0.79 U	0.78 U	0.68 U	0.70 U	-	-	-	-
Toluene	µg/kg	0.80 U	**1.1 J**	0.82 U	0.77 U	0.83 U	0.82 U	0.72 U	0.74 U	-	-	-	-
Xylenes (total)	µg/kg	1.6 U	1.5 U	1.7 U	1.6 U	1.7 U	1.7 U	1.5 U	1.5 U	-	-	-	-
Semi-Volatiles													
2-Methylnaphthalene	µg/kg	2.3 U	2.1 U	**23**	2.3 U	2.5 U	2.3 U	2.3 U	2.4 U	-	-	-	-
Acenaphthene	µg/kg	3.3 U	3.1 U	3.3 U	3.4 U	3.7 U	3.3 U	3.4 U	3.5 U	-	-	-	-
Acenaphthylene	µg/kg	4.6 U	4.3 U	4.6 U	4.8 U	5.1 U	4.7 U	4.8 U	4.9 U	-	-	-	-
Acetophenone	µg/kg	13 U	12 U	13 U	13 U	14 U	13 U	13 U	14 U	-	-	-	-
Anthracene	µg/kg	**4.2 J**	2.6 U	2.7 U	2.9 U	3.1 U	2.8 U	2.9 U	3.0 U	-	-	-	-
Benzaldehyde	µg/kg	27 U	25 U	26 U	27 U	29 U	27 U	27 U	28 U	-	-	-	-
Benzo(a)anthracene	µg/kg	**24**	3.7 U	3.9 U	4.1 U	**11 J**	**9.6 J**	**17 J**	4.2 U	-	-	-	-
Benzo(a)pyrene	µg/kg	**29**	**16**	**31**	11 U	**15 J**	**12 J**	**22**	11 U	-	-	-	-
Benzo(b)fluoranthene	µg/kg	**46**	7.0 U	**40**	7.7 U	**23**	**18**	**28**	**8.8 J**	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	8.2 U	7.6 U	**33**	8.5 U	**15 J**	**9.6 J**	**8.7 J**	8.7 U	-	-	-	-
Benzo(k)fluoranthene	µg/kg	**17**	7.4 U	7.9 U	8.3 U	8.9 U	8.1 U	**11 J**	8.5 U	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	20 U	18 U	19 U	20 U	22 U	20 U	20 U	21 U	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	59 U	55 U	58 U	61 U	65 U	60 U	61 U	63 U	-	-	-	-
Caprolactam	µg/kg	87 U	80 U	85 U	89 U	96 U	88 U	89 U	92 U	-	-	-	-
Carbazole	µg/kg	22 U	20 U	22 U	23 U	24 U	22 U	23 U	23 U	-	-	-	-
Chrysene	µg/kg	**28**	1.6 U	1.7 U	1.8 U	**17 J**	**17 J**	**20**	1.8 U	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	8.0 U	7.4 U	7.9 U	8.3 U	8.9 U	8.1 U	8.2 U	8.5 U	-	-	-	-
Dibenzofuran	µg/kg	15 U	14 U	15 U	15 U	17 U	15 U	15 U	16 U	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	25 U	24 U	25 U	26 U	28 U	26 U	26 U	27 U	-	-	-	-
Fluoranthene	µg/kg	**47**	**13 J**	**28**	**9.8 J**	**26**	**22**	**40**	**11 J**	-	-	-	-
Fluorene	µg/kg	3.2 U	2.9 U	3.1 U	3.3 U	3.5 U	3.2 U	3.3 U	3.4 U	-	-	-	-
Hexachlorobenzene	µg/kg	3.3 U	3.1 UJ	3.2 UJ	3.4 U	3.7 U	3.3 U	3.4 U	3.5 U	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	8.5 U	7.9 U	**29**	8.8 U	9.4 U	8.6 U	**8.8 J**	9.0 U	-	-	-	-
Isophorone	µg/kg	14 U	13 U	14 U	14 U	15 U	14 U	14 U	15 U	-	-	-	-
Naphthalene	µg/kg	2.8 U	2.6 U	**17**	2.9 U	3.1 U	2.8 U	2.9 U	3.0 U	-	-	-	-
Pentachlorophenol	µg/kg	67 U	62 U	66 U	69 U	74 U	68 U	69 U	71 U	-	-	-	-
Phenanthrene	µg/kg	**29**	2.4 U	2.5 U	2.7 U	**13 J**	**8.9 J**	**21**	**4.4 J**	-	-	-	-
Phenol	µg/kg	9.2 U	8.6 U	9.1 U	9.5 U	10 U	9.3 U	9.5 U	**14 J**	-	-	-	-
Pyrene	µg/kg	**38**	**16**	**34**	**11 J**	**22**	**18**	**34**	**9.1 J**	-	-	-	-
Metals													
Aluminum	mg/kg	**9400**	**8500**	**14000**	**12000**	**17000**	**14000**	**14000**	**13000**	-	-	-	-
Antimony	mg/kg	**0.56**	**0.18 J**	**0.38**	**1.5**	**0.79**	**0.99**	**0.27 J**	**0.36 J**	-	-	-	-
Arsenic	mg/kg	**7.8**	**7.2**	**10**	**10**	**12**	**8.3**	**14**	**10**	-	-	-	-
Barium	mg/kg	**94**	**72**	**100**	**170**	**120**	**180**	**95**	**90**	-	-	-	-
Beryllium	mg/kg	**0.48**	**0.42**	**0.71**	**0.51**	**0.67**	**0.51**	**0.59**	**0.53**	-	-	-	-
Cadmium	mg/kg	**0.26**	**0.21**	**0.48**	**0.24**	**0.35**	**0.19 J**	**0.20 J**	**0.33**	-	-	-	-
Calcium	mg/kg	**47000**	**56000**	**29000**	**12000**	**15000**	**32000**	**3600**	**11000**	-	-	-	-
Chromium	mg/kg	**16**	**13**	**20**	**18**	**24**	**19**	**19**	**19**	-	-	-	-

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**	**on-site (EU02)**
Sample Location:		**BH98-18**	**BH99-18**	**BH100-18**	**SS-14**	**SS-15**	**SS-16**	**SS-17**	**SS-18**	**SS-148**	**SS-152**	**SS-156-AS**	**SS-157-AS**
Sample ID:		**S-38443-121418-JC-150**	**S-38443-121418-JC-151**	**S-38443-121418-JC-152**	**SS-38443-112018-JC-014**	**SS-38443-112018-JC-015**	**SS-38443-112018-JC-016**	**SS-38443-112018-JC-017**	**SS-38443-112018-JC-018**	**SS-38443-112018-JC-148**	**SS-38443-112018-JC-152**	**SS-38443-112018-JC-156**	**SS-38443-112018-JC-157**
Sample Date:		**12/14/2018**	**12/14/2018**	**12/14/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**	**11/20/2018**
Sample Depth:		**2-5.5 ft BGS**	**6-9.5 ft BGS**	**4-7.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Chromium III (trivalent)	mg/kg	**16**	**13**	**20**	**18**	**24**	**19**	**19**	**19**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	**0.29 J**	0.26 U	0.28 U	**0.29 J**	0.62 U	0.56 U	0.57 U	0.59 U	-	-	-	-
Cobalt	mg/kg	**6.5**	**5.6**	**8.8**	**8.2**	**8.2**	**7.5**	**8.4**	**7.9**	-	-	-	-
Copper	mg/kg	**15**	**12**	**31**	**19**	**26**	**16**	**20**	**21**	-	-	-	-
Iron	mg/kg	**17000**	**15000**	**22000**	**22000**	**26000**	**20000**	**25000**	**22000**	-	-	-	-
Lead	mg/kg	**20**	**14**	**46**	**19**	**30**	**15**	**16**	**24**	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	**17 J**	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	**25**	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	**18**	-	-	-	-	-	-	-
Magnesium	mg/kg	**27000**	**33000**	**11000**	**7200**	**8500**	**17000**	**3300**	**7100**	-	-	-	-
Manganese	mg/kg	**610**	**450**	**510**	**730**	**670**	**660**	**580**	**590**	-	-	-	-
Mercury	mg/kg	**0.025 J**	**0.031 J**	**0.045 J**	**0.041 J**	**0.067 J**	**0.037 J**	**0.035 J**	**0.051 J**	-	-	-	-
Nickel	mg/kg	**15**	**13**	**19**	**19**	**23**	**20**	**19**	**19**	-	-	-	-
Potassium	mg/kg	**850**	**920**	**1300**	**1200**	**1900**	**1100**	**1300**	**1500**	-	-	-	-
Selenium	mg/kg	**0.27 J**	**0.16 J**	**0.43 J**	**1.1**	**1.6**	**1.2**	**1.2**	**1.3**	-	-	-	-
Silver	mg/kg	**0.052 J**	**0.044 J**	**0.10 J**	**0.055 J**	**0.12 J**	**0.043 J**	**0.038 J**	**0.083 J**	-	-	-	-
Sodium	mg/kg	**85 J**	**110 J**	**67 J**	57 U	60 U	**64 J**	58 U	57 U	-	-	-	-
Thallium	mg/kg	**0.071 J**	**0.071 J**	**0.10**	**0.20 J**	**0.26**	**0.21**	**0.24**	**0.23**	-	-	-	-
Vanadium	mg/kg	**27**	**25**	**35**	**33**	**43**	**34**	**35**	**35**	-	-	-	-
Zinc	mg/kg	**57**	**44**	**120**	**81**	**110**	**55**	**58**	**100**	-	-	-	-
PCBs													
Aroclor-1242 (PCB-1242)	µg/kg	21 U	21 U	22 U	23 U	24 U	22 U	22 U	22 U	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	27 U	26 U	28 U	29 U	30 U	28 U	28 U	28 U	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	26 U	25 U	27 U	28 U	29 U	26 U	27 U	27 U	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	25 U	24 U	26 U	26 U	28 U	25 U	26 U	26 U	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	1.7 U	1.6 U	1.7 U	1.7 U	1.9 U	1.8 U	8.6 U	1.8 U	-	-	-	-
4,4'-DDE	µg/kg	1.8 U	1.6 U	1.8 U	1.8 U	2.0 U	1.8 U	8.8 U	1.9 U	-	-	-	-
4,4'-DDT	µg/kg	1.3 U	**1.5 J**	1.3 U	1.3 U	**3.5 J**	1.3 U	6.6 U	1.4 U	-	-	-	-
alpha-Chlordane	µg/kg	1.8 U	1.6 U	1.7 U	1.8 U	1.9 U	1.8 U	8.7 U	1.9 U	-	-	-	-
beta-BHC	µg/kg	2.0 U	1.9 U	2.0 U	2.0 U	2.2 U	2.0 U	10 U	2.2 U	-	-	-	-
Dieldrin	µg/kg	1.3 U	1.2 U	1.3 U	1.3 U	1.4 U	1.3 U	6.4 U	1.4 U	-	-	-	-
Endosulfan I	µg/kg	1.4 U	1.3 U	1.4 U	1.4 U	1.6 U	1.4 U	7.0 U	1.5 U	-	-	-	-
Endosulfan II	µg/kg	1.7 U	1.6 U	1.7 U	1.7 U	1.9 U	1.8 U	8.6 U	1.8 U	-	-	-	-
Endrin	µg/kg	2.2 U	2.1 U	2.2 U	2.2 U	2.5 U	2.2 U	11 U	2.4 U	-	-	-	-
Endrin aldehyde	µg/kg	1.5 U	1.4 U	1.5 U	1.5 U	1.7 U	1.5 U	7.6 U	1.6 U	-	-	-	-
Endrin ketone	µg/kg	1.0 U	0.96 U	1.0 U	1.0 U	1.2 U	1.1 U	5.2 U	1.1 U	-	-	-	-
gamma-BHC (lindane)	µg/kg	2.1 U	1.9 U	2.1 U	2.1 U	2.3 U	2.1 U	10 U	2.2 U	-	-	-	-
gamma-Chlordane	µg/kg	1.4 U	1.3 U	1.4 U	1.4 U	1.6 U	1.5 U	7.1 U	1.5 U	-	-	-	-
Heptachlor epoxide	µg/kg	1.7 U	1.6 U	1.7 U	1.7 U	1.9 U	1.7 U	8.4 U	1.8 U	-	-	-	-
General Chemistry													
Cyanide (total)	mg/kg	0.24 U	0.21 U	0.21 U	0.23 U	0.26 U	0.21 U	0.22 U	0.24 U	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)
Sample Location:		**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**	**BH155-18**	**BH156-18**	**BH157-18**	**GP07-18**	**SS-146**	**SS-147**	**SS-149**
Sample ID:		**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**	**S-38443-052918-JC-095**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS** Duplicate	**13-15 ft BGS**	**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	0.90 U	0.87 U	0.66 U	0.94 U	-	0.91 U	0.25 U	0.20 U	26 U	0.73 U	0.71 U	0.72 U
1,4-Dichlorobenzene	µg/kg	R	0.93 U	0.71 U	1.0 U	-	0.97 U	0.38 U	0.31 U	25 U	0.78 U	0.77 U	0.77 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**4.3 J**	**11 J**	2.9 U	**7.8 J**	-	**5.1 J**	1.4 U	1.1 U	46 U	**5.4 J**	**8.7 J**	**7.2 J**
Acetone	µg/kg	23 U	22 U	17 U	**27 J**	-	23 U	7.9 U	2.7 U	130 U	**30**	**49**	**42**
Benzene	µg/kg	0.77 U	0.74 U	0.56 U	0.80 U	-	0.77 U	0.35 U	**0.33 J**	22 U	0.62 U	0.61 U	0.61 U
Carbon disulfide	µg/kg	1.3 U	1.2 U	0.93 U	1.3 U	-	1.3 U	0.23 U	0.19 U	17 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	µg/kg	0.72 U	0.69 U	0.52 U	0.74 U	-	0.72 U	0.31 U	0.25 U	32 U	0.58 U	0.57 U	0.57 U
Cyclohexane	µg/kg	1.5 U	**61**	1.1 U	1.6 U	-	1.5 U	0.23 U	**0.43 J**	28 U	1.2 U	1.2 U	1.2 U
Ethylbenzene	µg/kg	1.2 U	1.1 U	0.84 U	1.2 U	-	1.2 U	0.30 U	**0.38 J**	**380**	0.93 U	0.91 U	0.91 U
Isopropyl benzene	µg/kg	0.92 U	0.88 U	0.67 U	0.95 U	-	0.92 U	0.22 U	0.18 U	**140 J**	0.74 U	0.72 U	0.73 U
Methyl cyclohexane	µg/kg	1.4 U	**23**	0.99 U	1.4 U	-	1.4 U	0.25 U	**0.55 J**	**77 J**	1.1 U	1.1 U	1.1 U
Methylene chloride	µg/kg	13 U	13 U	9.6 U	14 U	-	13 U	0.26 U	0.21 U	60 U	11 U	10 U	10 U
Tetrachloroethene	µg/kg	0.81 U	0.77 U	0.59 U	0.83 U	-	0.81 U	0.40 U	0.33 U	19 U	0.65 U	0.64 U	0.64 U
Toluene	µg/kg	0.85 U	**0.92 J**	0.62 U	0.88 U	-	0.85 U	0.37 U	**1.1 J**	**430**	0.68 U	0.67 U	0.67 U
Xylenes (total)	µg/kg	1.7 U	1.7 U	1.3 U	1.8 U	-	1.8 U	0.44 U	**0.68 J**	**2800**	1.4 U	1.4 U	1.4 U
Semi-Volatiles													
2-Methylnaphthalene	µg/kg	**850**	**10 J**	**20**	0.58 U	-	**5.9 J**	**26**	0.53 U	-	**6300**	**58 J**	**160 J**
Acenaphthene	µg/kg	**750**	**64**	0.83 U	0.88 U	-	0.88 U	0.97 U	**10**	-	**54000**	8.0 U	**97**
Acenaphthylene	µg/kg	**1100**	1.0 U	0.38 U	0.41 U	-	**4.9 J**	**9.7**	0.37 U	-	150 U	3.7 U	**79**
Acetophenone	µg/kg	170 U	31 U	12 U	13 U	-	13 U	14 U	12 U	-	4900 U	120 U	47 U
Anthracene	µg/kg	**3400**	**120**	**6.2 J**	0.91 U	-	**4.8 J**	**15**	**31**	-	**120000**	**57 J**	**260**
Benzaldehyde	µg/kg	350 UJ	65 UJ	25 U	27 U	-	27 U	29 U	24 UJ	-	10000 UJ	240 UJ	98 UJ
Benzo(a)anthracene	µg/kg	**5900**	**280**	**30**	0.73 UJ	-	**28 J**	**57**	**130**	-	**260000**	**440**	**1400**
Benzo(a)pyrene	µg/kg	**4800**	**270**	**30**	**11 J**	-	**35 J**	**52**	**120**	-	**270000**	**680**	**1500**
Benzo(b)fluoranthene	µg/kg	**7400**	**410**	**47**	**15 J**	-	**46 J**	**76**	**150**	-	**330000**	**960**	**2000**
Benzo(g,h,i)perylene	µg/kg	**2500**	**160**	**29**	0.41 UJ	-	**24 J**	**42**	**84**	-	**120000**	**440**	**850**
Benzo(k)fluoranthene	µg/kg	**2500**	**150**	0.74 U	0.79 UJ	-	**17 J**	**32**	**67**	-	**130000**	**510**	**790**
Biphenyl (1,1-Biphenyl)	µg/kg	**260 J**	48 U	18 U	20 U	-	20 U	22 U	18 U	-	7500 U	180 U	73 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	770 U	**220**	55 U	59 U	-	**73 J**	65 U	54 U	-	23000 U	**620 J**	220 U
Caprolactam	µg/kg	1100 U	210 U	82 U	87 U	-	87 U	95 U	80 U	-	33000 U	790 U	320 U
Carbazole	µg/kg	**1800**	**72 J**	21 U	22 U	-	22 U	24 U	20 U	-	**92000**	200 U	**160 J**
Chrysene	µg/kg	**6000**	**340**	**40**	1.3 UJ	-	**35 J**	**68**	**140**	-	**250000**	**580**	**1400**
Dibenz(a,h)anthracene	µg/kg	**670**	1.9 U	0.72 U	0.77 U	-	0.77 U	**11**	**19**	-	**39000**	7.0 U	**230**
Dibenzofuran	µg/kg	**1700**	37 U	14 U	15 U	-	15 U	17 U	14 U	-	**30000**	140 U	**72 J**
Di-n-butylphthalate (DBP)	µg/kg	330 U	63 U	24 U	26 U	-	26 U	28 U	23 U	-	9700 U	230 U	94 U
Fluoranthene	µg/kg	**15000**	**700**	**56**	**19 J**	-	**58 J**	**110**	**250**	-	**590000**	**800**	**2700**
Fluorene	µg/kg	**2600**	**74**	0.58 U	0.62 U	-	0.62 U	**6.3 J**	**9.2**	-	**62000**	5.6 U	**74**
Hexachlorobenzene	µg/kg	32 U	6.0 U	2.3 U	2.4 U	-	2.4 U	2.7 U	2.2 U	-	930 U	22 U	9.0 U
Indeno(1,2,3-cd)pyrene	µg/kg	**2300**	**150**	**26**	0.41 UJ	-	**24 J**	**34**	**69**	-	**120000**	**410**	**770**
Isophorone	µg/kg	180 UJ	34 UJ	13 UJ	14 UJ	-	14 UJ	15 U	13 U	-	5300 UJ	130 UJ	51 UJ
Naphthalene	µg/kg	**870**	2.3 U	**19**	0.95 U	-	**5.3 J**	**19**	0.87 U	-	**18000**	8.7 U	**110 J**
Pentachlorophenol	µg/kg	870 U	160 U	63 U	67 U	-	67 U	74 U	62 U	-	26000 U	610 U	250 U
Phenanthrene	µg/kg	**15000**	**510**	**45**	**7.9 J**	-	**25 J**	**57**	**100**	-	**480000**	**360**	**940**
Phenol	µg/kg	120 U	23 U	8.7 U	9.3 U	-	9.3 U	10 U	8.5 U	-	3500 U	85 U	34 U
Pyrene	µg/kg	**11000**	**600**	**53**	**17 J**	-	**50 J**	**97**	**220**	-	**450000**	**890**	**2300**
Metals													
Aluminum	mg/kg	**9600**	**8700**	**3400**	**9200**	-	**8900**	**5800**	**1500 J**	-	**5900**	**9800**	**5100**
Antimony	mg/kg	**5.0 J**	**0.16 J**	**0.19 J**	**0.16 J**	-	**0.19 J**	**0.23 J**	0.12 UJ	-	**1.1 J**	**0.13 J**	**0.15 J**
Arsenic	mg/kg	**8.7**	**7.6**	**7.7**	**8.1**	-	**7.6**	**7.5**	**5.7**	-	**9.4**	**1.8**	**6.0**
Barium	mg/kg	**260**	**92**	**50**	**78**	-	**81**	**82 J**	**19**	-	**74**	**110**	**66**
Beryllium	mg/kg	**0.38**	**0.50**	**0.24**	**0.51**	-	**0.52**	**0.43**	**0.19**	-	**0.51**	**2.9**	**0.38**
Cadmium	mg/kg	**15**	**0.22**	**0.25**	**0.21**	-	**0.22**	**0.25**	**0.091 J**	-	**0.67**	**0.18 J**	**0.23**
Calcium	mg/kg	**100000**	**45000**	**110000**	**24000**	-	**20000**	**120000**	**220000**	-	**79000**	**170000**	**88000**
Chromium	mg/kg	**35**	**12**	**7.7**	**14**	-	**15**	**9.7**	**4.5**	-	**16**	**280**	**22**

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**
Sample Location:		**BH152-18**	**BH153-18**	**BH154-18**	**BH155-18**	**BH155-18**	**BH155-18**	**BH156-18**	**BH157-18**	**GP07-18**	**SS-146**	**SS-147**	**SS-149**
Sample ID:		**S-38443-052918-JC-099**	**S-38443-052918-JC-092**	**S-38443-052918-JC-094**	**S-38443-052918-JC-096**	**S-38443-052918-JC-097**	**S-38443-052918-JC-097**	**S-38443-051618-JC-074**	**S-38443-051718-JC-083**	**SO-38443-080118-JC-121**	**S-38443-052918-JC-098**	**S-38443-052918-JC-091**	**S-38443-052918-JC-095**
Sample Date:		**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**5/16/2018**	**5/17/2018**	**8/1/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**
Sample Depth:		**9-11 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**12-13 ft bgs**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**						**Duplicate**						
Metals (cont'd)													
Chromium III (trivalent)	mg/kg	**35**	**12**	**7.7**	**13**	-	**15**	**9.7**	**4.5**	-	**16**	**280**	**22**
Chromium VI (hexavalent)	mg/kg	**0.31 J**	0.27 U	0.26 U	**1.0**	-	0.28 U	0.31 U	0.25 U	-	0.27 U	**0.66 J**	**0.85 J**
Cobalt	mg/kg	**6.1**	**5.5**	**3.4**	**5.8**	-	**5.4**	**4.5**	**2.5**	-	**5.1**	**1.2**	**5.3**
Copper	mg/kg	**96**	**21**	**11**	**14**	-	**15**	**14**	**6.7**	-	**50**	**17**	**14**
Iron	mg/kg	**15000**	**15000**	**9800**	**16000**	-	**16000**	**12000**	**6300**	-	**22000**	**54000**	**14000**
Lead	mg/kg	**550**	**68**	**34**	**12**	-	**16**	**34 J**	**6.8**	-	**1000**	**14**	**26**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	**100 J**	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	**210**	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	**110**	-	-
Magnesium	mg/kg	**34000**	**19000**	**49000**	**10000**	-	**11000**	**53000**	**52000**	-	**37000**	**65000**	**31000**
Manganese	mg/kg	**470**	**430**	**370**	**250**	-	**310**	**480**	**340 J**	-	**390**	**6000**	**580**
Mercury	mg/kg	**0.61**	**0.060 J**	**0.034 J**	**0.027 J**	-	**0.025 J**	**0.18**	0.018 U	-	**0.56**	0.019 U	**0.040 J**
Nickel	mg/kg	**28**	**13**	**9.0**	**16**	-	**15**	**12**	**8.9**	-	**14**	**8.9**	**13**
Potassium	mg/kg	**1200**	**770**	**470**	**790**	-	**810**	**730**	**440**	-	**640**	**650**	**970**
Selenium	mg/kg	**1.4**	**0.51 J**	**0.38 J**	**0.45 J**	-	**0.45 J**	**0.38 J**	**0.24 J**	-	**0.45 J**	**1.1**	**0.62 J**
Silver	mg/kg	**1.9**	**0.043 J**	**0.046 J**	**0.037 J**	-	**0.063 J**	**0.049 J**	0.021 U	-	**0.35**	**0.13 J**	**0.074 J**
Sodium	mg/kg	**620**	**94 J**	**120 J**	**61 J**	-	**66 J**	**180 J**	**140 J**	-	**120 J**	**460 J**	**110 J**
Thallium	mg/kg	**0.16 J**	**0.15 J**	**0.10 J**	**0.16 J**	-	**0.16 J**	**0.15 J**	**0.083 J**	-	**0.25**	0.046 U	**0.19**
Vanadium	mg/kg	**19**	**21**	**10**	**22**	-	**23**	**15**	**5.2**	-	**18**	**170**	**22**
Zinc	mg/kg	**1600**	**57**	**71**	**47**	-	**48**	**69**	**15**	-	**260**	**62**	**48**
PCBs													
Aroclor-1242 (PCB-1242)	µg/kg	23 U	**980**	20 U	23 U	-	22 U	24 U	20 U	-	20 U	20 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	29 U	140 U	25 U	28 U	-	28 U	30 U	26 U	-	26 U	25 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	**70**	**1300**	24 U	27 U	-	26 U	29 U	25 U	-	25 U	24 U	25 U
Aroclor-1260 (PCB-1260)	µg/kg	27 U	130 U	23 U	26 U	-	25 U	28 U	24 U	-	24 U	23 U	24 U
Pesticides													
4,4'-DDD	µg/kg	**2.8 J**	1.7 U	7.8 U	1.8 U	-	1.7 U	20 U	1.5 U	-	32 U	1.5 U	1.6 U
4,4'-DDE	µg/kg	**2.1 J**	**28**	8.0 U	1.8 U	-	1.7 U	20 U	1.6 U	-	33 U	1.6 U	1.7 U
4,4'-DDT	µg/kg	1.4 U	1.3 U	6.0 U	1.3 U	-	1.3 U	15 U	1.2 UJ	-	24 U	**1.4 J**	1.3 U
alpha-Chlordane	µg/kg	**4.0 J**	**36**	7.9 U	1.8 U	-	1.7 U	20 U	1.6 U	-	32 U	1.5 U	1.7 U
beta-BHC	µg/kg	2.1 U	2.0 U	9.2 U	2.0 U	-	2.0 U	23 U	1.8 U	-	37 U	1.8 U	1.9 U
Dieldrin	µg/kg	1.3 U	**2.0 NJ**	5.8 U	1.3 U	-	1.3 U	15 U	1.1 U	-	24 U	1.1 U	1.2 U
Endosulfan I	µg/kg	1.5 U	1.4 U	6.4 U	1.4 U	-	1.4 U	16 U	1.2 U	-	26 U	1.2 U	1.3 U
Endosulfan II	µg/kg	1.8 U	**4.3 NJ**	7.8 U	1.8 U	-	1.7 U	20 U	1.5 U	-	32 U	1.5 U	1.6 U
Endrin	µg/kg	2.3 U	2.2 U	10 U	2.3 U	-	2.2 U	25 U	2.0 U	-	41 U	2.0 U	2.1 U
Endrin aldehyde	µg/kg	79 U	76 U	6.9 U	1.6 U	-	1.5 U	17 U	1.4 U	-	28 U	67 U	1.5 U
Endrin ketone	µg/kg	1.1 U	1.0 U	4.7 U	1.1 U	-	1.0 U	12 U	0.92 U	-	19 U	0.92 U	0.99 U
gamma-BHC (lindane)	µg/kg	2.2 U	**3.8 J**	9.5 U	2.1 U	-	2.1 U	24 U	1.9 U	-	39 U	1.8 U	2.0 U
gamma-Chlordane	µg/kg	**3.6 J**	**30 J**	6.5 U	1.5 U	-	1.4 U	16 U	1.3 U	-	27 U	1.3 U	1.4 U
Heptachlor epoxide	µg/kg	**2.0 J**	**8.0 NJ**	7.6 U	1.7 U	-	1.7 U	19 U	1.5 U	-	31 U	1.5 U	1.6 U
General Chemistry													
Cyanide (total)	mg/kg	**0.24 J**	**0.27 J**	0.19 U	0.20 U	-	0.25 U	0.26 U	0.19 U	-	0.22 U	0.18 U	0.21 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU03)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)
Sample Location:		**SS-150**	**SS-151**	**SS-153**	**TT-18**	**TT-18**	**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**	**BH150-18**	**BH151-18**	**GP08-19**
Sample ID:		**S-38443-052918-JC-093**	**S-38443-051618-JC-073**	**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**
Sample Date:		**5/29/2018**	**5/16/2018**	**5/17/2018**	**10/1/2008**	**10/1/2008**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**1/15/2019**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	0.78 U	0.19 U	0.18 U	R	4.9 U	0.58 UJ	0.21 U	R	0.75 UJ	0.93 U	0.75 U	0.82 U
1,4-Dichlorobenzene	µg/kg	0.84 U	0.29 U	0.28 U	**23 J**	4.9 U	0.88 UJ	0.31 U	R	R	1.0 U	0.81 U	0.88 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**13 J**	**5.7 J**	**9.9 J**	R	20 U	**9.9 J**	1.1 U	R	3.3 UJ	**5.8 J**	**6.0 J**	3.6 U
Acetone	µg/kg	**63**	**22**	**55**	R	20 U	**81 J**	6.1 U	R	19 UJ	24 U	19 U	21 U
Benzene	µg/kg	0.66 U	0.27 U	0.26 U	R	4.9 U	**0.90 J**	**0.46 J**	R	0.64 UJ	0.79 U	0.64 U	0.70 U
Carbon disulfide	µg/kg	1.1 U	0.17 U	0.17 U	R	4.9 U	0.53 UJ	0.19 U	R	1.1 UJ	1.3 U	1.1 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.62 U	0.23 U	**0.47 J**	R	4.9 U	0.70 UJ	0.25 U	R	0.60 UJ	0.73 U	0.60 U	0.65 U
Cyclohexane	µg/kg	1.3 U	0.17 U	0.17 U	**210 J**	9.8 U	**1.2 J**	**0.43 J**	R	1.3 UJ	1.6 U	1.3 U	1.4 U
Ethylbenzene	µg/kg	0.99 U	0.22 U	0.22 U	R	4.9 U	0.68 UJ	**0.78 J**	R	R	1.2 U	0.96 U	1.0 U
Isopropyl benzene	µg/kg	0.79 U	0.17 U	0.16 U	R	4.9 U	0.50 UJ	0.18 U	R	R	0.94 U	0.76 U	0.83 U
Methyl cyclohexane	µg/kg	1.2 U	0.19 U	0.18 U	**410 J**	**0.74 J**	**2.0 J**	**0.66 J**	R	1.1 UJ	1.4 U	1.1 U	1.2 U
Methylene chloride	µg/kg	11 U	0.20 U	0.19 U	**500 J**	4.9 U	0.60 UJ	0.22 U	R	11 UJ	14 U	11 U	12 U
Tetrachloroethene	µg/kg	0.69 U	0.31 U	0.30 U	R	4.9 U	0.93 UJ	**0.34 J**	R	R	0.82 U	0.67 U	0.73 U
Toluene	µg/kg	0.73 U	0.28 U	0.27 U	R	4.9 U	**1.2 J**	**1.8 J**	R	R	0.87 U	0.71 U	**1.0 J**
Xylenes (total)	µg/kg	1.5 U	0.33 U	0.32 U	R	**2.1 J**	1.0 UJ	**1.4 J**	R	R	1.8 U	1.5 U	1.6 U
Semi-Volatiles													
2-Methylnaphthalene	µg/kg	0.56 U	**8.1**	**22 J**	**10**	**62**	0.94 U	**16**	**6.8 J**	**46**	**15**	**33**	-
Acenaphthene	µg/kg	0.85 U	**5.0 J**	**57**	9.1 U	**140**	1.4 U	**4.4 J**	1.2 U	0.87 U	0.93 U	**7.3 J**	-
Acenaphthylene	µg/kg	0.39 U	**6.1 J**	**18 J**	9.1 U	**8.0**	0.66 U	0.38 U	0.54 U	0.40 U	**21**	**30**	-
Acetophenone	µg/kg	12 U	13 U	47 U	140 U	110 U	21 U	12 U	17 U	13 U	13 U	13 U	-
Anthracene	µg/kg	**11**	**16**	**380**	9.1 U	**50**	1.5 U	**11**	1.2 U	**8.6**	**31**	**25**	-
Benzaldehyde	µg/kg	26 UJ	26 U	98 UJ	140 U	110 U	43 UJ	25 UJ	35 UJ	26 UJ	28 UJ	27 U	-
Benzo(a)anthracene	µg/kg	**63**	**49**	**800**	9.1 U	**78**	**13**	**42**	0.97 U	**25**	**110**	**150**	-
Benzo(a)pyrene	µg/kg	**59**	**43**	**730**	9.1 U	**73**	**10 J**	**36**	0.99 U	**27**	**120**	**140**	-
Benzo(b)fluoranthene	µg/kg	**70**	**67**	**870**	9.1 U	**100**	**12 J**	**55**	0.91 U	**33**	**180**	**200**	-
Benzo(g,h,i)perylene	µg/kg	**42**	**41**	**450**	9.1 U	**50**	**7.9 J**	**26**	0.54 U	**23**	**74**	**120**	-
Benzo(k)fluoranthene	µg/kg	**30**	**27**	**340**	9.1 U	**42**	1.3 U	**17**	1.0 U	0.78 U	**63**	**66**	-
Biphenyl (1,1-Biphenyl)	µg/kg	19 U	19 U	73 U	68 U	53 U	32 U	18 U	26 U	20 U	21 U	20 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	57 U	58 U	220 U	68 U	53 U	96 U	55 U	**210**	**92**	**78 J**	60 U	-
Caprolactam	µg/kg	84 U	86 U	320 U	450 U	350 U	140 U	81 U	120 U	86 U	92 U	88 U	-
Carbazole	µg/kg	21 U	22 U	81 U	68 U	53 U	36 U	21 U	29 U	22 U	**24 J**	**22 J**	-
Chrysene	µg/kg	**57**	**61**	**830**	9.1 U	**80**	**13**	**47**	1.7 U	**38**	**140**	**180**	-
Dibenz(a,h)anthracene	µg/kg	0.74 U	**9.3**	**100**	9.1 U	**11**	1.2 U	**6.2 J**	1.0 U	0.76 U	**23**	**28**	-
Dibenzofuran	µg/kg	15 U	15 U	56 U	68 U	**84**	24 U	14 U	20 U	15 U	16 U	15 U	-
Di-n-butylphthalate (DBP)	µg/kg	25 U	**25 J**	94 U	68 U	53 U	41 U	**26 J**	34 U	25 U	27 U	26 U	-
Fluoranthene	µg/kg	**100**	**110**	**1900**	9.1 U	**190**	**24**	**87**	0.85 U	**46**	**280**	**250**	-
Fluorene	µg/kg	0.60 U	**7.1 J**	**62**	9.1 U	**100**	1.0 U	**3.8 J**	0.82 U	0.61 U	**16**	0.62 U	-
Hexachlorobenzene	µg/kg	2.4 U	2.4 U	9.0 U	9.1 U	7.1 U	4.0 U	2.3 U	3.2 U	2.4 U	2.6 U	2.5 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	**30**	**31**	**370**	9.1 U	**45**	0.66 U	**19**	0.54 U	0.40 U	**68**	**94**	-
Isophorone	µg/kg	13 UJ	14 U	51 U	68 U	53 U	23 U	13 U	18 U	14 UJ	15 UJ	14 UJ	-
Naphthalene	µg/kg	0.92 U	**8.0**	**21 J**	9.1 U	**46**	1.5 U	**10**	**13**	**24**	1.0 U	**27**	-
Pentachlorophenol	µg/kg	65 U	66 U	250 UJ	200 U	160 U	110 U	63 U	89 U	67 U	71 U	68 U	-
Phenanthrene	µg/kg	**48**	**80**	**490**	9.1 U	**250**	**20**	**47**	**5.8 J**	**54**	**150**	**130**	-
Phenol	µg/kg	9.0 U	9.1 U	34 U	68 U	53 U	15 U	8.7 U	12 U	9.2 U	9.8 U	9.4 U	-
Pyrene	µg/kg	**93**	**90**	**1700**	9.1 U	**160**	**24**	**74**	0.68 U	**47**	**240**	**260**	-
Metals													
Aluminum	mg/kg	**6200**	**7200**	**3500 J**	**5680**	**2310**	**2400 J**	**2500 J**	**9200 J**	**5000**	**10000**	**6700**	-
Antimony	mg/kg	0.13 UJ	**0.59 J**	**0.15 J**	**0.78 J**	6.4 U	0.20 UJ	0.12 UJ	**1.1 J**	**0.34 J**	**0.22 J**	**0.24 J**	-
Arsenic	mg/kg	**6.1**	**7.0**	**5.7**	**17.7**	**2.9**	**0.74 J**	**5.0**	**56**	**15**	**9.0**	**8.6**	-
Barium	mg/kg	**95**	**59 J**	**32**	**389**	**17.8 J**	**9.6**	**16**	**160**	**110**	**79**	**74**	-
Beryllium	mg/kg	**0.36**	**0.61**	**0.27**	**0.97**	**0.099 J**	**0.23 J**	**0.19 J**	**5.1**	**0.96**	**0.64**	**0.49**	-
Cadmium	mg/kg	**0.26**	**0.25**	**0.20**	0.68 U	**0.10 J**	0.070 U	**0.13 J**	**0.21 J**	**0.15 J**	**0.19 J**	**0.26**	-
Calcium	mg/kg	**76000**	**37000**	**110000**	**5650**	**142000**	**410000**	**130000**	**5400**	**66000**	**30000**	**31000**	-
Chromium	mg/kg	**9.5**	**10**	**7.5**	**11.7**	**4.6**	**2.9**	**8.1**	**19**	**9.3**	**15**	**12**	-

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU03)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**
Sample Location:		**SS-150**	**SS-151**	**SS-153**	**TT-18**	**TT-18**	**BH146-18**	**BH147-18**	**BH148-18**	**BH149-18**	**BH150-18**	**BH151-18**	**GP08-19**
Sample ID:		**S-38443-052918-JC-093**	**S-38443-051618-JC-073**	**S-38443-051718-JC-075**	**S-38443-100108-KMV-036**	**S-38443-100108-KMV-037**	**S-38443-051718-JC-082**	**S-38443-051718-JC-077**	**S-38443-051718-JC-079**	**S-38443-052918-JC-088**	**S-38443-052918-JC-086**	**S-38443-052918-JC-090**	**S-38443-011519-JC-154**
Sample Date:		**5/29/2018**	**5/16/2018**	**5/17/2018**	**10/1/2008**	**10/1/2008**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**1/15/2019**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**12 ft BGS**	**13-15 ft BGS**	**12-14 ft BGS**	**6-8 ft BGS**	**10-12 ft BGS**	**13-15 ft BGS**	**10-12 ft BGS**	**11.67-12.67 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Chromium III (trivalent)	mg/kg	**9.5**	**10**	**7.5**	-	-	**2.1**	**7.6**	**18**	**8.5**	**15**	**12**	-
Chromium VI (hexavalent)	mg/kg	1.4 U	0.27 U	0.26 U	-	-	**0.86 J**	**0.52 J**	**1.2**	**0.85 J**	1.5 U	1.4 U	-
Cobalt	mg/kg	**4.6**	**7.9**	**3.4**	**4.5 J**	**2.8 J**	**0.77**	**2.6**	**15**	**4.3**	**7.6**	**6.5**	-
Copper	mg/kg	**11**	**14**	**11**	**17.2**	**8.6**	**3.5**	**7.9**	**45**	**19**	**20**	**19**	-
Iron	mg/kg	**14000**	**13000**	**10000**	**9890**	**6040**	**1200**	**6700**	**9900**	**7900**	**19000**	**14000**	-
Lead	mg/kg	**49**	**23 J**	**9.1**	**6.4 J**	**9.1 J**	**2.1**	**4.2**	**19**	**12**	**30**	**40**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**30000**	**16000**	**43000**	**1290**	**53600**	**1500**	**51000**	**1100**	**28000**	**11000**	**13000**	-
Manganese	mg/kg	**390**	**690**	**370 J**	**84.9**	**297**	**37 J**	**280 J**	**76 J**	**160**	**350**	**620**	-
Mercury	mg/kg	**0.068 J**	**0.043 J**	**0.022 J**	0.14 U	0.11 U	0.034 U	0.019 U	**0.35**	**0.067 J**	**0.043 J**	**0.21**	-
Nickel	mg/kg	**11**	**11**	**9.1**	**8.8**	**7.4**	**11**	**7.6**	**36**	**11**	**14**	**12**	-
Potassium	mg/kg	**560**	**600**	**500**	**1070**	**365 J**	**180 J**	**480**	**1500**	**880**	**1000**	**870**	-
Selenium	mg/kg	**0.39 J**	**0.57 J**	**0.24 J**	**3.7 J**	26.6 U	**0.58 J**	**0.15 J**	**10**	**1.2**	**1.4**	**0.96 J**	-
Silver	mg/kg	**0.041 J**	**0.039 J**	**0.021 J**	1.4 U	1.1 U	0.036 U	0.022 U	**0.065 J**	**0.037 J**	**0.054 J**	**0.081 J**	-
Sodium	mg/kg	**110 J**	**78 J**	**120 J**	**130 J**	**177 J**	83 U	**140 J**	**270**	**150 J**	**67 J**	**59 J**	-
Thallium	mg/kg	**0.12 J**	**0.20 J**	**0.11 J**	**0.54**	0.11 U	0.078 U	**0.083 J**	**1.5**	**0.38**	**0.28**	**0.16 J**	-
Vanadium	mg/kg	**16**	**21**	**12**	**28.2**	**6.2**	**14**	**9.0**	**70**	**22**	**26**	**20**	-
Zinc	mg/kg	**58**	**60**	**31**	**10.3**	**23.2**	**6.5**	**24**	**31**	**28**	**57**	**84**	-
PCBs													
Aroclor-1242 (PCB-1242)	µg/kg	22 U	22 U	20 U	45 UJ	35 UJ	37 U	21 U	30 U	22 U	23 U	22 U	-
Aroclor-1248 (PCB-1248)	µg/kg	28 U	28 U	25 U	45 UJ	35 UJ	46 U	27 U	37 U	28 U	29 U	27 U	-
Aroclor-1254 (PCB-1254)	µg/kg	27 U	27 U	24 U	45 UJ	35 UJ	44 U	26 U	36 U	**37 J**	**210**	**31 J**	-
Aroclor-1260 (PCB-1260)	µg/kg	26 U	26 U	23 U	45 UJ	35 UJ	42 U	25 U	34 U	25 U	26 U	25 U	-
Pesticides													
4,4'-DDD	µg/kg	1.8 U	1.6 U	1.6 U	23 UJ	36 UJ	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
4,4'-DDE	µg/kg	1.8 U	1.7 U	1.7 U	23 U	36 U	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
4,4'-DDT	µg/kg	1.3 U	1.2 U	1.3 UJ	23 UJ	36 UJ	2.1 UJ	1.3 UJ	1.7 UJ	1.3 U	**3.7 NJ**	1.3 U	-
alpha-Chlordane	µg/kg	1.8 U	1.7 U	1.7 U	23 U	36 U	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
beta-BHC	µg/kg	2.0 U	1.9 U	1.9 U	23 U	36 U	3.2 U	2.0 U	2.6 U	2.0 U	2.1 U	2.0 U	-
Dieldrin	µg/kg	1.3 U	1.2 U	1.2 U	23 U	36 U	2.1 U	1.3 U	1.6 U	1.3 U	1.3 U	1.3 U	-
Endosulfan I	µg/kg	1.4 U	1.3 U	1.3 U	23 U	36 U	2.3 U	1.4 U	1.8 U	1.4 U	1.4 U	1.4 U	-
Endosulfan II	µg/kg	1.8 U	1.6 U	1.6 U	23 U	36 U	2.8 U	1.7 U	2.2 U	1.7 U	1.8 U	1.7 U	-
Endrin	µg/kg	2.2 U	2.1 U	2.1 U	23 U	36 U	3.6 U	2.2 U	2.8 U	2.2 U	2.3 U	2.2 U	-
Endrin aldehyde	µg/kg	1.5 U	72 U	1.5 U	23 U	36 U	2.5 U	1.5 U	1.9 U	1.5 U	**1.9 J**	1.5 U	-
Endrin ketone	µg/kg	1.1 U	0.98 U	0.99 U	23 U	36 U	1.7 U	1.0 U	1.3 U	1.0 U	1.1 U	1.0 U	-
gamma-BHC (lindane)	µg/kg	2.1 U	2.0 U	2.0 U	23 U	36 U	3.4 U	2.0 U	2.7 U	2.1 U	2.2 U	2.0 U	-
gamma-Chlordane	µg/kg	1.5 U	1.4 U	1.4 U	23 U	36 U	2.3 U	1.4 U	1.8 U	1.4 U	1.5 U	1.4 U	-
Heptachlor epoxide	µg/kg	1.7 U	1.6 U	1.6 U	23 U	36 U	2.7 U	1.6 U	2.1 U	1.7 U	1.7 U	1.6 U	-
General Chemistry													
Cyanide (total)	mg/kg	0.19 U	0.23 U	0.21 U	0.68 U	**0.52 J**	**1.3**	0.22 U	0.29 U	0.20 U	0.22 U	**0.22 J**	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	**0.5**
Total solids	%	-	-	-	**73.2**	**94.1**	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU04)	on-site (EU05)	on-site (EU05)	on-site (EU05)
Sample Location:		SS-138	SS-138	SS-139	SS-140	SS-142	SS-144	SS-145	TT-17	TT-17	BH133-18	SS-101	SS-123
Sample ID:		S-38443-051718-JC-080	S-38443-051718-JC-081	S-38443-051718-JC-076	S-38443-051718-JC-078	S-38443-052918-JC-085	S-38443-052918-JC-087	S-38443-052918-JC-089	S-38443-093008-KMV-034	S-38443-093008-KMV-035	S-38443-053118-JC-117	SS-38443-110218-JC-101	S-38443-053118-JC-116
Sample Date:		5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/29/2018	5/29/2018	5/29/2018	9/30/2008	9/30/2008	5/31/2018	11/2/2018	5/31/2018
Sample Depth:		0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0.17-2.17 ft BGS	0-2 ft BGS	0.17-2.17 ft BGS	0-2 ft BGS	5 ft BGS	14 ft BGS	7-9 ft BGS	0.25-2.25 ft BGS	0.3-2.3 ft BGS
			Duplicate										
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	**1.0 J**	**94 J**	0.41 UJ	50 UJ	0.90 U	0.71 U	0.70 U	5.0 U	6.1 U	0.70 U	0.80 U	0.85 U
1,4-Dichlorobenzene	µg/kg	R	R	R	49 UJ	0.96 U	0.76 U	0.76 U	5.0 U	6.1 U	0.75 U	0.86 U	0.92 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	2.1 U	R	2.3 UJ	90 UJ	3.9 U	3.1 U	3.0 U	20 U	24 U	3.0 U	3.5 U	3.7 U
Acetone	µg/kg	5.0 U	R	5.5 UJ	170 UJ	23 U	18 U	18 U	20 U	24 U	18 U	20 U	**29**
Benzene	µg/kg	0.52 U	R	0.58 UJ	43 UJ	0.76 U	0.60 U	0.60 U	5.0 U	6.1 U	0.60 U	0.68 U	0.73 U
Carbon disulfide	µg/kg	0.34 U	R	0.38 UJ	32 UJ	1.3 U	1.0 U	1.0 U	5.0 U	6.1 U	0.99 U	1.1 U	1.2 U
cis-1,2-Dichloroethene	µg/kg	0.45 U	R	0.50 UJ	63 UJ	0.71 U	0.56 U	0.56 U	5.0 U	6.1 U	0.56 U	0.63 U	0.68 U
Cyclohexane	µg/kg	0.34 U	R	0.38 UJ	54 UJ	1.5 U	1.2 U	1.2 U	10 U	12 U	1.2 U	1.3 U	1.4 U
Ethylbenzene	µg/kg	0.44 UJ	R	R	63 UJ	1.1 U	0.90 U	0.90 U	5.0 U	6.1 U	0.89 U	1.0 U	1.1 U
Isopropyl benzene	µg/kg	0.32 UJ	R	R	61 UJ	0.91 U	0.72 U	0.71 U	5.0 U	6.1 U	0.71 U	0.81 U	0.86 U
Methyl cyclohexane	µg/kg	0.37 U	R	**0.55 J**	67 UJ	1.3 U	1.1 U	1.1 U	10 U	12 U	1.0 U	1.2 U	1.3 U
Methylene chloride	µg/kg	0.39 U	R	0.43 UJ	120 UJ	13 U	10 U	10 U	5.0 U	6.1 U	10 U	12 U	12 U
Tetrachloroethene	µg/kg	0.60 UJ	R	R	**72 J**	0.80 U	0.63 U	0.63 U	5.0 U	6.1 U	0.62 U	0.71 U	0.76 U
Toluene	µg/kg	0.55 UJ	R	R	43 UJ	0.84 U	0.66 U	0.66 U	5.0 U	6.1 U	0.66 U	0.75 U	0.80 U
Xylenes (total)	µg/kg	0.65 UJ	R	R	50 UJ	1.7 U	1.4 U	1.4 U	10 U	12 U	1.4 U	1.5 U	1.6 U
Semi-Volatiles													
2-Methylnaphthalene	µg/kg	**11**	**14**	**240**	**6.4 J**	2.3 U	**69**	**100**	7.3 U	**42**	0.57 U	**39 J**	**34**
Acenaphthene	µg/kg	1.2 U	1.3 U	0.85 U	1.1 U	3.5 U	0.87 U	**190**	**8.5**	**250**	0.87 U	**170**	**67**
Acenaphthylene	µg/kg	0.57 U	0.58 U	**8.8**	0.49 U	**25 J**	0.40 U	**45**	7.3 U	33 U	0.40 U	18 U	**95**
Acetophenone	µg/kg	18 U	18 U	**25 J**	15 U	50 U	13 U	31 U	110 U	500 U	13 U	50 U	26 U
Anthracene	µg/kg	1.3 U	**7.3 J**	**13**	1.1 U	**120**	0.90 U	**480**	**18**	**370**	0.89 U	**580**	**250**
Benzaldehyde	µg/kg	**57 J**	**120 J**	**39 J**	32 UJ	110 UJ	26 U	65 U	110 U	500 U	26 U	110 U	54 U
Benzo(a)anthracene	µg/kg	**11**	**27**	**65**	**14**	**660**	**13**	**1100**	**84**	**1200**	0.72 U	**1900**	**940**
Benzo(a)pyrene	µg/kg	**8.7 J**	**27**	**55**	**12**	**690**	**11**	**1100**	**89**	**990**	**5.1 J**	**1400**	**880**
Benzo(b)fluoranthene	µg/kg	**15**	**38**	**94**	**20**	**1000**	**14**	**1300**	**120**	**1300**	**8.5**	**1900**	**1400**
Benzo(g,h,i)perylene	µg/kg	**7.9 J**	**20**	**64**	**11**	**400**	0.40 U	**790**	**67**	**560**	0.40 U	**640**	**520**
Benzo(k)fluoranthene	µg/kg	1.1 U	**12**	**28**	**7.1 J**	**410**	0.78 U	**480**	**59**	**600**	0.78 U	**840**	**510**
Biphenyl (1,1-Biphenyl)	µg/kg	28 U	28 U	**25 J**	24 U	78 U	20 U	48 U	55 U	250 U	19 U	78 U	40 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	84 U	**110 J**	57 U	71 U	**4700**	59 U	140 U	55 U	250 U	58 U	230 U	120 U
Caprolactam	µg/kg	120 U	120 U	83 U	100 U	340 U	86 U	210 U	360 U	1600 U	86 U	340 U	180 U
Carbazole	µg/kg	31 U	31 U	21 U	26 U	87 U	22 U	**130 J**	55 U	**400**	22 U	**320**	**98 J**
Chrysene	µg/kg	**12**	**28**	**97**	**17**	**730**	**13**	**1100**	**110**	**1400**	1.3 U	**1900**	**900**
Dibenz(a,h)anthracene	µg/kg	1.1 U	1.1 U	**12**	0.92 U	**130**	0.76 U	**180**	**14**	**140**	0.75 U	**200**	1.6 U
Dibenzofuran	µg/kg	21 U	21 U	**67**	18 U	59 U	**16 J**	**100 J**	55 U	**180 J**	15 U	**100 J**	**62 J**
Di-n-butylphthalate (DBP)	µg/kg	36 U	36 U	**26 J**	**250**	100 U	25 U	62 U	55 U	250 U	25 U	100 U	52 U
Fluoranthene	µg/kg	**28 J**	**63 J**	**99**	**33**	**1200**	**19**	**2900**	**230**	**3700**	**9.8**	**3800**	**2000**
Fluorene	µg/kg	0.87 U	0.87 U	**8.5**	0.74 U	**43**	0.61 U	**150**	**8.5**	**250**	0.60 U	**220**	**84**
Hexachlorobenzene	µg/kg	3.4 U	3.5 U	2.3 U	2.9 U	9.6 U	2.4 U	5.9 U	7.3 U	33 U	2.4 U	13 U	4.9 U
Indeno(1,2,3-cd)pyrene	µg/kg	**5.5 J**	**13**	**32**	**7.0 J**	**350**	0.40 U	**610**	**55**	**530**	0.40 U	**650**	**400**
Isophorone	µg/kg	20 U	20 U	13 U	17 U	55 UJ	14 UJ	34 U	55 U	250 U	14 U	55 U	28 U
Naphthalene	µg/kg	**12**	**17**	**150**	**10**	**21 J**	**48**	**91**	7.3 U	**110**	0.94 U	**52 J**	**38**
Pentachlorophenol	µg/kg	95 U	95 U	65 UJ	81 U	260 U	67 U	160 U	160 U	750 U	66 U	260 U	140 U
Phenanthrene	µg/kg	**22**	**37**	**210**	**15**	**490**	**59**	**1900**	**140**	**3400**	**6.4 J**	**2100**	**1200**
Phenol	µg/kg	**27 J**	**13 J**	8.9 U	11 U	37 U	9.2 U	23 U	55 U	250 U	9.1 U	37 U	19 U
Pyrene	µg/kg	**25 J**	**57 J**	**100**	**29**	**1100**	**20**	**2400**	**180**	**2900**	**11**	**2900**	**1800**
Metals													
Aluminum	mg/kg	**13000 J**	**15000 J**	**4800 J**	**7500 J**	**7100**	**8300**	**6000**	**6830**	**3180**	**8000**	**5100**	**5100**
Antimony	mg/kg	**0.66 J**	**0.82 J**	**0.23 J**	**12 J**	**0.56 J**	**0.16 J**	**0.36 J**	6.6 UJ	**0.65 J**	**0.35**	**0.21 J**	**0.20 J**
Arsenic	mg/kg	**31**	**33**	**7.4**	**50**	**7.3**	**10**	**8.9**	**6.8**	**10.9**	**7.8**	**5.9**	**5.4**
Barium	mg/kg	**270**	**420**	**54**	**420**	**91**	**50**	**96**	**78.0**	**73.0**	**81**	**52**	**45**
Beryllium	mg/kg	**4.4**	**5.2**	**0.51**	**3.2**	**0.51**	**0.58**	**0.59**	**0.33 J**	**0.36 J**	**0.47**	**0.50**	**0.32**
Cadmium	mg/kg	**0.20 J**	**0.30**	**0.32**	**0.29**	**0.92**	**0.16 J**	**0.53**	**0.18 J**	**0.11 J**	**0.50**	**0.25**	**0.28**
Calcium	mg/kg	**100000**	**73000**	**47000**	**52000**	**51000**	**53000**	**64000**	**50600 J**	**27500 J**	**44000**	**61000**	**62000**
Chromium	mg/kg	**15**	**16**	**10**	**17**	**21**	**11**	**11**	**10.4**	**8.1**	**20**	**33**	**11**

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU04)**	**on-site (EU05)**	**on-site (EU05)**	**on-site (EU05)**
Sample Location:		**SS-138**	**SS-138**	**SS-139**	**SS-140**	**SS-142**	**SS-144**	**SS-145**	**TT-17**	**TT-17**	**BH133-18**	**SS-101**	**SS-123**
Sample ID:		**S-38443-051718-JC-080**	**S-38443-051718-JC-081**	**S-38443-051718-JC-076**	**S-38443-051718-JC-078**	**S-38443-052918-JC-085**	**S-38443-052918-JC-087**	**S-38443-052918-JC-089**	**S-38443-093008-KMV-034**	**S-38443-093008-KMV-035**	**S-38443-053118-JC-117**	**SS-38443-110218-JC-101**	**S-38443-053118-JC-116**
Sample Date:		**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/17/2018**	**5/29/2018**	**5/29/2018**	**5/29/2018**	**9/30/2008**	**9/30/2008**	**5/31/2018**	**11/2/2018**	**5/31/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**5 ft BGS**	**14 ft BGS**	**7-9 ft BGS**	**0.25-2.25 ft BGS**	**0.3-2.3 ft BGS**
Parameters	**Units**		**Duplicate**										
Metals (cont'd)													
Chromium III (trivalent)	mg/kg	**14**	**15**	**9.9**	**17**	**21**	**11**	**10**	-	-	**20**	**33**	**11**
Chromium VI (hexavalent)	mg/kg	**1.3**	**1.1 J**	**0.51 J**	**0.54 J**	0.28 U	0.28 U	**0.66 J**	-	-	0.28 U	0.28 U	0.29 U
Cobalt	mg/kg	**12**	**16**	**5.2**	**27**	**5.6**	**6.9**	**5.3**	**6.3**	**2.6 J**	**6.2**	**4.2**	**3.6**
Copper	mg/kg	**44**	**54**	**16**	**35**	**92**	**17**	**35**	**12.3**	**21.3**	**33**	**17**	**14**
Iron	mg/kg	**11000**	**17000**	**11000**	**12000**	**14000**	**18000**	**15000**	**14200**	**12000**	**21000**	**12000**	**11000**
Lead	mg/kg	**25**	**35**	**20**	**25**	**57**	**13**	**130**	**14.9 J**	**7.5 J**	**36**	**27 J**	**21**
Lead - coarse fraction	mg/kg	-	-	-	-	**33 J**	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	**50**	-	-	-	-	-	-	**310**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	**36**	-	-	-	-	-	-	-
Magnesium	mg/kg	**3700**	**8900**	**19000**	**21000**	**21000**	**26000**	**23000**	**13800**	**13400**	**19000**	**24000**	**55000**
Manganese	mg/kg	**130 J**	**230 J**	**320 J**	**280 J**	**370**	**410**	**410**	**441 J**	**76.0 J**	**570**	**950 J**	**470**
Mercury	mg/kg	**0.19**	**0.23**	**0.040 J**	**0.25**	**0.026 J**	**0.029 J**	**0.45**	**0.040 J**	**0.054 J**	**0.23**	**0.033 J**	**0.024 J**
Nickel	mg/kg	**29**	**34**	**12**	**51**	**33**	**18**	**12**	**11.0**	**7.5**	**24**	**14**	**9.1**
Potassium	mg/kg	**1100**	**2200**	**590**	**1200**	**790**	**940**	**790**	**725 J**	**399 J**	**880**	**620**	**720**
Selenium	mg/kg	**5.3**	**5.3**	**0.43 J**	**4.0**	**0.53 J**	**0.52 J**	**0.81 J**	27.5 U	**1.1 J**	**0.32 J**	**0.43 J**	**0.33 J**
Silver	mg/kg	**0.092 J**	**0.14 J**	**0.051 J**	**0.085 J**	**1.9**	**0.032 J**	**0.17 J**	1.1 U	1.2 U	**0.052 J**	**0.046 J**	**0.031 J**
Sodium	mg/kg	**140 J**	**230 J**	**71 J**	**400**	**160 J**	**79 J**	**95 J**	550 U	625 U	**92 J**	**75 J**	**220**
Thallium	mg/kg	**0.95**	**1.3**	**0.13 J**	**0.96**	**0.18 J**	**0.30**	**0.21**	0.15 U	**0.46**	**0.15 J**	**0.14 J**	**0.10 J**
Vanadium	mg/kg	**56**	**61**	**15**	**38**	**19**	**20**	**17**	**18.1 J**	**13.8 J**	**23**	**45**	**16**
Zinc	mg/kg	**32**	**46**	**53**	**130**	**74**	**53**	**280**	**40.0 J**	**27.3 J**	**110**	**86**	**58**
PCBs													
Aroclor-1242 (PCB-1242)	µg/kg	31 U	31 U	21 U	26 U	21 U	23 U	22 U	36 UJ	41 U	22 U	22 U	24 U
Aroclor-1248 (PCB-1248)	µg/kg	39 U	39 U	27 U	33 U	27 U	29 U	28 U	36 UJ	**59**	28 U	27 U	30 U
Aroclor-1254 (PCB-1254)	µg/kg	38 U	37 U	25 U	32 U	**110**	28 U	**27 J**	36 UJ	41 U	27 U	26 U	29 U
Aroclor-1260 (PCB-1260)	µg/kg	36 U	36 U	24 U	30 U	25 U	27 U	25 U	36 UJ	41 U	26 U	25 U	27 U
Pesticides													
4,4'-DDD	µg/kg	2.5 U	**2.8 NJ**	**1.8 J**	2.1 U	1.7 U	**1.9 J**	17 U	190 UJ	42 UJ	1.7 U	1.6 U	17 U
4,4'-DDE	µg/kg	2.5 U	2.5 U	1.6 U	2.1 U	1.7 U	**8.3**	17 U	190 U	42 U	1.8 U	1.7 U	18 U
4,4'-DDT	µg/kg	1.9 UJ	1.8 UJ	**2.5 J**	1.6 UJ	**2.3 NJ**	**4.6 J**	13 U	190 UJ	42 UJ	1.3 U	**1.2 J**	13 U
alpha-Chlordane	µg/kg	2.5 U	2.4 U	1.6 U	2.1 U	1.7 U	**2.5 J**	17 U	190 U	42 U	1.8 U	1.7 U	17 U
beta-BHC	µg/kg	2.9 U	2.8 U	1.9 U	2.4 U	1.9 U	2.1 U	20 U	190 U	42 U	2.0 U	1.9 U	20 U
Dieldrin	µg/kg	1.8 U	1.8 U	1.2 U	1.5 U	1.2 U	1.3 U	13 U	190 U	42 U	1.3 U	1.2 U	13 U
Endosulfan I	µg/kg	2.0 U	1.9 U	1.3 U	1.7 U	1.3 U	1.5 U	14 U	190 U	42 U	1.4 U	1.3 U	14 U
Endosulfan II	µg/kg	2.5 U	2.4 U	1.6 U	2.1 U	1.7 U	1.8 U	17 U	190 U	42 U	1.7 U	1.6 U	17 U
Endrin	µg/kg	3.2 U	3.1 U	2.0 U	2.7 U	2.1 U	2.3 U	22 U	190 U	42 U	2.2 U	2.1 U	22 U
Endrin aldehyde	µg/kg	2.2 U	2.1 U	1.4 U	1.8 U	1.5 U	1.6 U	15 U	190 U	42 U	1.5 U	1.4 U	15 U
Endrin ketone	µg/kg	1.5 U	1.4 U	0.96 U	1.2 U	**1.4 NJ**	1.1 U	**21 J**	190 U	42 U	1.0 U	0.98 U	10 U
gamma-BHC (lindane)	µg/kg	3.0 U	2.9 U	1.9 U	2.5 U	2.0 U	2.2 U	21 U	190 U	42 U	2.1 U	2.0 U	21 U
gamma-Chlordane	µg/kg	2.0 U	2.0 U	1.3 U	1.7 U	**2.8 J**	**2.7 J**	14 U	190 U	42 U	1.4 U	1.4 U	14 U
Heptachlor epoxide	µg/kg	2.4 U	2.3 U	1.6 U	2.0 U	1.6 U	1.8 U	17 U	190 U	42 U	1.7 U	1.6 U	17 U
General Chemistry													
Cyanide (total)	mg/kg	**0.79 J**	**0.51 J**	**0.67**	0.26 U	0.22 U	0.21 U	0.22 U	0.55 U	**0.25 J**	**0.22 J**	0.23 U	**0.24 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	**91.0**	**80.1**	-	-	-

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU05)**	**on-site (EU06)**	**on-site (EU06)**	**on-site (EU06)**	**on-site (EU06)**	**on-site (EU07)**	**on-site (EU07)**	**on-site (EU07)**	**on-site (EU07)**	**on-site (EU07)**	**on-site (EU07)**	**on-site (EU07)**
Sample Location:		**SS-158-AS**	**BH130-18**	**BH132-18**	**SS-116**	**SS-120**	**BH125-18**	**BH126-18**	**BH127-18**	**BH128-18**	**BH129-18**	**SS-102**	**SS-102**
Sample ID:		**SS-38443-110218-JC-158**	**S-38443-053018-JC-112**	**S-38443-053118-JC-119**	**S-38443-053018-JC-111**	**S-38443-053118-JC-118**	**S-38443-053018-JC-106**	**S-38443-053018-JC-101**	**S-38443-053018-JC-110**	**S-38443-053018-JC-108**	**S-38443-053018-JC-103**	**S-38443-053018-JC-104**	**S-38443-053018-JC-105**
Sample Date:		**11/2/2018**	**5/30/2018**	**5/31/2018**	**5/30/2018**	**5/31/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**
Sample Depth:		**0.25-0.75 ft BGS**	**9.5-11.5 ft BGS**	**6.5-8.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**7-9 ft BGS**	**10-12 ft BGS**	**7-9 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS Duplicate**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	-	0.83 U	2.5 UJ	1.5 U	1.6 UJ	0.75 U	0.75 U	0.78 U	1.2 UJ	0.71 U	1.3 UJ	0.77 U
1,4-Dichlorobenzene	µg/kg	-	0.89 U	2.7 UJ	R	R	0.81 U	0.80 U	0.84 U	1.3 UJ	0.77 U	R	0.83 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	-	3.6 U	**38 J**	6.4 U	6.8 UJ	**24**	**3.2 J**	3.4 U	**16 J**	**5.7 J**	5.9 UJ	3.4 U
Acetone	µg/kg	-	21 U	**250 J**	**180 J**	**67 J**	**110 J**	**19 J**	20 U	**140 J**	**31 J**	35 UJ	20 U
Benzene	µg/kg	-	0.70 U	2.2 UJ	1.3 U	1.3 UJ	0.64 U	0.64 U	0.66 U	1.0 UJ	0.61 U	1.1 UJ	0.66 U
Carbon disulfide	µg/kg	-	1.2 U	3.6 UJ	2.1 U	2.2 UJ	1.1 U	1.1 U	1.1 U	1.7 UJ	1.0 U	1.9 UJ	1.1 U
cis-1,2-Dichloroethene	µg/kg	-	0.66 U	2.0 UJ	1.2 U	1.3 UJ	0.59 U	0.59 U	**5.0**	0.94 UJ	0.57 U	1.1 UJ	0.61 U
Cyclohexane	µg/kg	-	1.4 U	**4.8 J**	2.5 U	2.6 UJ	1.3 U	1.3 U	1.3 U	2.0 UJ	1.2 U	2.3 UJ	1.3 U
Ethylbenzene	µg/kg	-	1.1 U	**3.6 J**	1.9 U	2.0 UJ	0.96 U	0.95 U	0.99 U	1.5 UJ	0.91 U	1.7 UJ	0.99 U
Isopropyl benzene	µg/kg	-	0.84 U	2.6 UJ	1.5 U	1.6 UJ	0.76 U	0.76 U	0.79 U	1.2 UJ	0.73 U	1.4 UJ	0.79 U
Methyl cyclohexane	µg/kg	-	1.2 U	**6.7 J**	2.2 U	2.4 UJ	1.1 U	1.1 U	1.2 U	1.8 UJ	1.1 U	2.0 UJ	1.2 U
Methylene chloride	µg/kg	-	12 U	37 UJ	22 U	23 UJ	11 U	11 U	11 U	17 UJ	10 U	20 UJ	11 U
Tetrachloroethene	µg/kg	-	**8.4**	**4.0 J**	**3.5 J**	1.4 UJ	0.67 U	0.66 U	0.69 U	1.1 UJ	0.64 U	1.2 UJ	0.69 U
Toluene	µg/kg	-	0.78 U	**8.9 J**	1.4 U	**1.5 J**	0.71 U	0.70 U	0.73 U	**1.4 J**	0.67 U	1.3 UJ	0.73 U
Xylenes (total)	µg/kg	-	1.6 U	**16 J**	2.9 U	3.1 UJ	1.4 U	1.4 U	1.5 U	2.3 UJ	1.4 U	2.6 UJ	1.5 U
Semi-Volatiles													
2-Methylnaphthalene	µg/kg	-	**12**	**750 J**	**300**	**1200**	**78**	**110**	0.59 U	**130**	**520**	**100**	**45**
Acenaphthene	µg/kg	-	0.88 U	1.7 UJ	0.87 U	1.8 U	**35**	**89**	0.90 U	**130**	**84**	**98**	**99**
Acenaphthylene	µg/kg	-	**4.5 J**	0.79 UJ	**9.1**	0.81 U	**26**	**47**	0.41 U	**92**	**38**	**60**	**69**
Acetophenone	µg/kg	-	13 U	25 UJ	13 U	**95 J**	12 U	12 U	13 U	42 U	57 U	29 U	12 U
Anthracene	µg/kg	-	**4.5 J**	1.8 UJ	**15**	**44**	**89**	**190**	0.92 U	**340**	**160**	**160**	**180**
Benzaldehyde	µg/kg	-	27 U	52 UJ	26 U	**94 J**	26 U	**32 J**	27 U	87 U	120 U	61 U	24 U
Benzo(a)anthracene	µg/kg	-	**24**	**41 J**	**34**	**130**	**390**	**760**	**8.0**	**750**	**190**	**680**	**670**
Benzo(a)pyrene	µg/kg	-	**27**	**27 J**	**35**	**100**	**370**	**790**	**10**	**840**	**200**	**1600**	**950**
Benzo(b)fluoranthene	µg/kg	-	**41**	**43 J**	**55**	**170**	**550**	**1200**	**13**	**950**	**230**	**2100**	**1400**
Benzo(g,h,i)perylene	µg/kg	-	**18**	0.79 UJ	**25**	**100**	**180**	**330**	**6.3 J**	**480**	**160**	**560**	**300**
Benzo(k)fluoranthene	µg/kg	-	0.79 U	1.5 UJ	0.78 U	**50**	**190**	**390**	0.80 U	**470**	**82**	**670**	**430**
Biphenyl (1,1-Biphenyl)	µg/kg	-	20 U	**130 J**	**28 J**	**120**	19 U	**22 J**	20 U	64 U	89 U	45 U	18 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	59 U	110 UJ	58 U	**320**	**67 J**	56 U	60 U	190 U	270 U	130 U	54 U
Caprolactam	µg/kg	-	87 U	170 UJ	86 U	170 U	85 U	82 U	89 U	280 U	390 U	200 U	80 U
Carbazole	µg/kg	-	22 U	43 UJ	22 U	44 U	**50 J**	**98**	22 U	**230**	99 U	**88 J**	**100**
Chrysene	µg/kg	-	**33**	**40 J**	**48**	**170**	**420**	**830**	**8.3**	**780**	**240**	**790**	**720**
Dibenz(a,h)anthracene	µg/kg	-	0.76 U	1.5 UJ	0.76 U	1.5 U	**68**	**87**	0.78 U	**120**	3.4 U	**160**	**75**
Dibenzofuran	µg/kg	-	15 U	29 UJ	**63**	**290**	**36 J**	**63**	15 U	**150 J**	68 U	**56 J**	**44 J**
Di-n-butylphthalate (DBP)	µg/kg	-	25 U	49 UJ	25 U	**53 J**	25 U	24 U	26 U	83 U	110 U	58 U	23 U
Fluoranthene	µg/kg	-	**50**	**72 J**	**60**	**160**	**720**	**1700**	**12**	**2300**	**560**	**1700**	**1800**
Fluorene	µg/kg	-	0.61 U	1.2 UJ	0.61 U	1.2 U	**35**	**74**	0.63 U	**210**	**100**	**69**	**72**
Hexachlorobenzene	µg/kg	-	2.4 U	4.7 UJ	2.4 U	4.9 U	**36**	2.3 U	2.5 U	7.9 U	11 U	5.5 U	2.2 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	**17**	**21 J**	0.40 U	**47**	**190**	**290**	**5.4 J**	**450**	**92**	**570**	**300**
Isophorone	µg/kg	-	14 U	27 UJ	14 U	28 U	14 U	13 U	14 U	**110 J**	63 U	32 U	13 U
Naphthalene	µg/kg	-	0.95 U	**110 J**	**210**	**740**	**66**	**300**	0.97 U	**200**	**140**	**69**	**33**
Pentachlorophenol	µg/kg	-	67 U	130 UJ	67 U	130 U	66 U	**860**	68 U	220 U	300 U	150 U	62 U
Phenanthrene	µg/kg	-	**23**	**210 J**	**140**	**670**	**430**	**910**	**6.3 J**	**1500**	**1300**	**540**	**610**
Phenol	µg/kg	-	9.2 U	18 UJ	9.2 U	19 U	9.1 U	8.8 U	9.4 U	30 U	42 U	21 U	8.5 U
Pyrene	µg/kg	-	**44**	**77 J**	**50**	**190**	**540**	**1300**	**10**	**1600**	**930**	**1500**	**1400**
Metals													
Aluminum	mg/kg	-	**8000**	**11000 J**	**1900**	**1600**	**9300**	**5800**	**12000**	**4000**	**3400**	**4800**	**4800**
Antimony	mg/kg	-	**0.32 J**	0.25 UJ	0.14 UJ	0.14 U	**5.4 J**	**0.75 J**	**0.20 J**	**0.28 J**	**0.16 J**	**0.23 J**	**0.25 J**
Arsenic	mg/kg	-	**9.6**	**6.5 J**	**5.5**	**6.6**	**19**	**9.2**	**11**	**4.2**	**5.0**	**7.2**	**6.9**
Barium	mg/kg	-	**100**	**75 J**	**72**	**89**	**1000**	**150**	**97**	**48**	**45**	**58**	**62**
Beryllium	mg/kg	-	**0.45**	**0.57 J**	**0.89**	**0.73**	**0.79**	**0.58**	**0.66**	**0.46**	**0.23**	**0.41**	**0.38**
Cadmium	mg/kg	-	**0.32**	**0.13 J**	0.047 U	**0.057 J**	**0.72**	**0.70**	**0.33**	**0.093 J**	**0.23**	**0.44**	**0.31**
Calcium	mg/kg	-	**84000**	**120000 J**	**1900**	**2300**	**47000**	**77000**	**10000**	**320000**	**120000**	**72000**	**90000**
Chromium	mg/kg	-	**15**	**63 J**	**5.1**	**4.7**	**38**	**11**	**18**	**5.8**	**7.0**	**9.3**	**14**

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU05)	on-site (EU06)	on-site (EU06)	on-site (EU06)	on-site (EU06)	on-site (EU07)	on-site (EU07)	on-site (EU07)	on-site (EU07)	on-site (EU07)	on-site (EU07)	on-site (EU07)
Sample Location:		SS-158-AS	BH130-18	BH132-18	SS-116	SS-120	BH125-18	BH126-18	BH127-18	BH128-18	BH129-18	SS-102	SS-102
Sample ID:		SS-38443-110218-JC-158	S-38443-053018-JC-112	S-38443-053118-JC-119	S-38443-053018-JC-111	S-38443-053118-JC-118	S-38443-053018-JC-106	S-38443-053018-JC-101	S-38443-053018-JC-110	S-38443-053018-JC-108	S-38443-053018-JC-103	S-38443-053018-JC-104	S-38443-053018-JC-105
Sample Date:		11/2/2018	5/30/2018	5/31/2018	5/30/2018	5/31/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018	5/30/2018
Sample Depth:		0.25-0.75 ft BGS	9.5-11.5 ft BGS	6.5-8.5 ft BGS	0-2 ft BGS	0-2 ft BGS	7-9 ft BGS	10-12 ft BGS	7-9 ft BGS	13-15 ft BGS	13-15 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate
Parameters	**Units**												
Metals (cont'd)													
Chromium III (trivalent)	mg/kg	-	**15**	**55 J**	**4.8**	**3.9**	**38**	**9.9**	**18**	**5.3**	**6.0**	**8.8**	**14**
Chromium VI (hexavalent)	mg/kg	-	0.28 U	**7.5 J**	**0.29 J**	**0.89 J**	0.28 U	**0.91**	0.57 U	**0.43 J**	**0.96**	**0.44 J**	0.26 U
Cobalt	mg/kg	-	**7.3**	**3.7 J**	**4.8**	**3.8**	**7.9**	**4.3**	**8.9**	**2.4**	**3.0**	**4.1**	**4.6**
Copper	mg/kg	-	**17**	**14 J**	**17**	**15**	**120**	**41**	**23**	**9.9**	**15**	**19**	**20**
Iron	mg/kg	-	**16000**	**11000 J**	**4600**	**5000**	**21000**	**9800**	**23000**	**4300**	**7600**	**10000**	**13000**
Lead	mg/kg	-	**21**	**15 J**	**1.7**	**4.7**	**140**	**270**	**17**	**21**	**35**	**38**	**51**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	**25000**	**26000 J**	**340**	**520**	**21000**	**27000**	**6500**	**13000**	**51000**	**30000**	**32000**
Manganese	mg/kg	-	**1000**	**290 J**	**31**	**45**	**690**	**250**	**610**	**110**	**220**	**230**	**460**
Mercury	mg/kg	-	**0.079 J**	0.045 UJ	**0.031 J**	0.021 U	**0.086 J**	**0.44**	**0.049 J**	**0.075 J**	**0.045 J**	**0.057 J**	**0.043 J**
Nickel	mg/kg	-	**13**	**13 J**	**8.2**	**9.2**	**27**	**11**	**20**	**13**	**9.3**	**11**	**11**
Potassium	mg/kg	-	**1000**	**380 J**	**200 J**	**250**	**1100**	**640**	**990**	**970**	**530**	**600**	**600**
Selenium	mg/kg	-	**0.54 J**	0.24 UJ	**0.43 J**	**0.37 J**	**0.82 J**	**0.60 J**	**0.53 J**	**0.36 J**	**0.24 J**	**0.71 J**	**0.73 J**
Silver	mg/kg	-	**0.075 J**	**0.078 J**	0.024 U	0.024 U	**0.14 J**	**0.16 J**	**0.090 J**	**0.031 J**	**0.040 J**	**0.051 J**	**0.051 J**
Sodium	mg/kg	-	**140 J**	**110 J**	**100 J**	**68 J**	**150 J**	**290**	**78 J**	**240 J**	**350**	**120 J**	**130 J**
Thallium	mg/kg	-	**0.17 J**	0.095 UJ	**0.063 J**	**0.13 J**	**0.25**	**0.18 J**	**0.20**	**0.11 J**	**0.10 J**	**0.17**	**0.15 J**
Vanadium	mg/kg	-	**22**	**24 J**	**11**	**10**	**27**	**16**	**30**	**26**	**25**	**18**	**26**
Zinc	mg/kg	-	**70**	**93 J**	**4.9**	**9.2**	**240**	**240**	**67**	**33**	**46**	**58**	**67**
PCBs													
Aroclor-1242 (PCB-1242)	µg/kg	-	22 U	42 UJ	22 U	22 U	22 U	20 U	22 U	30 U	20 U	21 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	-	28 U	52 UJ	28 U	27 U	28 U	26 U	28 U	37 U	25 U	26 U	25 U
Aroclor-1254 (PCB-1254)	µg/kg	-	27 U	50 UJ	27 U	26 U	27 U	25 U	27 U	36 U	**54**	25 U	**78**
Aroclor-1260 (PCB-1260)	µg/kg	-	26 U	48 UJ	26 U	25 U	26 U	24 U	26 U	34 U	23 U	24 U	23 U
Pesticides													
4,4'-DDD	µg/kg	-	1.6 U	3.5 UJ	**3.7 J**	**14**	1.6 U	34 U	1.8 U	2.2 U	32 U	16 U	16 U
4,4'-DDE	µg/kg	-	1.7 U	3.5 UJ	1.8 U	1.8 U	1.7 U	34 U	1.8 U	2.3 U	33 U	16 U	16 U
4,4'-DDT	µg/kg	-	**1.3 J**	2.7 UJ	1.3 U	1.3 U	**3.1 J**	26 U	1.3 U	1.7 U	24 U	12 U	12 U
alpha-Chlordane	µg/kg	-	1.7 U	3.5 UJ	1.8 U	1.8 U	1.7 U	34 U	1.8 U	2.3 U	32 U	16 U	16 U
beta-BHC	µg/kg	-	1.9 U	4.1 UJ	2.0 U	2.0 U	**1.9 NJ**	39 U	**4.5 J**	2.6 U	37 U	19 U	18 U
Dieldrin	µg/kg	-	1.2 U	2.6 UJ	1.3 U	1.3 U	1.2 U	25 U	1.3 U	1.7 U	24 U	12 U	12 U
Endosulfan I	µg/kg	-	1.3 U	2.8 UJ	1.4 U	1.4 U	1.3 U	27 U	1.4 U	1.8 U	26 U	13 U	13 U
Endosulfan II	µg/kg	-	1.6 U	3.5 UJ	1.7 U	**3.7 J**	1.6 U	34 U	1.8 U	2.2 U	32 U	16 U	16 U
Endrin	µg/kg	-	2.1 U	4.5 UJ	2.2 U	2.2 U	2.1 U	43 U	2.3 U	2.9 U	41 U	20 U	20 U
Endrin aldehyde	µg/kg	-	1.5 U	3.1 UJ	1.5 U	**1.8 NJ**	1.5 U	30 U	1.6 U	2.0 U	28 U	14 U	14 U
Endrin ketone	µg/kg	-	0.99 U	2.1 UJ	1.0 U	**3.6 J**	0.99 U	20 U	1.1 U	1.3 U	19 U	9.6 U	9.5 U
gamma-BHC (lindane)	µg/kg	-	2.0 U	4.2 UJ	2.1 U	2.1 U	2.0 U	41 U	2.1 U	2.7 U	39 U	19 U	19 U
gamma-Chlordane	µg/kg	-	1.4 U	2.9 UJ	1.4 U	1.5 U	1.4 U	28 U	1.5 U	1.8 U	27 U	13 U	13 U
Heptachlor epoxide	µg/kg	-	1.6 U	3.4 UJ	1.7 U	1.7 U	1.6 U	33 U	1.7 U	2.2 U	31 U	16 U	15 U
General Chemistry													
Cyanide (total)	mg/kg	-	0.23 U	**0.48 J**	**0.48 J**	**0.79**	0.19 U	0.20 U	0.23 U	**0.83**	0.19 U	0.18 U	0.18 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU07)**	**on-site (EU07)**	**on-site (EU07)**	**on-site (EU07)**	**on-site (EU08)**	**on-site (EU08)**	**on-site (EU08)**	**on-site (EU08)**	**on-site (EU08)**	**on-site (EU08)**	**on-site (EU08)**
Sample Location:		**SS-103**	**SS-104**	**SS-109**	**SS-112**	**BH122-18**	**SS-98**	**SS-99**	**SS-100**	**SS-100**	**SS-159-AS**	**SS-160-AS**
Sample ID:		**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053118-JC-115**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-159**	**SS-38443-110218-JC-160**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**6-8 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS Duplicate**	**0.25-0.75 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	0.97 U	1.0 U	1.1 UJ	1.0 U	0.74 U	0.74 U	0.81 U	1.1 U	0.92 U	-	-
1,4-Dichlorobenzene	µg/kg	R	R	R	1.1 U	0.80 U	0.80 U	0.87 U	1.2 U	0.99 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.2 U	4.5 U	**5.3 J**	4.4 U	**8.6 J**	**5.1 J**	3.5 U	4.7 U	4.0 U	-	-
Acetone	µg/kg	25 U	26 U	**35 J**	**57**	**34**	**28**	21 U	28 U	24 U	-	-
Benzene	µg/kg	0.83 U	0.88 U	0.91 UJ	0.86 U	0.63 U	0.63 U	0.69 U	0.92 U	0.79 U	-	-
Carbon disulfide	µg/kg	1.4 U	1.5 U	1.5 UJ	1.4 U	**2.8 J**	1.1 U	1.2 U	1.5 U	1.3 U	-	-
cis-1,2-Dichloroethene	µg/kg	0.77 U	0.82 U	0.85 UJ	0.80 U	0.59 U	0.59 U	0.65 U	0.96 U	0.93 U	-	-
Cyclohexane	µg/kg	1.6 U	1.7 U	1.8 UJ	1.7 U	1.2 U	1.2 U	1.4 U	1.8 U	1.5 U	-	-
Ethylbenzene	µg/kg	1.2 U	1.3 U	1.4 UJ	1.3 U	0.95 U	0.95 U	1.0 U	1.4 U	1.2 U	-	-
Isopropyl benzene	µg/kg	0.99 U	1.0 U	1.1 UJ	1.0 U	0.75 U	0.76 U	0.83 U	1.1 U	0.94 U	-	-
Methyl cyclohexane	µg/kg	1.5 U	1.5 U	1.6 UJ	1.5 U	1.1 U	1.1 U	1.2 U	1.6 U	1.4 U	-	-
Methylene chloride	µg/kg	14 U	15 U	16 UJ	15 U	11 U	11 U	12 U	16 U	14 U	-	-
Tetrachloroethene	µg/kg	**1.6 J**	0.92 U	0.95 UJ	0.90 U	0.66 U	0.66 U	0.72 U	0.96 U	0.82 U	-	-
Toluene	µg/kg	0.92 U	0.97 U	1.0 UJ	0.95 U	0.70 U	0.70 U	0.77 U	1.0 U	0.87 U	-	-
Xylenes (total)	µg/kg	1.9 U	2.0 U	2.1 UJ	1.9 U	1.4 U	1.4 U	1.6 U	2.1 U	1.8 U	-	-
Semi-Volatiles												
2-Methylnaphthalene	µg/kg	**66**	**62**	**45**	**13**	**27**	**36**	**19**	**95**	**180**	-	-
Acenaphthene	µg/kg	**55**	1.1 U	1.1 U	0.95 U	0.83 U	**6.8 J**	3.3 U	**20**	**27**	-	-
Acenaphthylene	µg/kg	**93**	**26**	**5.4 J**	0.44 U	**9.0**	**21**	**8.0 J**	**39**	**36**	-	-
Acetophenone	µg/kg	13 U	15 U	**21 J**	14 U	**41 J**	**12 J**	13 U	13 U	**48 J**	-	-
Anthracene	µg/kg	**78**	**47**	**9.8 J**	0.98 U	**8.3**	**15**	**19**	**80**	**87**	-	-
Benzaldehyde	µg/kg	28 U	32 U	35 U	29 U	**41 J**	26 U	27 U	28 U	26 U	-	-
Benzo(a)anthracene	µg/kg	**190**	**160**	**37**	**9.3**	**26**	**47**	**160**	**330**	**340**	-	-
Benzo(a)pyrene	µg/kg	**210**	**180**	**40**	**6.3 J**	**40**	**70**	**180**	**280**	**310**	-	-
Benzo(b)fluoranthene	µg/kg	**270**	**270**	**67**	**9.1**	**65**	**94**	**280**	**440**	**470**	-	-
Benzo(g,h,i)perylene	µg/kg	**87**	**100**	**26**	0.44 U	**36**	**150**	**170**	**240**	**260**	-	-
Benzo(k)fluoranthene	µg/kg	**100**	**84**	1.0 U	0.85 U	**24**	**38**	**90**	**150**	**200**	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	21 U	24 U	26 U	21 U	**25 J**	19 U	20 U	20 U	20 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	62 U	72 U	77 U	64 U	**180**	57 U	**60 J**	**74 J**	**140**	-	-
Caprolactam	µg/kg	90 U	110 U	110 U	94 U	82 U	84 U	87 U	90 U	86 U	-	-
Carbazole	µg/kg	**37 J**	27 U	29 U	24 U	21 U	21 U	22 U	**38 J**	**47 J**	-	-
Chrysene	µg/kg	**190**	**190**	**48**	1.4 U	**35**	**61**	**190**	**350**	**370**	-	-
Dibenz(a,h)anthracene	µg/kg	**22**	0.93 U	0.99 U	0.83 U	0.72 U	0.74 U	**40**	**56**	**69**	-	-
Dibenzofuran	µg/kg	**71**	**21 J**	20 U	16 U	14 U	15 U	15 U	**32 J**	**47 J**	-	-
Di-n-butylphthalate (DBP)	µg/kg	27 U	31 U	33 U	28 U	**30 J**	25 U	**40 J**	26 U	25 U	-	-
Fluoranthene	µg/kg	**490**	**470**	**100**	**22**	**59**	**84**	**310**	**700**	**800**	-	-
Fluorene	µg/kg	**63**	**22**	0.80 U	0.67 U	0.58 U	**7.9**	**5.1 J**	**27**	**32**	-	-
Hexachlorobenzene	µg/kg	2.5 U	2.9 U	3.2 U	2.6 U	2.3 U	2.4 U	3.3 U	3.4 U	3.3 U	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	**76**	**87**	**25**	0.44 U	**28**	**38**	**140**	**190**	**200**	-	-
Isophorone	µg/kg	14 U	17 U	18 U	15 U	13 U	13 U	14 U	14 U	14 U	-	-
Naphthalene	µg/kg	**42**	**60**	**51**	**15**	**120**	**34**	**9.5 J**	**91**	**160**	-	-
Pentachlorophenol	µg/kg	70 U	81 U	87 U	73 U	63 U	65 U	67 U	70 U	67 U	-	-
Phenanthrene	µg/kg	**360**	**240**	**62**	**19**	**49**	**54**	**93**	**360**	**460**	-	-
Phenol	µg/kg	9.7 U	11 U	12 U	10 U	8.7 U	9.0 U	9.3 U	9.6 U	9.2 U	-	-
Pyrene	µg/kg	**360**	**340**	**80**	**19**	**58**	**94**	**250**	**570**	**610**	-	-
Metals												
Aluminum	mg/kg	**9400**	**9300**	**9800**	**4600**	**3800**	**5500**	**5200**	**5700**	**3800**	-	-
Antimony	mg/kg	**0.56 J**	**0.66 J**	**0.60 J**	**0.45 J**	**0.49**	**1.2**	**0.24 J**	**0.55 J**	**0.23 J**	-	-
Arsenic	mg/kg	**20**	**33**	**59**	**28**	**5.4**	**5.2**	**9.8**	**8.7**	**6.7**	-	-
Barium	mg/kg	**230**	**230**	**350**	**96**	**110**	**77**	**72**	**89**	**41**	-	-
Beryllium	mg/kg	**1.9**	**4.1**	**3.2**	**1.5**	**0.19**	**0.25**	**0.71**	**0.61**	**0.37**	-	-
Cadmium	mg/kg	**0.30**	**0.44**	**0.32**	**0.16 J**	**0.45**	**0.52**	**0.32**	**0.74**	**0.25**	-	-
Calcium	mg/kg	**100000**	**32000**	**11000**	**70000**	**67000**	**57000**	**99000**	**56000**	**90000**	-	-
Chromium	mg/kg	**12**	**18**	**16**	**11**	**77**	**140**	**11**	**15**	**16**	-	-

Table 1

Summary of Detected Parameters
Soil Samples - Southern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU07)	on-site (EU07)	on-site (EU07)	on-site (EU07)	on-site (EU08)	on-site (EU08)	on-site (EU08)	on-site (EU08)	on-site (EU08)	on-site (EU08)	on-site (EU08)
Sample Location:		**SS-103**	**SS-104**	**SS-109**	**SS-112**	**BH122-18**	**SS-98**	**SS-99**	**SS-100**	**SS-100**	**SS-159-AS**	**SS-160-AS**
Sample ID:		**S-38443-053018-JC-102**	**S-38443-053018-JC-100**	**S-38443-053018-JC-109**	**S-38443-053018-JC-107**	**S-38443-053118-JC-115**	**S-38443-053118-JC-114**	**SS-38443-110218-JC-099**	**SS-38443-110218-JC-100**	**SS-38443-110218-JC-121**	**SS-38443-110218-JC-159**	**SS-38443-110218-JC-160**
Sample Date:		**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/30/2018**	**5/31/2018**	**5/31/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**	**11/2/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**6-8 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS Duplicate**	**0.25-0.75 ft BGS**	**0.17-0.67 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Chromium III (trivalent)	mg/kg	**12**	**16**	**16**	**11**	**77**	**140**	**11**	**15**	**16**	-	-
Chromium VI (hexavalent)	mg/kg	0.29 U	**1.5**	0.36 U	**0.90 J**	0.27 U	0.27 U	0.28 U	0.29 U	0.28 U	-	-
Cobalt	mg/kg	**7.7**	**12**	**9.3**	**7.8**	**5.2**	**5.6**	**4.2**	**5.2**	**3.9**	-	-
Copper	mg/kg	**37**	**40**	**38**	**24**	**240**	**960**	**13**	**45**	**15**	-	-
Iron	mg/kg	**11000**	**12000**	**15000**	**10000**	**13000**	**18000**	**16000**	**14000**	**11000**	-	-
Lead	mg/kg	**45**	**53**	**22**	**13**	**130**	**120**	**19 J**	**91 J**	**17 J**	-	-
Lead - coarse fraction	mg/kg	**41 J**	-	-	-	-	-	-	**23 J**	-	-	-
Lead - fine fraction	mg/kg	**31**	-	-	-	-	-	-	**42**	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	**37**	-	-	-	-	-	-	**27**	-	-	-
Magnesium	mg/kg	**27000**	**12000**	**3600**	**25000**	**44000**	**47000**	**38000**	**24000**	**33000**	-	-
Manganese	mg/kg	**280**	**170**	**91**	**210**	**330**	**420**	**400 J**	**540 J**	**430 J**	-	-
Mercury	mg/kg	**0.15**	**0.38**	**0.50**	**0.13**	**0.024 J**	**0.047 J**	**0.037 J**	**0.083 J**	0.024 U	-	-
Nickel	mg/kg	**18**	**28**	**21**	**17**	**470**	**700**	**11**	**21**	**15**	-	-
Potassium	mg/kg	**1100**	**1500**	**2200**	**730**	**450**	**600**	**680**	**790**	**610**	-	-
Selenium	mg/kg	**3.0**	**4.7**	**6.3**	**2.6**	**0.28 J**	**0.29 J**	**0.84 J**	**0.66 J**	**0.51 J**	-	-
Silver	mg/kg	**0.20 J**	**0.082 J**	**0.064 J**	**0.038 J**	**0.28**	**0.52**	**0.045 J**	**0.097 J**	**0.046 J**	-	-
Sodium	mg/kg	**230**	**240**	**290**	**140 J**	**150 J**	**140 J**	**140 J**	**87 J**	**100 J**	-	-
Thallium	mg/kg	**0.59**	**1.1**	**2.7**	**0.69**	**0.12 J**	**0.080 J**	**0.34**	**0.19 J**	**0.14 J**	-	-
Vanadium	mg/kg	**31**	**42**	**44**	**28**	**10**	**14**	**17**	**19**	**21**	-	-
Zinc	mg/kg	**79**	**50**	**36**	**34**	**210**	**260**	**55**	**140**	**61**	-	-
PCBs												
Aroclor-1242 (PCB-1242)	µg/kg	23 U	26 U	29 U	24 U	21 U	21 U	22 U	24 U	22 U	-	-
Aroclor-1248 (PCB-1248)	µg/kg	29 U	33 U	37 U	31 U	**74**	27 U	**400**	30 U	28 U	-	-
Aroclor-1254 (PCB-1254)	µg/kg	**87**	32 U	35 U	30 U	26 U	26 U	27 U	**160**	27 U	-	-
Aroclor-1260 (PCB-1260)	µg/kg	26 U	30 U	34 U	28 U	25 U	25 U	**74**	28 U	26 U	-	-
Pesticides												
4,4'-DDD	µg/kg	35 U	2.1 U	23 U	1.9 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	-	-
4,4'-DDE	µg/kg	36 U	2.1 U	23 U	1.9 U	**2.5 J**	1.7 U	1.7 U	1.8 U	1.7 U	-	-
4,4'-DDT	µg/kg	27 U	1.6 U	17 U	1.4 U	1.3 U	1.3 U	1.3 U	**2.0 J**	1.3 U	-	-
alpha-Chlordane	µg/kg	36 U	2.1 U	23 U	1.9 U	**2.3 J**	1.7 U	1.7 U	1.8 U	1.7 U	-	-
beta-BHC	µg/kg	41 U	2.4 U	26 U	2.2 U	2.0 U	2.0 U	2.0 U	2.1 U	2.0 U	-	-
Dieldrin	µg/kg	26 U	1.5 U	17 U	1.4 U	1.3 U	1.2 U	1.3 U	1.3 U	1.2 U	-	-
Endosulfan I	µg/kg	29 U	1.7 U	18 U	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	-	-
Endosulfan II	µg/kg	35 U	2.1 U	23 U	1.9 U	1.7 U	1.7 U	1.7 U	1.8 U	1.7 U	-	-
Endrin	µg/kg	45 U	2.6 U	29 U	2.4 U	2.2 U	2.2 U	2.2 U	2.3 U	2.2 U	-	-
Endrin aldehyde	µg/kg	31 U	1.8 U	20 U	1.7 U	1.5 U	1.5 U	1.5 U	1.6 U	1.5 U	-	-
Endrin ketone	µg/kg	21 U	1.2 U	14 U	1.1 U	1.0 U	1.0 U	1.0 U	1.1 U	1.0 U	-	-
gamma-BHC (lindane)	µg/kg	43 U	2.5 U	27 U	2.3 U	2.0 U	2.0 U	2.0 U	2.2 U	2.0 U	-	-
gamma-Chlordane	µg/kg	29 U	1.7 U	19 U	1.6 U	1.4 U	1.4 U	1.4 U	1.5 U	1.4 U	-	-
Heptachlor epoxide	µg/kg	34 U	2.0 U	22 U	1.8 U	**2.1 J**	1.6 U	1.6 U	1.7 U	1.6 U	-	-
General Chemistry												
Cyanide (total)	mg/kg	**0.26 J**	**0.28 J**	0.31 U	0.24 U	**0.25 J**	**0.26 J**	0.22 U	**0.35 J**	**0.24 J**	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-

Notes:

J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:								**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**
Sample Location:								**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**	**SS-91**
Sample ID:								**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
Sample Date:								**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:								**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS Duplicate**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**	**Risk-Based SSL a**	**MCL-Based SSL b**	**Samples**	**Detects**	**Min Detect**	**Max Detect**								
Volatiles															
1,1,1-Trichloroethane	µg/kg	280	70	330	14	0.54	1500[ab]	0.21 UJ	0.24 UJ	0.33 U	0.83 U	0.82 U	-	0.85 U	0.73 U
1,1,2-Trichloroethane	µg/kg	0.013	1.6	320	2	8.3[ab]	45[ab]	0.35 U	0.41 U	0.55 U	1.1 U	1.1 U	-	1.2 U	1.0 U
1,1-Dichloroethane	µg/kg	0.78	-	330	33	0.46	720[a]	0.30 U	0.35 U	0.47 U	0.70 U	0.69 U	-	0.72 U	0.62 U
1,1-Dichloroethene	µg/kg	10	2.5	328	6	0.89	79[ab]	0.49 U	0.57 U	0.77 U	0.92 U	0.90 U	-	0.94 U	0.80 U
1,2,4-Trichlorobenzene	µg/kg	1.2	200	293	7	0.98	210[ab]	0.22 U	0.25 U	0.34 U	0.58 U	0.57 U	-	0.59 U	0.51 U
1,2-Dichlorobenzene	µg/kg	30	580	294	9	1.1	250[a]	0.20 U	0.23 U	0.31 U	1.1 U	1.1 U	-	1.2 U	0.99 U
1,2-Dichloroethane	µg/kg	0.048	1.4	328	3	4.3[ab]	1200[ab]	0.26 U	0.30 U	0.41 U	0.78 U	0.77 U	-	0.80 U	0.69 U
1,2-Dichloroethene (total)	µg/kg	-	-	20	1	200	200	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	0.27	1.7	328	1	1800[ab]	1800[ab]	0.28 U	0.33 U	0.44 U	0.86 U	0.85 U	-	0.88 U	0.76 U
1,3-Dichlorobenzene	µg/kg	-	-	299	10	0.89	180	0.26 U	0.30 U	0.41 U	0.83 U	0.81 U	-	0.85 U	0.73 U
1,4-Dichlorobenzene	µg/kg	0.46	72	297	20	0.87[a]	12000[ab]	0.32 U	0.37 U	0.50 U	0.89 U	0.88 U	-	0.92 U	0.79 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	120	-	343	97	1	1900[a]	**1.4 J**	**3.3 J**	1.8 U	3.6 U	3.5 U	-	3.7 U	3.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	140	-	332	19	0.52	1000[a]	0.81 U	0.93 U	1.3 U	3.8 U	3.7 U	-	3.9 U	3.3 U
Acetone	µg/kg	290	-	337	47	3	28000[a]	8.9 U	11 U	4.3 U	21 U	21 U	-	22 U	19 U
Benzene	µg/kg	0.23	2.6	330	63	0.2	11000[ab]	0.29 U	0.34 U	0.45 U	0.71 U	0.70 U	-	0.73 U	0.62 U
Carbon disulfide	µg/kg	24	-	329	44	0.34	150[a]	0.19 U	0.22 U	0.30 U	1.2 U	1.2 U	-	1.2 U	1.0 U
Carbon tetrachloride	µg/kg	0.18	1.9	328	1	2.7[ab]	2.7[ab]	0.23 U	0.26 U	0.35 U	3.3 U	3.2 U	-	3.4 U	2.9 U
Chlorobenzene	µg/kg	5.3	68	322	49	0.37	560000[ab]	0.30 U	0.35 U	0.47 U	0.93 U	0.91 U	-	0.95 U	0.82 U
Chloroethane	µg/kg	590	-	328	6	1.4	91	0.34 U	0.40 U	0.54 U	1.2 U	1.2 U	-	1.3 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	0.061	22	328	5	0.25[a]	0.66[a]	0.21 U	0.24 U	0.33 U	0.80 U	0.78 U	-	0.82 U	0.70 U
cis-1,2-Dichloroethene	µg/kg	1.1	21	320	72	0.3	98000[ab]	0.25 U	0.29 U	0.40 U	0.66 U	0.65 U	-	0.68 U	0.58 U
Cyclohexane	µg/kg	1300	-	319	36	0.31	1400[a]	0.19 U	0.22 U	0.30 U	1.4 U	1.4 U	-	1.4 U	1.2 U
Ethylbenzene	µg/kg	1.7	780	323	75	0.28	350000[ab]	0.24 U	0.28 U	0.38 U	1.1 U	1.0 U	-	1.1 U	0.93 U
Isopropyl benzene	µg/kg	74	-	312	57	0.27	57000[a]	0.18 U	0.21 U	0.28 U	0.84 U	0.83 U	-	0.87 U	0.74 U
Methyl acetate	µg/kg	410	-	318	36	1.6	2400[a]	1.1 U	1.2 U	1.7 U	3.5 U	3.4 U	-	3.5 UJ	3.0 U
Methyl cyclohexane	µg/kg	-	-	320	92	0.25	53000	0.21 U	0.24 U	0.33 U	1.2 U	1.2 U	-	1.3 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	3.2	-	318	2	0.62	2	0.24 U	0.28 U	0.38 U	0.83 U	0.82 U	-	0.85 U	0.73 U
Methylene chloride	µg/kg	2.7	1.3	332	38	0.65	4000[ab]	5.3 U	5.5 U	0.34 U	12 U	12 U	-	12 U	11 U
Styrene	µg/kg	130	110	320	2	0.9	16	0.24 U	0.28 U	0.38 U	1.2 U	1.2 U	-	1.2 U	1.0 U
Tetrachloroethene	µg/kg	1.8	2.3	336	60	0.34	40000[ab]	0.33 U	0.39 U	0.52 U	0.74 U	0.73 U	-	0.76 U	0.65 U
Toluene	µg/kg	76	690	337	146	0.23	95000[ab]	0.31 U	0.36 U	0.48 U	0.78 U	0.77 U	-	0.80 U	0.69 U
trans-1,2-Dichloroethene	µg/kg	11	31	319	20	0.53	300[ab]	0.34 U	0.40 U	0.54 U	0.47 U	0.46 U	-	0.48 U	0.41 U
Trichloroethene	µg/kg	0.1	1.8	343	117	0.37[a]	28000[ab]	0.37 U	0.43 U	0.58 U	0.64 U	0.63 U	-	0.66 U	0.56 U
Trichlorofluoromethane (CFC-11)	µg/kg	330	-	318	1	79	79	0.22 U	0.25 U	0.34 U	1.1 U	1.1 U	-	1.1 U	0.96 U
Trifluorotrichloroethane (CFC-113)	µg/kg	2600	-	317	1	21	21	0.44 U	0.51 U	0.69 U	1.3 U	1.3 U	-	1.3 U	1.1 U
Vinyl chloride	µg/kg	0.0065	0.69	329	30	0.28[a]	1100[ab]	0.25 U	0.29 U	0.40 U	0.85 U	0.83 U	-	0.87 U	0.75 U
Xylenes (total)	µg/kg	19	9900	332	99	0.7	3000000[ab]	0.36 U	0.42 U	0.57 U	1.6 U	1.6 U	-	1.6 U	1.4 U
Semi-Volatiles															
2,4-Dimethylphenol	µg/kg	42	-	234	5	33	1400[a]	24 U	24 U	1200 U	92 U	89 U	-	42 U	86 U
2-Chlorophenol	µg/kg	8.9	-	235	1	50[a]	50[a]	9.7 U	9.8 U	500 U	23 U	22 U	-	10 U	21 U
2-Methylnaphthalene	µg/kg	19	-	245	189	4.1	29000[a]	**17**	**15**	**490**	**39**	**32 J**	-	**33**	**78**
2-Methylphenol	µg/kg	75	-	235	9	13	330[a]	13 U	13 U	670 U	71 U	69 U	-	33 U	66 U
3&4-Methylphenol	µg/kg	-	-	159	15	28	23000	24 U	24 U	1200 U	67 U	65 U	-	30 U	62 U
3,3'-Dichlorobenzidine	µg/kg	0.82	-	222	1	890[a]	890[a]	21 U	22 U	1100 U	99 U	96 U	-	45 U	92 U
Acenaphthene	µg/kg	550	-	245	109	4.3	120000[a]	0.89 U	**48**	**5300**	**87**	**97**	-	3.0 U	**89**
Acenaphthylene	µg/kg	-	-	235	101	4	3100	0.41 U	**4.4 J**	21 U	**37**	**26 J**	-	4.2 U	**60**
Acetophenone	µg/kg	58	-	225	41	14	3900[a]	11 U	11 U	560 U	25 U	24 U	-	12 U	24 U
Anthracene	µg/kg	5800	-	245	160	4.3	200000[a]	**5.3 J**	**170**	**12000**	**210**	**200**	-	**6.6 J**	**250**
Benzaldehyde	µg/kg	4.1	-	225	35	15[a]	420[a]	14 U	14 U	730 U	53 U	51 U	-	24 U	49 U
Benzo(a)anthracene	µg/kg	11	-	245	196	5.3	390000[a]	**34**	**520**	**27000**	**960**	**890**	-	**34**	**720**
Benzo(a)pyrene	µg/kg	29	240	245	188	7.4	340000[ab]	**47**	**350**	**17000**	**910**	**920**	-	**35**	**690**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:								**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**
Sample Location:								**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**	**SS-91**
Sample ID:								**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
Sample Date:								**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:								**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS Duplicate**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**	**Risk-Based SSL a**	**MCL-Based SSL b**	**Samples**	**Detects**	**Min Detect**	**Max Detect**								
Semi-Volatiles (cont'd)															
Benzo(b)fluoranthene	µg/kg	300	-	245	204	7.1	**460000**[a]	**84**	**540**	**25000**	**1400**	**1200**	-	**56**	**970**
Benzo(g,h,i)perylene	µg/kg	-	-	245	182	8.5	210000	**48**	**160**	**8700**	**350**	**730**	-	**20**	**390**
Benzo(k)fluoranthene	µg/kg	2900	-	245	170	7.6	**170000**[a]	**27**	**260**	**9500**	**580**	**490**	-	**17**	**330**
Biphenyl (1,1-Biphenyl)	µg/kg	0.87	-	225	74	**4.4**[a]	**11000**[a]	4.1 U	**6.0 J**	210 U	39 U	38 U	-	18 U	36 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300	1400	246	95	23	**560000**[ab]	22 U	**57 J**	1100 U	120 U	110 U	-	54 U	110 U
Butyl benzylphthalate (BBP)	µg/kg	240	-	245	23	25	**45000**[a]	12 U	12 U	600 U	51 U	49 U	-	23 U	47 U
Caprolactam	µg/kg	250	-	225	1	44	44	44 U	44 U	2200 U	170 U	170 U	-	79 U	160 U
Carbazole	µg/kg	-	-	235	62	21	140000	32 U	**60**	**8400**	**180**	**190**	-	**23 J**	**140**
Chrysene	µg/kg	9000	-	245	206	8.1	**350000**[a]	**49**	**480**	**29000**	**1000**	**970**	-	**40**	**720**
Dibenz(a,h)anthracene	µg/kg	96	-	245	103	8.3	**66000**[a]	**14**	**54**	**2700**	**100**	**180**	-	**8.3 J**	**120**
Dibenzofuran	µg/kg	15	-	245	117	10	**71000**[a]	0.78 U	**26 J**	**2700 J**	**41 J**	**41 J**	-	14 U	**57 J**
Diethyl phthalate	µg/kg	610	-	235	17	19	**9700**[a]	19 U	19 U	970 U	71 U	69 U	-	33 U	66 U
Dimethyl phthalate	µg/kg	-	-	235	2	680	2000	20 U	20 U	1000 U	32 U	31 U	-	15 U	30 U
Di-n-butylphthalate (DBP)	µg/kg	230	-	245	50	18	**6000**[a]	18 U	18 U	910 U	51 U	49 U	-	23 U	47 U
Di-n-octyl phthalate (DnOP)	µg/kg	5700	-	235	1	23	23	9.3 U	9.5 U	480 U	64 U	62 U	-	29 U	60 U
Fluoranthene	µg/kg	8900	-	245	221	5.6	**840000**[a]	**57**	**1200**	**65000**	**1900**	**1800**	-	**62**	**1500**
Fluorene	µg/kg	540	-	245	131	3.8	**150000**[a]	0.62 U	**45**	**5300**	**62**	**65**	-	2.9 U	**82**
Hexachlorobenzene	µg/kg	0.12	13	235	1	**350**[ab]	**350**[ab]	2.5 U	2.5 U	130 U	6.6 U	6.3 U	-	3.0 U	6.1 U
Hexachlorobutadiene	µg/kg	0.27	-	235	1	**13**[a]	**13**[a]	6.6 U	6.7 U	340 U	28 U	27 U	-	13 U	26 U
Indeno(1,2,3-cd)pyrene	µg/kg	980	-	245	171	7.3	**190000**[a]	**38**	**160**	**7600**	**350**	**620**	-	**14 J**	**370**
Isophorone	µg/kg	26	-	235	1	**44**[a]	**44**[a]	15 U	16 U	790 U	28 U	27 U	-	13 U	26 U
Naphthalene	µg/kg	0.54	-	245	182	**5.6**[a]	**110000**[a]	**11**	**20**	**500**	**30 J**	**29 J**	-	**25**	**59**
N-Nitrosodiphenylamine	µg/kg	67	-	245	3	53	**450**[a]	25 U	25 U	1300 U	28 U	27 U	-	13 U	26 U
Pentachlorophenol	µg/kg	0.057	1.4	234	1	**110**[ab]	**110**[ab]	11 U	11 U	550 U	130 UJ	130 UJ	-	61 UJ	120 UJ
Phenanthrene	µg/kg	-	-	245	219	7.9	690000	**41**	**530**	**52000**	**980**	**1100**	-	**44**	**980**
Phenol	µg/kg	330	-	235	27	12	**6600**[a]	8.6 U	8.8 U	440 U	18 U	18 U	-	8.4 U	17 U
Pyrene	µg/kg	1300	-	245	222	7	**670000**[a]	**51**	**910**	**50000**	**1900**	**1900**	-	**63**	**1400**
Metals															
Aluminum	mg/kg	3000	-	245	245	840	**21700**[a]	**9300**	**6500**	**6500 J**	**6500**	**6200**	-	**4700**	**4800**
Antimony	mg/kg	0.035	0.27	245	206	**0.12**[a]	**1400**[ab]	**0.31 J**	**3.0**	**0.55 J**	**0.21 J**	**0.27 J**	-	**0.30 J**	**0.57**
Arsenic	mg/kg	0.0015	0.29	246	245	**1.5**[ab]	**120**[ab]	**12**	**16**	**15**	**6.7**	**6.2**	-	**4.1**	**6.4**
Barium	mg/kg	16	82	245	245	6.3	**7810**[ab]	**100**	**280**	**130**	**55**	**61**	-	**70**	**75**
Beryllium	mg/kg	1.9	3.2	245	232	0.051	**6.9**[ab]	**0.55**	**2.3**	**1.2**	**0.52**	**0.49**	-	**0.97**	**0.59**
Cadmium	mg/kg	0.069	0.38	245	228	0.057	**64**[ab]	**0.38**	**2.6**	**0.35**	**0.24**	**0.25**	-	**0.82**	**0.44**
Calcium	mg/kg	-	-	245	245	580	217000	**46000**	**94000**	**58000**	**96000**	**93000**	-	**110000**	**85000**
Chromium	mg/kg	-	180000	253	253	2.4	1080	**14**	**89**	**13**	**11**	**11**	-	**57**	**12**
Chromium III (trivalent)	mg/kg	4000000	-	128	128	5.1	370	**14**	**89**	-	**11**	**11**	-	**57**	**12**
Chromium VI (hexavalent)	mg/kg	0.00067	-	128	34	**0.3**[a]	**16**[a]	1.4 U	1.4 U	-	0.28 U	0.27 U	-	**0.42 J**	0.26 U
Cobalt	mg/kg	0.027	-	245	244	**0.76**[a]	**317**[a]	**8.4**	**9.8**	**6.8**	**4.3**	**4.4**	-	**4.3**	**3.5**
Copper	mg/kg	2.8	46	245	245	**6**[a]	**191000**[ab]	**18**	**4700**	**37**	**20**	**21**	-	**3700**	**21**
Iron	mg/kg	35	-	245	245	**1860**[a]	**210000**[a]	**17000**	**59000**	**13000**	**12000**	**11000**	-	**17000**	**24000**
Lead	mg/kg	-	14	246	246	2.5	**26000**[b]	**23**	**680**	**58**	**28**	**36**	-	**210**	**42**
Lead - coarse fraction	mg/kg	-	-	22	22	18	47000	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	22	22	26	28000	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	22	22	19	43000	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	245	245	290	97000	**25000**	**29000**	**24000**	**36000**	**29000**	-	**41000**	**35000**
Manganese	mg/kg	2.8	-	245	245	**6.9**[a]	**2600**[a]	**810**	**700**	**270**	**350**	**370**	-	**300**	**560**
Mercury	mg/kg	0.0033	0.1	245	196	**0.016**[a]	**6.1**[ab]	**0.027 J**	**0.13**	**0.15**	**0.029 J**	**0.053 J**	-	**0.064 J**	**0.048 J**
Nickel	mg/kg	2.6	-	245	245	**4**[a]	**860**[a]	**15**	**38**	**16**	**12**	**12**	-	**47**	**10**
Potassium	mg/kg	-	-	245	241	81	2600	**1100**	**740**	**960**	**720**	**720**	-	**560**	**650**
Selenium	mg/kg	0.052	0.26	245	191	**0.14**[a]	**38**[ab]	**0.62 J**	**0.62 J**	**1.4**	**0.68 J**	**0.62 J**	-	**0.33 J**	**0.44 J**
Silver	mg/kg	0.08	-	245	182	0.018	**28**[a]	**0.055 J**	**0.64**	**0.094 J**	**0.044 J**	**0.053 J**	-	**0.81**	**0.040 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:								**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**
Sample Location:								**BH120-18**	**BH121-18**	**SS-86**	**SS-87**	**SS-87**	**SS-88**	**SS-90**	**SS-91**
Sample ID:								**S-38443-011918-JC-055**	**S-38443-011918-JC-054**	**S-38443-110217-BW-015**	**SS-38443-103118-JC-087**	**SS-38443-103118-JC-119**	**SS-38443-103118-JC-088**	**SS-38443-103118-JC-090**	**SS-38443-103118-JC-091**
Sample Date:								**1/19/2018**	**1/19/2018**	**11/2/2017**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:								**8-10 ft BGS**	**8-10 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-2.5 ft BGS Duplicate**	**0.5-2.5 ft BGS**	**0.17-2.17 ft BGS**	**0.5-2.5 ft BGS**
Parameters	**Units**	**Risk-Based SSL a**	**MCL-Based SSL b**	**Samples**	**Detects**	**Min Detect**	**Max Detect**								
Metals (cont'd)															
Sodium	mg/kg	-	-	245	190	43.7	3110	**78 J**	**240**	130 U	**120 J**	**110 J**	-	**160 J**	**160 J**
Thallium	mg/kg	0.0014	0.14	245	189	**0.075[a]**	**4.5[ab]**	**0.21**	**0.14 J**	**0.53**	**0.16 J**	**0.19**	-	**0.10 J**	**0.13 J**
Vanadium	mg/kg	8.6	-	245	245	0.62	**170[a]**	**23**	**18**	**30**	**17**	**18**	-	**60**	**16**
Zinc	mg/kg	37	-	245	245	7.7	**21900[a]**	**66**	**2000**	**81**	**59**	**70**	-	**1000**	**86**
PCBs															
Aroclor-1232 (PCB-1232)	µg/kg	0.08	-	250	1	**1100[a]**	**1100[a]**	27 U	27 U	19 U	26 U	25 U	-	24 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	1.2	-	250	23	**44[a]**	**930000[a]**	22 U	22 U	23 U	21 U	21 U	-	20 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	1.2	-	260	14	**59[a]**	**8600[a]**	28 U	28 U	20 U	27 U	27 U	-	25 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	2	-	250	107	**19[a]**	**450000[a]**	**50 J**	27 U	**41 J**	26 U	25 U	-	24 U	**170**
Aroclor-1260 (PCB-1260)	µg/kg	5.5	-	260	38	**23[a]**	**14000[a]**	26 U	26 U	21 U	25 U	24 U	-	23 U	23 U
Pesticides															
4,4'-DDD	µg/kg	1.5	-	234	12	**2[a]**	**43[a]**	4.0 U	4.0 U	21 U	1.7 U	1.6 U	-	1.5 U	1.6 U
4,4'-DDE	µg/kg	11	-	234	43	0.44	**280[a]**	1.4 U	1.4 U	7.5 U	1.7 U	1.7 U	-	1.6 U	**2.7 J**
4,4'-DDT	µg/kg	77	-	234	34	0.6	**820[a]**	1.7 U	1.7 U	8.8 U	**1.7 J**	1.3 U	-	1.2 U	**4.7 J**
alpha-BHC	µg/kg	0.042	-	234	3	**1.9[a]**	**13[a]**	1.9 U	1.9 U	10 U	1.0 U	1.0 U	-	0.95 U	0.97 U
alpha-Chlordane	µg/kg	-	-	234	4	1.7	13	4.6 U	4.6 U	24 U	1.7 U	1.7 U	-	1.6 U	1.6 U
beta-BHC	µg/kg	0.15	-	234	5	**2.2[a]**	**20[a]**	4.7 U	4.7 U	24 U	1.9 U	1.9 U	-	1.8 U	1.8 U
delta-BHC	µg/kg	-	-	234	1	130	130	1.6 U	1.6 U	8.2 U	1.9 U	1.9 U	-	1.8 U	1.8 U
Dieldrin	µg/kg	0.071	-	234	16	**3.3[a]**	**560[a]**	1.1 U	1.1 U	5.6 U	1.2 U	1.2 U	-	1.2 U	1.2 U
Endosulfan I	µg/kg	-	-	234	1	1.5	1.5	1.6 U	1.6 U	8.2 U	1.4 U	1.3 U	-	1.3 U	1.3 U
Endosulfan II	µg/kg	-	-	234	2	4	22	2.2 U	2.2 U	11 U	1.7 U	1.6 U	-	1.5 U	1.6 U
Endosulfan sulfate	µg/kg	210	-	234	1	1.7	1.7	1.4 U	1.4 U	7.5 U	1.4 U	1.4 U	-	1.3 U	1.4 U
Endrin	µg/kg	9.2	81	234	8	1.4	**140[ab]**	1.7 U	1.7 U	8.8 U	2.1 U	2.1 U	-	2.0 U	2.0 U
Endrin aldehyde	µg/kg	-	-	234	20	1.6	280	2.2 U	2.2 U	11 U	**1.6 J**	**4.1 J**	-	1.4 U	1.4 U
Endrin ketone	µg/kg	-	-	234	7	1.1	96	1.3 U	1.3 U	6.9 U	1.0 U	0.99 U	-	0.93 U	0.95 U
gamma-BHC (lindane)	µg/kg	0.24	1.2	234	4	**0.42[a]**	**3400[ab]**	3.5 U	3.5 U	18 U	2.0 U	2.0 U	-	1.9 U	1.9 U
gamma-Chlordane	µg/kg	-	-	234	17	0.35	180	1.8 U	1.8 U	9.4 U	1.4 U	1.4 U	-	1.3 U	**1.8 J**
Heptachlor epoxide	µg/kg	0.028	4.1	234	9	**0.49[a]**	**75[ab]**	2.9 U	2.9 U	15 U	1.6 U	1.6 U	-	1.5 U	1.5 U
Methoxychlor	µg/kg	200	2200	234	23	0.94	20	1.4 U	**1.8 NJ**	7.5 U	7.4 U	7.3 U	-	6.9 U	7.0 U
Herbicides															
2,4,5-TP (Silvex)	µg/kg	6.1	28	85	1	4.6	4.6	-	-	-	-	-	16 U	-	-
Petroleum Products															
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	1	1	1400000	1400000	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	1	1	410000	410000	-	-	-	-	-	-	-	-
Dioxin/Furans															
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	49	34	1.3	2300	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	49	49	4.9	9400	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	49	42	0.8	1800	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	49	47	2.7	1600	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	49	32	0.083	240	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	41	0.27	960	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	33	0.11	48	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	41	0.2	330	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	43	0.2	810	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	2	0.21	0.88	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	41	0.35	510	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	49	36	0.27	210	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	49	32	0.26	430	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	38	0.19	330	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	49	42	0.15	440	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	49	43	0.24	710	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:								on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)
Sample Location:								BH120-18	BH121-18	SS-86	SS-87	SS-87	SS-88	SS-90	SS-91
Sample ID:								S-38443-011918-JC-055	S-38443-011918-JC-054	S-38443-110217-BW-015	SS-38443-103118-JC-087	SS-38443-103118-JC-119	SS-38443-103118-JC-088	SS-38443-103118-JC-090	SS-38443-103118-JC-091
Sample Date:								1/19/2018	1/19/2018	11/2/2017	10/31/2018	10/31/2018	10/31/2018	10/31/2018	10/31/2018
Sample Depth:								8-10 ft BGS	8-10 ft BGS	0-2 ft BGS	0.5-2.5 ft BGS	0.5-2.5 ft BGS Duplicate	0.5-2.5 ft BGS	0.17-2.17 ft BGS	0.5-2.5 ft BGS
Parameters	**Units**	**Risk-Based SSL a**	**MCL-Based SSL b**	**Samples**	**Detects**	**Min Detect**	**Max Detect**								
Dioxin/Furans (cont'd)															
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.059	15	49	30	0.078[a]	180[ab]	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	49	49	1.4	2700	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	49	48	3.8	3800	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	49	49	1.3	3200	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	49	47	1.6	8700	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	49	48	2.4	4800	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	49	45	0.53	270000	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	49	48	3.5	8300	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	49	44	0.45	7900	-	-	-	-	-	-	-	-
Asbestos															
Chrysotile asbestos	%	-	-	29	29	0.25	60	-	-	-	-	-	-	-	-
General Chemistry															
Cellulose	%	-	-	1	1	20	20	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.0015	2	229	99	0.051[a]	120[ab]	0.088 U	**7.1**	0.51 U	0.20 U	0.23 U	-	0.22 U	0.19 U
Fraction organic carbon (FOC)	%	-	-	12	12	0.2	11.2	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	5	5	1300	67000	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	5	5	5200	32000	-	-	-	-	-	-	-	-
Total solids	%	-	-	68	68	52.4	96.7	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**
Sample Location:		**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**	**VAS-21B**	**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**
Sample ID:		**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**	**S-38443-060209-DR-001**	**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**	**6/2/2009**	**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS Duplicate**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	0.98 U	0.81 U	-	-	0.49 U	4.7 U	4.3 U	0.24 U	0.23 U	0.20 UJ	0.24 UJ	0.27 UJ
1,1,2-Trichloroethane	µg/kg	1.3 U	1.1 U	-	-	0.83 U	4.7 U	4.3 U	0.41 U	0.39 U	0.34 U	0.41 U	0.46 U
1,1-Dichloroethane	µg/kg	**4.3 J**	0.69 U	-	-	0.70 U	4.7 U	4.3 U	0.34 U	0.33 U	0.29 U	0.35 U	0.39 U
1,1-Dichloroethene	µg/kg	1.1 U	0.90 U	-	-	1.1 U	4.7 U	4.3 U	0.56 U	0.54 U	0.48 U	0.57 U	0.63 U
1,2,4-Trichlorobenzene	µg/kg	0.68 U	R	-	-	0.51 U	4.7 U	4.3 U	0.25 U	0.24 U	0.21 U	0.25 U	0.28 U
1,2-Dichlorobenzene	µg/kg	1.3 U	R	-	-	0.47 U	4.7 U	4.3 U	0.23 U	0.22 U	0.19 U	0.23 U	0.26 U
1,2-Dichloroethane	µg/kg	0.92 U	0.77 U	-	-	0.62 U	4.7 U	4.3 U	0.30 U	0.29 U	0.26 U	0.31 U	0.34 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1.0 U	0.84 U	-	-	0.66 U	4.7 U	4.3 U	0.32 U	0.31 U	0.27 U	0.33 U	0.36 U
1,3-Dichlorobenzene	µg/kg	0.97 U	R	-	-	0.62 U	4.7 U	4.3 U	0.30 U	0.29 U	0.26 U	0.31 U	0.34 U
1,4-Dichlorobenzene	µg/kg	1.1 U	R	-	-	0.74 U	4.7 U	4.3 U	0.36 U	0.35 U	0.31 U	0.37 U	0.41 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**41**	**6.6 J**	-	-	2.7 U	19 U	17 U	**3.5 J**	**3.1 J**	1.1 U	**7.3 J**	**6.4 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.4 U	3.7 U	-	-	1.9 U	19 U	17 U	0.93 U	0.88 U	0.79 U	0.94 U	1.0 U
Acetone	µg/kg	**180**	**22 J**	-	-	6.5 U	19 U	17 U	**17 J**	**20**	8.8 U	**42**	**37**
Benzene	µg/kg	0.83 U	0.69 U	-	-	0.68 U	4.7 U	4.3 U	0.33 U	0.32 U	0.28 U	0.34 U	0.38 U
Carbon disulfide	µg/kg	1.4 U	1.2 U	-	-	0.45 U	4.7 U	4.3 U	0.22 U	0.21 U	0.19 U	**0.34 J**	**0.38 J**
Carbon tetrachloride	µg/kg	3.9 U	3.2 U	-	-	0.53 U	4.7 U	4.3 U	0.26 U	0.25 U	0.22 U	0.26 U	0.29 U
Chlorobenzene	µg/kg	1.1 U	0.91 U	-	-	0.70 U	4.7 U	4.3 U	0.34 U	0.33 U	0.29 U	0.35 U	0.39 U
Chloroethane	µg/kg	1.5 U	1.2 U	-	-	0.81 U	4.7 U	4.3 U	0.40 U	0.38 U	0.34 U	0.40 U	0.45 U
Chloroform (Trichloromethane)	µg/kg	0.94 U	0.78 U	-	-	0.49 U	4.7 U	4.3 U	0.24 U	0.23 U	0.20 U	0.24 U	0.27 U
cis-1,2-Dichloroethene	µg/kg	0.78 U	0.65 U	-	-	0.60 U	4.7 U	4.3 U	0.29 U	0.28 U	0.25 U	0.30 U	0.33 U
Cyclohexane	µg/kg	1.6 U	1.4 U	-	-	0.45 U	9.4 U	8.6 U	0.22 U	0.21 U	0.19 U	0.22 U	0.25 U
Ethylbenzene	µg/kg	**2.4 J**	1.0 U	-	-	0.57 U	4.7 U	4.3 U	0.28 U	0.27 U	0.24 U	0.28 U	0.32 U
Isopropyl benzene	µg/kg	**1.1 J**	0.82 U	-	-	0.43 U	4.7 U	4.3 U	0.21 U	0.20 U	0.18 U	0.21 U	0.23 U
Methyl acetate	µg/kg	4.1 UJ	3.4 U	-	-	2.5 U	9.4 U	8.6 U	1.2 U	1.2 U	1.0 U	1.2 U	1.4 U
Methyl cyclohexane	µg/kg	1.5 U	1.2 U	-	-	0.49 U	9.4 U	8.6 U	0.24 U	0.23 U	0.20 U	0.24 U	0.27 U
Methyl tert butyl ether (MTBE)	µg/kg	0.98 U	0.81 U	-	-	0.57 U	19 U	17 U	0.28 U	0.27 U	0.24 U	0.28 U	0.32 U
Methylene chloride	µg/kg	14 U	12 U	-	-	0.51 U	4.7 U	4.3 U	0.49 U	0.46 U	5.3 U	5.0 U	6.8 U
Styrene	µg/kg	1.4 U	1.1 U	-	-	0.57 U	4.7 U	4.3 U	0.28 U	0.27 U	0.24 U	0.28 U	0.32 U
Tetrachloroethene	µg/kg	0.87 U	0.72 U	-	-	0.79 U	4.7 U	4.3 U	0.39 U	0.37 U	0.33 U	0.39 U	0.43 U
Toluene	µg/kg	**2.6 J**	0.77 U	-	-	0.72 U	4.7 U	4.3 U	0.35 U	0.34 U	0.30 U	0.36 U	0.40 U
trans-1,2-Dichloroethene	µg/kg	0.55 U	0.46 U	-	-	0.81 U	4.7 U	4.3 U	0.40 U	0.38 U	0.34 U	0.40 U	0.45 U
Trichloroethene	µg/kg	0.75 U	0.63 U	-	-	0.87 U	4.7 U	4.3 U	0.43 U	0.41 U	0.36 U	0.43 U	0.48 U
Trichlorofluoromethane (CFC-11)	µg/kg	1.3 U	1.1 U	-	-	0.51 U	4.7 U	4.3 U	0.25 U	0.24 U	0.21 U	0.25 U	0.28 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.5 U	1.3 U	-	-	1.0 U	4.7 U	4.3 U	0.51 U	0.49 U	0.43 U	0.52 U	0.58 U
Vinyl chloride	µg/kg	1.0 U	0.83 U	-	-	0.60 U	4.7 U	4.3 U	0.29 U	**0.28 J**	0.25 U	0.30 U	0.33 U
Xylenes (total)	µg/kg	**12**	1.6 U	-	-	0.85 U	9.4 U	8.6 U	0.42 U	0.40 U	0.35 U	0.42 U	0.47 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	2200 U	43 U	-	-	23 U	160 U	1700 U	23 U	23 U	23 U	21 U	22 U
2-Chlorophenol	µg/kg	560 U	11 U	-	-	9.6 U	52 U	550 U	9.5 U	9.4 U	9.5 U	8.6 U	9.2 U
2-Methylnaphthalene	µg/kg	**2900**	**9.7 J**	-	-	**1100**	7.0 U	74 U	**5.5 J**	**7.1 J**	**4.5 J**	**11 J**	**35 J**
2-Methylphenol	µg/kg	1700 U	33 U	-	-	**13 J**	210 U	2200 U	13 U	13 U	13 U	12 U	12 U
3&4-Methylphenol	µg/kg	1600 U	31 U	-	-	23 U	-	-	23 U	23 U	23 U	21 U	22 U
3,3'-Dichlorobenzidine	µg/kg	2400 U	46 U	-	-	21 U	100 U	1100 U	21 U	21 U	21 U	19 U	20 U
Acenaphthene	µg/kg	160 U	3.1 U	-	-	**44**	**7.1**	74 U	0.88 U	0.87 U	**12**	**4.3 J**	**16**
Acenaphthylene	µg/kg	220 U	**6.6 J**	-	-	**30**	7.0 U	74 U	**7.4 J**	**12**	0.41 U	0.37 U	**6.2 J**
Acetophenone	µg/kg	610 U	12 U	-	-	**96 J**	100 U	1100 U	11 U	11 U	11 U	9.7 U	10 U
Anthracene	µg/kg	130 U	**13 J**	-	-	**95**	**21**	**280**	**8.5**	**11**	**39**	**5.0 J**	**34 J**
Benzaldehyde	µg/kg	1300 U	25 U	-	-	**95 J**	100 U	1100 U	14 U	14 U	14 U	13 U	13 U
Benzo(a)anthracene	µg/kg	190 U	**100**	-	-	**290**	**110**	**360**	**27**	**39**	**160**	**61**	**100**
Benzo(a)pyrene	µg/kg	520 U	**84**	-	-	**210**	**99**	**410**	**32**	**44**	**190**	**120**	**130**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU10)	on-site (EU10)	on-site (EU10)	on-site (EU10)	on-site (EU10)
Sample Location:		**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**	**VAS-21B**	**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**
Sample ID:		**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**	**S-38443-060209-DR-001**	**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**	**6/2/2009**	**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS Duplicate**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	**600 J**	**340**	-	-	**400**	**140**	**480**	**42**	**70**	**270**	**320**	**290**
Benzo(g,h,i)perylene	µg/kg	**630 J**	**140**	-	-	**110**	**71**	**320**	**33**	**40**	**160**	**170**	**140**
Benzo(k)fluoranthene	µg/kg	390 U	**94**	-	-	**140**	**52**	**310**	**15**	**28**	**80**	**91**	**91**
Biphenyl (1,1-Biphenyl)	µg/kg	950 U	18 U	-	-	**64**	52 U	550 U	4.1 U	4.0 U	4.1 U	**4.4 J**	**9.3 J**
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	**8600**	55 U	-	-	57 U	52 U	550 U	22 U	22 U	**38 J**	20 U	21 U
Butyl benzylphthalate (BBP)	µg/kg	1200 U	24 U	-	-	12 U	52 U	550 U	12 U	12 U	12 U	11 U	11 U
Caprolactam	µg/kg	4200 U	81 U	-	-	43 U	350 U	3700 U	43 U	43 U	43 U	39 U	41 U
Carbazole	µg/kg	1100 U	21 U	-	-	**54 J**	52 U	550 U	31 U	31 U	31 U	28 U	30 U
Chrysene	µg/kg	83 U	**150**	-	-	**310**	**110**	**380**	**30**	**45**	**170**	**120**	**150**
Dibenz(a,h)anthracene	µg/kg	390 U	**48**	-	-	**30**	7.0 U	74 U	0.77 U	0.76 U	**35**	**50**	**40**
Dibenzofuran	µg/kg	720 U	14 U	-	-	**330**	52 U	550 U	0.77 U	0.76 U	0.77 U	0.69 U	**24 J**
Diethyl phthalate	µg/kg	1700 U	33 U	-	-	19 U	52 U	550 U	19 U	18 U	19 U	17 U	18 U
Dimethyl phthalate	µg/kg	780 U	15 U	-	-	20 U	52 U	550 U	20 U	20 U	20 U	18 U	19 U
Di-n-butylphthalate (DBP)	µg/kg	1200 U	24 U	-	-	18 U	52 U	550 U	**20 J**	17 U	17 U	16 U	17 U
Di-n-octyl phthalate (DnOP)	µg/kg	1600 U	30 U	-	-	9.3 U	52 U	550 U	9.2 U	9.1 U	9.2 U	8.3 U	8.9 U
Fluoranthene	µg/kg	**1100**	**110**	-	-	**560**	**210**	**690**	**48**	**81**	**380**	**52 J**	**200 J**
Fluorene	µg/kg	**530 J**	3.0 U	-	-	**50**	7.0 U	74 U	0.62 U	0.61 U	**13**	**4.0 J**	**17**
Hexachlorobenzene	µg/kg	160 U	3.1 U	-	-	2.5 U	7.0 U	74 U	2.4 U	2.4 U	2.4 U	2.2 U	2.4 U
Hexachlorobutadiene	µg/kg	670 U	13 U	-	-	6.6 U	52 U	550 U	6.5 U	6.4 U	6.5 U	5.9 U	6.3 U
Indeno(1,2,3-cd)pyrene	µg/kg	410 U	**120**	-	-	**67**	**59**	**300**	**26**	**34**	**130**	**140**	**110**
Isophorone	µg/kg	670 U	**44 J**	-	-	15 U	52 U	550 U	15 U	15 U	15 U	14 U	15 U
Naphthalene	µg/kg	**760 J**	**13 J**	-	-	**640**	7.0 U	74 U	**5.6 J**	**8.3**	**7.2 J**	**15 J**	**40 J**
N-Nitrosodiphenylamine	µg/kg	670 U	13 U	-	-	25 U	52 U	550 U	24 U	24 U	24 U	22 U	24 U
Pentachlorophenol	µg/kg	3200 U	63 U	-	-	11 U	160 U	1700 U	11 U	10 U	11 U	9.6 U	10 U
Phenanthrene	µg/kg	**1100**	**84**	-	-	**700**	**95**	**360**	**28**	**51**	**170**	**38 J**	**190 J**
Phenol	µg/kg	450 U	8.6 U	-	-	8.6 U	52 U	550 U	8.5 U	8.4 U	8.5 U	7.7 U	8.2 U
Pyrene	µg/kg	**1500**	**85**	-	-	**550**	**200**	**520**	**53**	**84**	**290**	**45 J**	**150 J**
Metals													
Aluminum	mg/kg	**7000**	**4600**	-	-	**3100 J**	**3720**	**5450**	**11000**	**9100**	**8000**	**2000**	**2900**
Antimony	mg/kg	**0.52**	**0.70**	-	-	0.18 UJ	**0.50 J**	**0.68 J**	**0.26 J**	**0.29 J**	0.34 UJ	**2.0 J**	**1.3 J**
Arsenic	mg/kg	**11**	**12**	-	-	**7.5**	**4.2 J**	**7.6**	**10**	**9.2**	**12**	**5.9**	**7.6**
Barium	mg/kg	**120**	**280**	-	-	**74**	**35.8**	**106 J**	**73**	**84**	**77**	**21**	**62**
Beryllium	mg/kg	**0.61**	**1.2**	-	-	**0.37**	0.52 U	**0.54 J**	**0.65**	**0.61**	**0.54**	**0.25**	**0.26**
Cadmium	mg/kg	**1.6**	**0.44**	-	-	**0.59**	**0.21 J**	**0.91**	**0.12 J**	**0.17 J**	**0.21**	**0.34**	**0.59**
Calcium	mg/kg	**80000**	**76000**	-	-	**140000**	**108000**	**108000**	**14000**	**16000**	**16000**	**1400 J**	**16000 J**
Chromium	mg/kg	**20**	**13**	-	-	**7.5**	**6.4 J**	**12.7**	**15**	**15**	**17**	**40**	**53**
Chromium III (trivalent)	mg/kg	**20**	**13**	-	-	-	-	-	**14**	**15**	**17**	**39**	**53**
Chromium VI (hexavalent)	mg/kg	0.27 U	0.26 U	-	-	-	-	-	**0.88 J**	**0.31 J**	1.4 U	**0.30 J**	0.27 U
Cobalt	mg/kg	**6.0**	**4.7**	-	-	**3.9**	**3.5 J**	**4.7 J**	**7.8**	**8.8**	**6.5**	**3.1**	**4.7**
Copper	mg/kg	**40**	**50**	-	-	**19**	**12.0**	**66.7 J**	**22**	**22**	**16**	**75**	**92**
Iron	mg/kg	**14000**	**11000**	-	-	**6900**	**7740**	**11300**	**21000**	**19000**	**18000**	**33000**	**47000**
Lead	mg/kg	**310**	**150**	-	-	**29**	**12.5**	**124 J**	**23**	**29**	**15**	**27**	**45**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**34000**	**26000**	-	-	**19000**	**40800**	**32800**	**7100**	**7200**	**8900**	**610 J**	**5700 J**
Manganese	mg/kg	**470**	**230**	-	-	**230**	**256**	**362**	**370**	**400**	**450 J**	**470 J**	**890 J**
Mercury	mg/kg	**0.17**	**0.082 J**	-	-	**0.26**	0.10 U	**0.096 J**	**0.073 J**	**0.050 J**	**0.027 J**	0.021 U	**0.054 J**
Nickel	mg/kg	**18**	**13**	-	-	**10**	**8.1**	**12.8**	**19**	**17**	**15**	**29**	**41**
Potassium	mg/kg	**920**	**640**	-	-	**390**	**559**	**785**	**1300**	**1200**	**1000**	**140 J**	**330**
Selenium	mg/kg	**0.77 J**	**0.75 J**	-	-	**1.1 J**	26.1 U	27.7 U	**1.2**	**1.2**	**0.74 J**	**0.35 J**	**0.44 J**
Silver	mg/kg	**0.16 J**	**0.084 J**	-	-	**0.043 J**	1.0 U	1.1 U	**0.036 J**	**0.043 J**	**0.042 J**	**0.085 J**	**0.14 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU09)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**
Sample Location:		**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**	**VAS-21B**	**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**
Sample ID:		**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**	**S-38443-060209-DR-001**	**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**	**6/2/2009**	**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS Duplicate**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	**170 J**	**170 J**	-	-	160 U	523 U	554 U	110 U	100 U	**60 J**	**55 J**	**73 J**
Thallium	mg/kg	**0.27**	**0.32**	-	-	**0.34 J**	0.10 U	**0.19**	**0.24 J**	**0.25 J**	**0.18 J**	**0.089 J**	**0.097 J**
Vanadium	mg/kg	**21**	**17**	-	-	**13**	**12.3**	**17.1**	**28**	**26**	**27**	**4.6**	**8.0**
Zinc	mg/kg	**210**	**130**	-	-	**38**	**39.2 J**	**291**	**67**	**74**	**58**	**98**	**59**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	260 U	25 U	-	-	19 U	35 U	37 U	26 U	27 U	26 U	24 U	26 U
Aroclor-1242 (PCB-1242)	µg/kg	210 U	20 U	-	-	24 U	35 U	37 U	22 U	22 U	22 U	20 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	270 U	26 U	-	-	21 U	35 U	37 U	28 U	28 U	27 U	25 U	27 U
Aroclor-1254 (PCB-1254)	µg/kg	260 U	25 U	-	-	17 U	35 U	37 U	26 U	27 U	26 U	24 U	26 U
Aroclor-1260 (PCB-1260)	µg/kg	240 U	23 U	-	-	22 U	35 U	37 U	25 U	26 U	25 U	23 U	25 U
Pesticides													
4,4'-DDD	µg/kg	33 U	1.6 U	-	-	**20 J**	18 U	-	4.0 U	37 U	3.8 U	3.4 U	3.6 U
4,4'-DDE	µg/kg	34 U	1.6 U	-	-	7.3 U	18 U	-	1.4 U	14 U	1.4 U	1.2 U	1.3 UJ
4,4'-DDT	µg/kg	25 U	1.2 U	-	-	8.5 U	18 U	-	1.7 U	16 U	1.6 U	1.5 U	1.5 U
alpha-BHC	µg/kg	20 U	0.97 U	-	-	9.7 U	18 U	-	1.9 U	18 U	1.9 U	1.7 U	1.8 U
alpha-Chlordane	µg/kg	33 U	1.6 U	-	-	23 U	18 U	-	4.6 U	43 U	4.4 U	4.0 U	4.2 U
beta-BHC	µg/kg	39 U	1.8 U	-	-	24 U	18 U	-	4.7 U	44 U	4.5 U	4.1 U	4.3 U
delta-BHC	µg/kg	38 U	1.8 U	-	-	7.9 U	18 U	-	1.6 U	15 U	1.5 U	1.4 U	72 U
Dieldrin	µg/kg	24 U	1.2 U	-	-	5.4 U	18 U	-	1.1 U	10 U	1.0 U	0.94 U	0.99 U
Endosulfan I	µg/kg	27 U	1.3 U	-	-	7.9 U	18 U	-	1.6 U	15 U	1.5 U	1.4 U	1.4 U
Endosulfan II	µg/kg	33 U	1.6 U	-	-	11 U	18 U	-	2.2 U	20 U	2.1 U	1.9 U	2.0 U
Endosulfan sulfate	µg/kg	28 U	1.4 U	-	-	7.3 U	18 U	-	1.4 U	14 U	1.4 U	1.2 U	66 U
Endrin	µg/kg	42 U	2.0 U	-	-	8.5 U	18 U	-	1.7 U	16 U	1.6 U	1.5 U	1.5 UJ
Endrin aldehyde	µg/kg	29 U	1.4 U	-	-	11 U	18 U	-	2.2 U	20 U	2.1 U	1.9 U	99 U
Endrin ketone	µg/kg	20 U	0.95 U	-	-	6.7 U	18 U	-	1.3 U	12 U	1.3 U	1.1 U	1.2 U
gamma-BHC (lindane)	µg/kg	40 U	1.9 U	-	-	18 U	18 U	-	3.5 U	33 U	3.4 U	3.0 U	3.2 U
gamma-Chlordane	µg/kg	27 U	1.3 U	-	-	9.1 U	18 U	-	1.8 U	17 U	1.7 U	1.6 U	1.7 U
Heptachlor epoxide	µg/kg	32 U	1.5 U	-	-	15 U	18 U	-	2.9 U	27 U	2.8 U	2.5 U	2.6 U
Methoxychlor	µg/kg	150 U	7.0 U	-	-	7.3 U	35 U	-	1.4 U	14 U	**1.5 NJ**	1.2 U	1.3 U
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	21 U	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	1.2 U	-	-	**11 J**	**11**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	**19**	-	-	**160**	**150**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	**0.80 J**	-	-	**13**	**11**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	**2.7 J**	-	-	**14**	**14**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	0.18 U	-	-	**0.45 J**	**0.51 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**0.35 J**	-	-	**0.82 J**	**0.87 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**0.18 J**	-	-	**0.22 J**	**0.23 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**0.20 J**	-	-	**1.2 J**	**1.2 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**0.38 J**	-	-	**0.91 J**	**0.95 J**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	0.090 U	-	-	0.24 U	0.15 U	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**0.36 J**	-	-	**0.68 J**	**0.60 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	0.082 U	-	-	0.21 U	0.17 U	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	**0.26 J**	-	-	0.14 U	**0.32 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**0.20 J**	-	-	**0.45 J**	**0.44 J**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	**0.21 J**	-	-	0.19 U	**0.41 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	**0.38 J**	-	-	**0.82 J**	**1.2**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU09)	on-site (EU10)	on-site (EU10)	on-site (EU10)	on-site (EU10)	on-site (EU10)
Sample Location:		**SS-92**	**SS-93**	**SS-161-AS**	**SS-162-AS**	**TP-17**	**TT-13**	**VAS-21B**	**BH97-17**	**BH97-17**	**BH117-18**	**BH118-18**	**BH118-18**
Sample ID:		**SS-38443-103118-JC-092**	**SS-38443-103118-JC-093**	**SS-38443-103118-JC-161**	**SS-38443-103118-JC-162**	**S-38443-110217-BW-016**	**S-38443-092508-KMV-017**	**S-38443-060209-DR-001**	**S-38443-120817-JC-005**	**S-38443-120817-JC-006**	**S-38443-011818-JC-050**	**S-38443-011818-JC-051**	**S-38443-011818-JC-052**
Sample Date:		**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**11/2/2017**	**9/25/2008**	**6/2/2009**	**12/8/2017**	**12/8/2017**	**1/18/2018**	**1/18/2018**	**1/18/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.5-1 ft BGS**	**0.17-0.67 ft BGS**	**8-10 ft BGS**	**7 ft BGS**	**3-5 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS Duplicate**	**10-12 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	**0.081 J**	-	-	0.068 U	**0.18 J**	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	**1.7 J**	-	-	**30 J**	**28 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	**5.2 J**	-	-	**27 J**	**28 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**4.4 J**	-	-	**30 J**	**25 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**3.7 J**	-	-	**7.0 J**	**6.9 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	**7.7 J**	-	-	**54 J**	**40 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	**8.9 J**	-	-	**18 J**	**20 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	**8.5 J**	-	-	**64 J**	**49 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	**2.8 J**	-	-	**1.9 J**	**1.9 J**	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.21 U	**0.23 J**	-	-	**0.54 J**	0.52 U	-	0.27 U	0.24 U	**0.11 J**	**0.077 J**	**0.15 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	**95.6**	**90.3**	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**
Sample Location:		**BH119-18**	**SS-32**	**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**	**SS-85**	**SS-163-AS**
Sample ID:		**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**
Sample Date:		**1/18/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**9-11 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	0.21 UJ	0.97 U	0.74 U	0.82 U	0.88 U	0.81 U	0.79 U	0.99 U	0.74 U	-	-
1,1,2-Trichloroethane	µg/kg	0.36 U	1.3 U	1.0 U	1.1 U	1.2 U	1.1 U	1.1 U	R	1.0 U	-	-
1,1-Dichloroethane	µg/kg	0.31 U	0.82 U	0.63 U	0.69 U	0.75 U	0.68 U	0.66 U	0.84 U	0.63 U	-	-
1,1-Dichloroethene	µg/kg	0.50 U	1.1 U	0.82 U	0.90 U	0.97 U	0.89 U	0.86 U	1.1 U	0.82 U	-	-
1,2,4-Trichlorobenzene	µg/kg	0.22 U	0.68 U	0.52 U	0.57 U	R	0.56 U	0.55 U	R	0.52 U	-	-
1,2-Dichlorobenzene	µg/kg	0.20 U	1.3 U	1.0 U	1.1 U	R	1.1 U	1.1 U	R	1.0 U	-	-
1,2-Dichloroethane	µg/kg	0.27 U	0.92 U	0.70 U	0.77 U	0.83 U	0.76 U	0.74 U	0.93 U	0.70 U	-	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	0.29 U	1.0 U	0.77 U	0.85 U	0.92 U	0.84 U	0.81 U	1.0 U	0.77 U	-	-
1,3-Dichlorobenzene	µg/kg	0.27 U	0.97 U	0.74 U	0.81 U	R	0.81 U	0.78 U	R	0.74 U	-	-
1,4-Dichlorobenzene	µg/kg	0.32 U	1.0 U	0.80 U	0.88 U	R	0.87 U	0.84 U	R	0.80 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.2 U	4.2 U	**15 J**	3.5 U	3.8 U	3.5 U	**19**	4.3 U	**13 J**	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	0.82 U	4.4 U	3.4 U	3.7 U	4.0 U	3.7 U	3.6 U	R	3.4 U	-	-
Acetone	µg/kg	9.0 U	25 U	**68**	21 U	**23 J**	21 U	**100**	**25 J**	**100**	-	-
Benzene	µg/kg	0.30 U	0.83 U	0.63 U	0.70 U	0.75 U	0.69 U	0.67 U	0.84 U	0.63 U	-	-
Carbon disulfide	µg/kg	0.19 U	1.4 U	1.1 U	1.2 U	1.3 U	1.1 U	1.1 U	1.4 U	1.0 U	-	-
Carbon tetrachloride	µg/kg	0.23 U	3.9 U	2.9 U	3.2 U	3.5 U	3.2 U	3.1 U	3.9 U	2.9 U	-	-
Chlorobenzene	µg/kg	0.31 U	1.1 U	0.83 U	0.91 U	0.99 U	0.90 U	0.88 U	R	0.83 U	-	-
Chloroethane	µg/kg	0.35 U	1.4 U	1.1 U	1.2 U	1.3 U	1.2 U	1.2 U	1.5 U	1.1 U	-	-
Chloroform (Trichloromethane)	µg/kg	0.21 U	0.94 U	0.71 U	0.79 U	0.85 U	0.78 U	0.75 U	0.95 U	0.71 U	-	-
cis-1,2-Dichloroethene	µg/kg	0.26 U	0.77 U	0.59 U	0.65 U	0.70 U	0.64 U	0.62 U	**0.93 J**	0.59 U	-	-
Cyclohexane	µg/kg	0.19 U	1.6 U	1.2 U	1.4 U	1.5 U	1.4 U	1.3 U	1.7 U	1.2 U	-	-
Ethylbenzene	µg/kg	0.25 U	1.2 U	0.95 U	1.0 U	1.1 U	1.0 U	1.0 U	R	0.95 U	-	-
Isopropyl benzene	µg/kg	0.19 U	0.99 U	0.75 U	0.83 U	0.89 U	0.82 U	0.80 U	R	0.75 U	-	-
Methyl acetate	µg/kg	1.1 U	4.0 U	3.1 UJ	3.4 U	3.7 UJ	3.4 U	3.3 U	4.1 UJ	3.1 U	-	-
Methyl cyclohexane	µg/kg	0.21 U	1.5 U	1.1 U	1.2 U	1.3 U	1.2 U	1.2 U	1.5 U	1.1 U	-	-
Methyl tert butyl ether (MTBE)	µg/kg	0.25 U	0.97 U	0.74 U	0.82 U	0.88 U	0.81 U	0.79 U	0.99 U	0.74 U	-	-
Methylene chloride	µg/kg	5.4 U	14 U	11 U	12 U	13 U	12 U	11 U	14 U	11 U	-	-
Styrene	µg/kg	0.25 U	1.4 U	1.0 U	1.2 U	1.2 U	1.1 U	1.1 U	R	1.0 U	-	-
Tetrachloroethene	µg/kg	0.34 U	0.87 U	0.66 U	0.73 U	0.79 U	0.72 U	0.70 U	R	0.66 U	-	-
Toluene	µg/kg	0.31 U	0.92 U	0.70 U	0.77 U	0.83 U	0.76 U	0.74 U	R	**1.7 J**	-	-
trans-1,2-Dichloroethene	µg/kg	0.35 U	0.55 U	0.42 U	0.46 U	0.50 U	0.46 U	0.45 U	0.56 U	0.42 U	-	-
Trichloroethene	µg/kg	0.38 U	0.75 U	0.57 U	0.63 U	0.68 U	0.62 U	0.61 U	0.76 U	0.57 U	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	0.22 U	1.3 U	0.97 U	1.1 U	1.2 U	1.1 U	1.0 U	1.3 U	0.97 U	-	-
Trifluorotrichloroethane (CFC-113)	µg/kg	0.45 U	1.5 U	1.2 U	1.3 U	1.4 U	1.3 U	1.2 U	1.5 U	1.2 U	-	-
Vinyl chloride	µg/kg	0.26 U	0.99 U	0.76 U	0.84 U	0.90 U	0.83 U	0.80 U	1.0 U	0.76 U	-	-
Xylenes (total)	µg/kg	0.37 U	1.9 U	1.4 U	1.6 U	1.7 U	1.6 U	1.5 U	R	**1.5 J**	-	-
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	23 U	41 U	45 U	49 U	44 U	45 U	45 U	87 U	45 U	-	-
2-Chlorophenol	µg/kg	9.6 U	10 U	11 U	12 U	11 U	11 U	11 U	22 U	11 U	-	-
2-Methylnaphthalene	µg/kg	**50**	**69**	**460**	**710**	**46**	**770**	**26**	**110**	**74**	-	-
2-Methylphenol	µg/kg	13 U	32 U	35 U	**84 J**	34 U	35 U	34 U	67 U	35 U	-	-
3&4-Methylphenol	µg/kg	23 U	30 U	33 U	**210 J**	32 U	33 U	32 U	63 U	33 U	-	-
3,3'-Dichlorobenzidine	µg/kg	21 U	44 U	49 U	53 U	47 U	49 U	48 U	93 U	48 U	-	-
Acenaphthene	µg/kg	0.89 U	**17**	**31**	3.5 U	3.1 U	**26**	3.2 U	**54**	3.2 U	-	-
Acenaphthylene	µg/kg	**7.5 J**	**28**	**51**	**28**	**34**	4.6 U	4.5 U	**140**	**13 J**	-	-
Acetophenone	µg/kg	11 U	11 U	12 U	**79 J**	12 U	**64 J**	12 U	24 U	12 U	-	-
Anthracene	µg/kg	**48**	**39**	**65**	**110**	**38**	**57**	**8.8 J**	**270**	**14 J**	-	-
Benzaldehyde	µg/kg	14 U	24 U	26 U	**110 J**	25 U	**69 J**	26 U	50 U	26 U	-	-
Benzo(a)anthracene	µg/kg	**740**	**180**	**200**	**520**	**160**	**180**	**24**	**970**	**66**	-	-
Benzo(a)pyrene	µg/kg	**630**	**210**	**180**	**270**	**150**	**170**	**28**	**840**	**73**	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**
Sample Location:		**BH119-18**	**SS-32**	**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**	**SS-85**	**SS-163-AS**
Sample ID:		**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**
Sample Date:		**1/18/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**9-11 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**910**	**340**	**270**	**520**	**250**	**310**	**61**	**1300**	**120**	-	-
Benzo(g,h,i)perylene	µg/kg	**340**	**93**	**150**	**300**	**130**	**120**	**33**	**530**	**77**	-	-
Benzo(k)fluoranthene	µg/kg	**380**	**130**	**53**	**110**	**95**	**80**	**21**	**450**	**33**	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	**7.5 J**	18 U	**26 J**	**110**	19 U	**59**	19 U	37 U	19 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	22 U	**110**	58 U	63 U	56 U	**73 J**	57 U	110 U	57 U	-	-
Butyl benzylphthalate (BBP)	µg/kg	12 U	23 U	25 U	27 U	24 U	25 U	24 U	48 U	25 U	-	-
Caprolactam	µg/kg	43 U	78 U	85 U	92 U	82 U	85 U	83 U	160 U	84 U	-	-
Carbazole	µg/kg	**51 J**	**42 J**	**33 J**	23 U	21 U	**44 J**	21 U	**280**	21 U	-	-
Chrysene	µg/kg	**730**	**220**	**210**	**790**	**170**	**220**	**38**	**870**	**82**	-	-
Dibenz(a,h)anthracene	µg/kg	**100**	**31**	**34**	**88**	**41**	**26**	**11 J**	**150**	**17**	-	-
Dibenzofuran	µg/kg	**17 J**	**24 J**	**88**	**270**	**18 J**	**170**	14 U	**63 J**	**17 J**	-	-
Diethyl phthalate	µg/kg	**43 J**	32 U	35 U	38 U	34 U	35 U	34 U	67 U	35 U	-	-
Dimethyl phthalate	µg/kg	20 U	14 U	16 U	17 U	15 U	16 U	16 U	30 U	16 U	-	-
Di-n-butylphthalate (DBP)	µg/kg	18 U	23 U	25 U	27 U	24 U	25 U	24 U	48 U	25 U	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	9.3 U	29 U	32 U	34 U	30 U	32 U	31 U	61 U	31 U	-	-
Fluoranthene	µg/kg	**1100**	**300**	**370**	**310**	**300**	**300**	**41**	**2100**	**130**	-	-
Fluorene	µg/kg	**6.5 J**	**17**	**42**	3.4 U	**12 J**	**33**	3.0 U	**120**	3.1 U	-	-
Hexachlorobenzene	µg/kg	2.5 U	2.9 U	3.2 U	3.5 U	3.1 U	3.2 U	3.2 U	6.2 U	3.2 U	-	-
Hexachlorobutadiene	µg/kg	6.6 U	12 U	14 U	15 U	13 U	14 U	13 U	26 U	13 U	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	**310**	**94**	**120**	**160**	**110**	**63**	**32**	**490**	**62**	-	-
Isophorone	µg/kg	15 U	12 U	14 U	15 U	13 U	14 U	13 U	26 U	13 U	-	-
Naphthalene	µg/kg	**40**	**57**	**190**	**390**	**33**	**460**	**25**	**75**	**45**	-	-
N-Nitrosodiphenylamine	µg/kg	25 U	12 U	14 U	15 U	13 U	14 U	13 U	26 U	13 U	-	-
Pentachlorophenol	µg/kg	11 U	60 UJ	66 U	71 U	63 U	66 UJ	65 U	130 U	65 U	-	-
Phenanthrene	µg/kg	**190**	**200**	**280**	**1000**	**170**	**510**	**46**	**1300**	**86**	-	-
Phenol	µg/kg	8.6 U	8.3 U	9.1 U	**180**	8.7 U	**12 J**	8.9 U	17 U	9.0 U	-	-
Pyrene	µg/kg	**830**	**300**	**320**	**320**	**250**	**340**	**30**	**1500**	**120**	-	-
Metals												
Aluminum	mg/kg	**6100**	**2400**	**9600**	**12000**	**4600**	**6000**	**3000**	**3800**	**11000**	-	-
Antimony	mg/kg	**1.2 J**	0.10 U	**0.43**	**0.57**	**0.88**	**0.29 J**	**0.82**	**0.33 J**	**0.25 J**	-	-
Arsenic	mg/kg	**15**	**4.0**	**8.2**	**27**	**14**	**6.4**	**6.8**	**6.0**	**8.6**	-	-
Barium	mg/kg	**90**	**20**	**130**	**690**	**120**	**98**	**93**	**71**	**93**	-	-
Beryllium	mg/kg	**0.49**	**0.33**	**0.73**	**2.8**	**1.2**	**0.65**	**0.35**	**0.41**	**0.68**	-	-
Cadmium	mg/kg	**0.55**	**0.13 J**	**0.46**	**0.53**	**0.35**	**0.94**	**0.44**	**0.31**	**0.20 J**	-	-
Calcium	mg/kg	**58000**	**140000**	**43000**	**38000**	**73000**	**42000**	**87000**	**96000**	**18000**	-	-
Chromium	mg/kg	**23**	**6.2**	**16**	**14**	**15**	**16**	**80**	**9.6**	**15**	-	-
Chromium III (trivalent)	mg/kg	**23**	**6.2**	**16**	**14**	**15**	**16**	**80**	**9.6**	**15**	-	-
Chromium VI (hexavalent)	mg/kg	1.4 U	0.25 U	0.27 U	0.30 U	**0.42 J**	0.28 U	0.27 U	0.26 U	**0.44 J**	-	-
Cobalt	mg/kg	**6.5**	**2.6**	**6.3**	**8.9**	**6.3**	**5.5**	**4.4**	**3.2**	**7.7**	-	-
Copper	mg/kg	**53**	**8.1**	**30**	**57**	**90**	**23**	**66**	**23**	**20**	-	-
Iron	mg/kg	**43000**	**7400**	**15000**	**13000**	**8800**	**12000**	**27000**	**8100**	**18000**	-	-
Lead	mg/kg	**38**	**4.5**	**60**	**140**	**100**	**54**	**40**	**70**	**35**	-	-
Lead - coarse fraction	mg/kg	-	-	-	**52 J**	-	**44 J**	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	**99**	-	**74**	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	**64**	-	**48**	-	-	-	-	-
Magnesium	mg/kg	**18000**	**43000**	**15000**	**5700**	**25000**	**14000**	**22000**	**38000**	**7300**	-	-
Manganese	mg/kg	**380 J**	**370**	**490**	**220**	**240**	**210**	**550**	**250**	**350**	-	-
Mercury	mg/kg	**0.23**	0.021 U	**0.11 J**	**0.27**	**0.092 J**	**0.067 J**	**0.031 J**	**0.024 J**	**0.042 J**	-	-
Nickel	mg/kg	**19**	**7.4**	**14**	**19**	**14**	**14**	**31**	**8.6**	**17**	-	-
Potassium	mg/kg	**1300**	**510**	**1000**	**730**	**660**	**750**	**590**	**650**	**1000**	-	-
Selenium	mg/kg	**2.3**	**0.32 J**	**0.72 J**	**1.1**	**0.96 J**	**0.76 J**	**0.37 J**	**0.69 J**	**0.82 J**	-	-
Silver	mg/kg	**0.093 J**	0.018 U	**0.18 J**	**0.13 J**	**0.075 J**	**0.23**	**0.091 J**	**0.060 J**	**0.053 J**	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**
Sample Location:		**BH119-18**	**SS-32**	**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**	**SS-85**	**SS-163-AS**
Sample ID:		**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**
Sample Date:		**1/18/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**9-11 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**150 J**	**130 J**	**97 J**	**640**	**170 J**	**160 J**	**100 J**	**130 J**	**91 J**	-	-
Thallium	mg/kg	**0.18 J**	**0.10 J**	**0.25**	**0.27**	**0.38**	**0.19**	**0.10 J**	**0.13 J**	**0.28**	-	-
Vanadium	mg/kg	**19**	**9.4**	**26**	**36**	**23**	**19**	**14**	**17**	**28**	-	-
Zinc	mg/kg	**270**	**31**	**100**	**120**	**180**	**100**	**39**	**73**	**67**	-	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	26 U	23 U	26 U	28 U	24 U	26 U	25 U	24 U	26 U	-	-
Aroclor-1242 (PCB-1242)	µg/kg	21 U	19 U	21 U	23 U	20 U	22 U	21 U	20 U	21 U	-	-
Aroclor-1248 (PCB-1248)	µg/kg	27 U	24 U	27 U	29 U	25 U	27 U	26 U	26 U	27 U	-	-
Aroclor-1254 (PCB-1254)	µg/kg	26 U	23 U	**41 J**	28 U	24 U	**550**	25 U	**40 J**	**760 J**	-	-
Aroclor-1260 (PCB-1260)	µg/kg	25 U	22 U	25 U	27 U	23 U	25 U	24 U	23 U	25 U	-	-
Pesticides												
4,4'-DDD	µg/kg	3.8 U	1.5 U	**4.3 J**	18 U	8.0 U	1.7 U	1.6 U	1.6 U	8.2 U	-	-
4,4'-DDE	µg/kg	1.4 U	1.5 U	**5.2 J**	18 U	8.2 U	1.7 U	1.7 U	1.6 U	**30**	-	-
4,4'-DDT	µg/kg	1.6 U	1.2 U	**2.9 J**	14 U	6.1 U	**6.6 J**	1.2 U	1.2 U	**13 J**	-	-
alpha-BHC	µg/kg	1.9 U	0.93 U	**1.9 J**	11 U	**13 J**	1.0 U	1.0 U	0.97 U	5.1 U	-	-
alpha-Chlordane	µg/kg	4.4 U	1.5 U	1.7 U	18 U	8.1 U	**1.7 J**	1.6 U	1.6 U	8.4 U	-	-
beta-BHC	µg/kg	4.5 U	1.8 U	**2.2 J**	21 U	9.4 U	**7.3 J**	**5.1 J**	1.8 U	9.6 U	-	-
delta-BHC	µg/kg	1.5 U	1.7 U	1.9 U	21 U	9.2 U	1.9 U	1.9 U	1.8 U	9.4 U	-	-
Dieldrin	µg/kg	1.0 U	1.1 U	**3.3 J**	13 U	6.0 U	**37 J**	1.2 U	1.2 U	6.1 U	-	-
Endosulfan I	µg/kg	1.5 U	1.2 U	1.3 U	15 U	6.5 U	1.4 U	1.3 U	1.3 U	6.7 U	-	-
Endosulfan II	µg/kg	2.1 U	1.5 U	1.7 U	18 U	8.0 U	1.7 U	1.6 U	1.6 U	8.2 U	-	-
Endosulfan sulfate	µg/kg	1.4 U	1.3 U	1.4 U	16 U	6.9 U	1.4 U	1.4 U	1.4 U	7.1 U	-	-
Endrin	µg/kg	1.6 U	1.9 U	2.1 U	23 U	10 U	2.2 U	2.1 U	2.0 U	11 U	-	-
Endrin aldehyde	µg/kg	2.1 U	1.3 U	1.5 U	16 U	7.1 U	**2.4 J**	1.4 U	1.4 U	7.3 U	-	-
Endrin ketone	µg/kg	1.3 U	0.91 U	0.99 U	11 U	4.8 U	1.0 U	0.98 U	0.95 U	5.0 U	-	-
gamma-BHC (lindane)	µg/kg	3.4 U	1.8 U	2.0 U	22 U	9.7 U	2.0 U	2.0 U	1.9 U	10 U	-	-
gamma-Chlordane	µg/kg	1.7 U	1.3 U	**1.8 J**	15 U	6.7 U	**1.8 J**	1.3 U	1.3 U	6.9 U	-	-
Heptachlor epoxide	µg/kg	2.8 U	1.5 U	1.6 U	18 U	7.8 U	**4.2 J**	1.6 U	1.5 U	8.0 U	-	-
Methoxychlor	µg/kg	1.4 U	6.7 U	7.3 U	80 U	36 U	7.4 U	7.2 U	7.0 U	37 U	-	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	15 U	-
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**	**on-site (EU10)**
Sample Location:		**BH119-18**	**SS-32**	**SS-78**	**SS-79**	**SS-80**	**SS-81**	**SS-82**	**SS-83**	**SS-84**	**SS-85**	**SS-163-AS**
Sample ID:		**S-38443-011818-JC-053**	**SS-38443-103118-JC-032**	**SS-38443-103118-JC-078**	**SS-38443-103118-JC-079**	**SS-38443-103118-JC-080**	**SS-38443-103118-JC-081**	**SS-38443-103118-JC-082**	**SS-38443-103118-JC-083**	**SS-38443-103118-JC-084**	**SS-38443-103118-JC-085**	**SS-38443-103118-JC-163**
Sample Date:		**1/18/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**	**10/31/2018**
Sample Depth:		**9-11 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.33-0.83 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	0.25 <
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**7.6**	0.20 U	0.23 U	**0.30 J**	0.20 U	**0.23 J**	**0.35 J**	0.21 U	0.23 U	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU10)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**
Sample Location:		**SS-164-AS**	**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**	**SS-25**	**SS-70**	**SS-71**	**SS-72**
Sample ID:		**SS-38443-103118-JC-164**	**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**	**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**
Sample Date:		**10/31/2018**	**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**	**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.25-0.75 ft BGS**	**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	-	5.3 U	0.21 U	0.20 U	0.34 U	0.22 U	-	0.23 U	**0.54 J**	0.73 U	0.85 U	0.76 U
1,1,2-Trichloroethane	µg/kg	-	5.3 U	0.36 U	0.34 U	0.58 U	0.37 U	-	0.40 U	0.45 U	1.0 U	1.2 U	1.1 U
1,1-Dichloroethane	µg/kg	-	5.3 U	0.30 U	0.29 U	0.49 U	0.31 U	-	0.34 U	0.38 U	0.62 U	0.72 U	0.65 U
1,1-Dichloroethene	µg/kg	-	5.3 U	0.50 U	0.47 U	0.80 U	0.51 U	-	0.55 U	0.62 U	0.81 U	0.94 U	0.84 U
1,2,4-Trichlorobenzene	µg/kg	-	5.3 U	0.22 U	0.21 U	0.36 U	0.23 U	-	R	0.27 U	0.51 U	0.59 U	0.53 U
1,2-Dichlorobenzene	µg/kg	-	5.3 U	0.20 U	0.19 U	0.33 U	0.21 U	-	R	0.25 U	1.0 U	1.2 U	1.0 U
1,2-Dichloroethane	µg/kg	-	5.3 U	0.27 U	0.25 U	0.43 U	0.27 U	-	0.30 U	0.33 U	0.69 U	0.80 U	0.72 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	5.3 U	0.28 U	0.27 U	0.46 U	0.29 U	-	0.32 U	0.35 U	0.76 U	0.88 U	0.79 U
1,3-Dichlorobenzene	µg/kg	-	5.3 U	0.27 U	0.25 U	0.43 U	0.27 U	-	R	0.33 U	0.73 U	0.85 U	0.76 U
1,4-Dichlorobenzene	µg/kg	-	5.3 U	0.32 U	0.30 U	0.52 U	0.33 U	-	R	0.40 U	0.79 U	0.92 U	0.82 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	-	21 U	1.2 U	1.1 U	1.9 U	1.2 U	-	1.3 U	1.5 U	3.2 U	**4.4 J**	**12 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	-	21 U	0.82 U	0.77 U	1.3 U	0.84 U	-	0.91 U	1.0 U	3.3 U	3.9 U	3.5 U
Acetone	µg/kg	-	21 U	2.8 U	2.6 U	19 U	2.9 U	-	26 U	3.5 U	19 U	**53**	**57**
Benzene	µg/kg	-	5.3 U	0.29 U	0.28 U	0.48 U	0.30 U	-	0.33 U	0.37 U	0.63 U	0.73 U	0.65 U
Carbon disulfide	µg/kg	-	5.3 U	0.19 U	0.18 U	0.31 U	0.20 U	-	0.21 U	0.24 U	1.0 U	1.2 U	1.1 U
Carbon tetrachloride	µg/kg	-	5.3 U	0.23 U	0.22 U	0.37 U	0.24 U	-	0.25 U	0.29 U	2.9 U	3.4 U	3.0 U
Chlorobenzene	µg/kg	-	5.3 U	0.30 U	0.29 U	0.49 U	0.31 U	-	0.34 U	0.38 U	0.82 U	0.95 U	0.85 U
Chloroethane	µg/kg	-	5.3 UJ	0.35 U	0.33 U	0.56 U	0.36 U	-	0.39 U	0.43 U	1.1 U	1.3 U	1.1 U
Chloroform (Trichloromethane)	µg/kg	-	**0.40 J**	0.21 U	0.20 U	0.34 U	0.22 U	-	0.23 U	0.26 U	0.71 U	0.82 U	0.73 U
cis-1,2-Dichloroethene	µg/kg	-	5.3 U	0.26 U	0.24 U	0.42 U	0.27 U	-	0.29 U	**0.39 J**	0.58 U	0.68 U	**1.6 J**
Cyclohexane	µg/kg	-	11 U	0.19 U	0.18 U	0.31 U	0.20 U	-	0.21 U	0.24 U	1.2 U	1.4 U	1.3 U
Ethylbenzene	µg/kg	-	5.3 U	**0.30 J**	0.23 U	**8.6 J**	0.26 U	-	0.27 U	0.31 U	0.94 U	1.1 U	0.98 U
Isopropyl benzene	µg/kg	-	5.3 U	0.18 U	0.17 U	**1.4 J**	0.19 U	-	0.20 U	0.23 U	0.75 U	0.86 U	0.78 U
Methyl acetate	µg/kg	-	11 U	1.1 U	1.0 U	1.7 U	1.1 U	-	1.2 U	1.3 U	3.0 U	3.5 U	3.2 U
Methyl cyclohexane	µg/kg	-	11 U	**0.25 J**	0.20 U	0.34 U	0.22 U	-	0.23 U	0.26 U	1.1 U	1.3 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/kg	-	5.3 U	0.25 U	0.23 U	0.40 U	0.26 U	-	0.27 U	0.31 U	0.73 U	0.85 U	0.76 U
Methylene chloride	µg/kg	-	16 U	14 U	14 U	19 U	16 U	-	0.24 U	0.27 U	11 U	12 U	11 U
Styrene	µg/kg	-	5.3 U	0.25 U	0.23 U	0.40 U	0.26 U	-	0.27 U	0.31 U	1.0 U	1.2 U	1.1 U
Tetrachloroethene	µg/kg	-	**0.69 J**	0.34 U	0.32 U	0.55 U	0.35 U	-	0.38 U	**1.1 J**	0.65 U	0.76 U	0.68 U
Toluene	µg/kg	-	5.3 U	**0.67 J**	**0.32 J**	**2.5 J**	0.32 U	-	0.35 U	0.39 U	0.69 U	0.80 U	0.72 U
trans-1,2-Dichloroethene	µg/kg	-	5.3 U	0.35 U	0.33 U	0.56 U	0.36 U	-	0.39 U	0.43 U	0.42 U	0.48 U	0.43 U
Trichloroethene	µg/kg	-	**36**	**0.45 J**	0.35 U	**3.5 J**	0.39 U	-	0.42 U	**67**	0.57 U	**1.7 J**	0.59 U
Trichlorofluoromethane (CFC-11)	µg/kg	-	5.3 U	0.22 U	0.21 U	0.36 U	0.23 U	-	0.24 U	0.27 U	0.97 U	1.1 U	1.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	-	5.3 U	0.45 U	0.42 U	0.73 U	0.46 U	-	0.50 U	0.56 U	1.1 U	1.3 U	1.2 U
Vinyl chloride	µg/kg	-	5.3 U	0.26 U	0.24 U	0.42 U	0.27 U	-	0.29 U	0.32 U	0.75 U	0.87 U	0.78 U
Xylenes (total)	µg/kg	-	11 U	0.37 U	0.35 U	**6.4 J**	0.38 U	-	0.41 U	0.46 U	1.4 U	1.6 U	1.5 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	23 U	22 U	30 UJ	51 U	-	23 U	22 U	43 U	44 U	43 U
2-Chlorophenol	µg/kg	-	-	9.4 U	8.8 U	12 U	21 U	-	9.5 U	8.8 U	11 U	11 U	11 U
2-Methylnaphthalene	µg/kg	-	-	**19**	**8.4**	**21**	**120**	-	**140**	**32**	**77**	**15 J**	**47**
2-Methylphenol	µg/kg	-	-	13 U	12 U	16 UJ	28 U	-	13 U	12 U	33 U	34 U	34 U
3&4-Methylphenol	µg/kg	-	-	23 U	22 U	30 UJ	51 U	-	23 U	22 U	31 U	32 U	31 U
3,3'-Dichlorobenzidine	µg/kg	-	-	21 U	19 U	R	45 U	-	21 U	19 U	46 U	47 U	47 U
Acenaphthene	µg/kg	-	-	0.87 U	0.82 U	**6.9 J**	**24**	-	0.88 U	**5.0 J**	**12 J**	3.1 U	**17**
Acenaphthylene	µg/kg	-	-	**4.0 J**	0.38 U	0.52 U	**35**	-	**6.1 J**	**5.1 J**	**13 J**	**46**	**120**
Acetophenone	µg/kg	-	-	10 U	9.9 U	14 U	23 U	-	**16 J**	**26 J**	12 U	12 U	12 U
Anthracene	µg/kg	-	-	**4.3 J**	**6.0 J**	**6.9 J**	**100**	-	**31**	**27**	**33**	**14 J**	**78**
Benzaldehyde	µg/kg	-	-	14 U	13 U	18 U	30 U	-	**24 J**	**25 J**	25 U	25 U	25 U
Benzo(a)anthracene	µg/kg	-	-	**35**	**64**	**30 J**	**360**	-	**63**	**25**	**130**	**61**	**400**
Benzo(a)pyrene	µg/kg	-	-	**28**	**60**	**25 J**	**430**	-	**35**	**33**	**120**	**80**	**380**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU10)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU11)
Sample Location:		**SS-164-AS**	**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**	**SS-25**	**SS-70**	**SS-71**	**SS-72**
Sample ID:		**SS-38443-103118-JC-164**	**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**	**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**
Sample Date:		**10/31/2018**	**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**	**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.25-0.75 ft BGS**	**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	**45**	**77**	**48 J**	**620**	-	**140**	**59**	**200**	**100**	**580**
Benzo(g,h,i)perylene	µg/kg	-	-	**27**	**41**	**24 J**	**190**	-	**38**	**27**	**85**	**100**	**190**
Benzo(k)fluoranthene	µg/kg	-	-	**14**	**31**	**16 J**	**240**	-	**41**	**28**	**67**	**28**	**190**
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	4.0 U	3.8 U	5.2 U	**36 J**	-	**33 J**	**7.4 J**	18 U	19 U	18 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	**28 J**	**23 J**	28 U	48 U	-	**91**	**630**	55 U	56 U	55 U
Butyl benzylphthalate (BBP)	µg/kg	-	-	11 U	11 U	15 U	25 U	-	12 U	11 U	**41 J**	24 U	24 U
Caprolactam	µg/kg	-	-	42 U	40 U	55 U	93 U	-	43 U	**44 J**	80 U	82 U	81 U
Carbazole	µg/kg	-	-	31 U	29 U	40 U	68 U	-	31 U	29 U	**39 J**	**25 J**	**62**
Chrysene	µg/kg	-	-	**43**	**85**	**42 J**	**470**	-	**110**	**40**	**190**	**74**	**490**
Dibenz(a,h)anthracene	µg/kg	-	-	0.75 U	**10**	0.98 UJ	**63**	-	0.76 U	0.71 U	**28**	**19**	**57**
Dibenzofuran	µg/kg	-	-	0.75 U	0.71 U	**11 J**	**68 J**	-	**32 J**	**13 J**	**25 J**	14 U	**20 J**
Diethyl phthalate	µg/kg	-	-	18 U	**21 J**	24 U	40 U	-	19 U	17 U	33 U	34 U	34 U
Dimethyl phthalate	µg/kg	-	-	19 U	18 U	25 U	43 U	-	20 U	18 U	15 U	15 U	15 U
Di-n-butylphthalate (DBP)	µg/kg	-	-	17 U	16 U	22 U	38 U	-	17 U	16 U	24 U	24 U	**27 J**
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	9.0 U	8.5 U	12 U	20 U	-	9.2 U	8.5 U	30 U	31 U	30 U
Fluoranthene	µg/kg	-	-	**46**	**67**	**86 J**	**720**	-	**90**	**52**	**270**	**62**	**740**
Fluorene	µg/kg	-	-	0.60 U	0.57 U	0.79 U	**53**	-	**20**	**6.5 J**	**14 J**	**3.8 J**	**42**
Hexachlorobenzene	µg/kg	-	-	2.4 U	2.3 U	3.1 U	5.3 U	-	2.4 U	2.3 U	3.1 U	3.1 U	3.1 U
Hexachlorobutadiene	µg/kg	-	-	6.4 U	6.0 U	8.3 U	14 U	-	**13 J**	6.0 U	13 U	13 U	13 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	**18**	**26**	**15 J**	**180**	-	**34**	**23**	**60**	**55**	**160**
Isophorone	µg/kg	-	-	15 U	14 U	19 U	33 U	-	15 U	14 U	13 U	13 U	13 U
Naphthalene	µg/kg	-	-	**12**	**5.7 J**	**20**	**110**	-	**98**	**34**	**48**	**11 J**	**44**
N-Nitrosodiphenylamine	µg/kg	-	-	24 U	23 U	31 UJ	53 U	-	24 U	23 U	13 U	13 U	13 U
Pentachlorophenol	µg/kg	-	-	10 U	9.8 U	R	23 U	-	11 U	9.8 U	62 UJ	64 UJ	63 UJ
Phenanthrene	µg/kg	-	-	**26**	**24**	**90 J**	**570**	-	**190**	**67**	**220**	**34**	**400**
Phenol	µg/kg	-	-	8.3 U	7.9 U	11 U	18 U	-	**53 J**	7.9 U	8.6 U	8.8 U	8.7 U
Pyrene	µg/kg	-	-	**59**	**100**	**73 J**	**610**	-	**78**	**56**	**240**	**90**	**760**
Metals													
Aluminum	mg/kg	-	-	**5900 J**	**3900 J**	**14000 J**	**12000 J**	-	**2100**	**3500 J**	**4500**	**9000**	**4200**
Antimony	mg/kg	-	-	**0.60 J**	**0.23 J**	**1.1 J**	**2.8 J**	-	**0.34 J**	**0.69 J**	**0.19 J**	**0.27 J**	**0.25 J**
Arsenic	mg/kg	-	-	**11**	**7.9**	**45**	**13**	-	**12**	**3.9**	**6.5**	**13**	**6.1**
Barium	mg/kg	-	-	**68 J**	**42 J**	**440 J**	**200 J**	-	**63**	**35 J**	**40**	**79**	**85**
Beryllium	mg/kg	-	-	**0.48**	**0.28**	**6.5**	**0.96**	-	**0.41**	**0.22**	**0.28**	**0.49**	**0.40**
Cadmium	mg/kg	-	-	**0.42**	**0.40**	**0.31**	**19**	-	**0.63**	**0.67**	**0.24**	**0.71**	**0.35**
Calcium	mg/kg	-	-	**87000**	**150000**	**3400**	**65000**	-	**580**	**52000**	**110000**	**63000**	**100000 J**
Chromium	mg/kg	-	-	**12**	**8.8**	**33**	**13**	**7.1**	**23**	**25**	**7.4**	**13**	**7.7**
Chromium III (trivalent)	mg/kg	-	-	**12**	**8.8**	**32**	**13**	**7.1**	**23**	-	**7.4**	**13**	**7.7**
Chromium VI (hexavalent)	mg/kg	-	-	**0.32 J**	0.26 U	**0.69 J**	1.5 U	1.6 U	0.28 U	-	0.26 U	0.27 U	0.26 U
Cobalt	mg/kg	-	-	**5.4**	**4.3**	**22**	**6.3**	-	**3.7**	**4.7**	**3.7**	**5.4**	**3.5**
Copper	mg/kg	-	-	**24**	**13**	**64**	**410**	-	**47**	**120**	**19**	**16**	**38**
Iron	mg/kg	-	-	**13000**	**9300**	**8200**	**22000**	-	**34000**	**15000**	**17000**	**14000**	**8900**
Lead	mg/kg	-	-	**27**	**18**	**34**	**120**	-	**14**	**140 J**	**35 J**	**17 J**	**160**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	**31**	-	**82**
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	**85**	-	**150**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	**35**	-	**89**
Magnesium	mg/kg	-	-	**38000**	**36000**	**820**	**32000**	-	**550**	**26000**	**50000**	**32000**	**39000 J**
Manganese	mg/kg	-	-	**470**	**710**	**46**	**420**	-	**300**	**390**	**390**	**480**	**330**
Mercury	mg/kg	-	-	**0.024 J**	**0.026 J**	**0.55**	**0.32**	-	0.019 U	**0.026 J**	**0.19**	**0.023 J**	**0.056 J**
Nickel	mg/kg	-	-	**14**	**10**	**36**	**35**	-	**25**	**19 J**	**12**	**12**	**11**
Potassium	mg/kg	-	-	**690**	**480**	**1600**	**820**	-	**170 J**	**410**	**710**	**900**	**600**
Selenium	mg/kg	-	-	**0.71 J**	**0.47 J**	**3.1**	**7.3**	-	**4.6**	0.93 U	**0.17 J**	**0.36 J**	**0.30 J**
Silver	mg/kg	-	-	**0.051 J**	**0.029 J**	**0.10 J**	**0.44**	-	**0.069 J**	**0.16 J**	**0.042 J**	**0.039 J**	**0.059 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU10)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**
Sample Location:		**SS-164-AS**	**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**	**SS-25**	**SS-70**	**SS-71**	**SS-72**
Sample ID:		**SS-38443-103118-JC-164**	**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**	**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**
Sample Date:		**10/31/2018**	**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**	**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.25-0.75 ft BGS**	**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	**130 J**	**130 J**	**450**	**210 J**	-	**130 J**	100 U	**130 J**	**170 J**	**320**
Thallium	mg/kg	-	-	**0.22**	**0.20 J**	**1.4**	**0.26**	-	**0.23 J**	**0.12 J**	**0.13 J**	**0.16 J**	**0.12 J**
Vanadium	mg/kg	-	-	**17**	**11**	**72**	**18**	-	**6.0**	**8.6**	**33**	**23**	**13**
Zinc	mg/kg	-	-	**140**	**52**	**48**	**1200**	-	**30**	**58**	**52 J**	**74 J**	**100 J**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	26 U	25 U	34 U	29 U	-	26 U	17 U	24 U	25 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	22 U	21 U	28 U	24 U	-	22 U	21 U	20 U	20 U	20 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	28 U	26 U	36 U	30 U	-	27 U	18 U	25 U	26 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	26 U	25 U	34 U	29 U	-	**37 J**	**390**	24 U	25 U	**96**
Aroclor-1260 (PCB-1260)	µg/kg	-	-	25 U	24 U	33 U	27 U	-	25 U	19 U	**23 J**	**36 J**	24 U
Pesticides													
4,4'-DDD	µg/kg	-	-	3.8 U	3.6 U	4.9 U	41 U	-	19 U	71 U	16 U	16 U	16 U
4,4'-DDE	µg/kg	-	-	1.4 U	1.3 U	1.8 U	15 U	-	6.9 U	26 U	16 U	16 U	16 U
4,4'-DDT	µg/kg	-	-	1.6 U	1.5 U	**3.1 J**	17 U	-	8.0 U	30 U	12 U	12 U	12 U
alpha-BHC	µg/kg	-	-	1.8 U	1.7 U	2.4 U	20 U	-	9.2 U	35 U	9.6 U	9.8 U	9.8 U
alpha-Chlordane	µg/kg	-	-	4.4 U	4.1 U	5.7 U	47 U	-	22 U	82 U	16 U	16 U	16 U
beta-BHC	µg/kg	-	-	4.5 U	4.2 U	5.8 U	49 U	-	22 U	84 U	18 U	19 U	19 U
delta-BHC	µg/kg	-	-	1.5 U	1.4 U	1.9 U	16 U	-	7.5 U	28 U	18 U	18 U	91 U
Dieldrin	µg/kg	-	-	1.0 U	0.97 U	1.3 U	11 U	-	5.2 U	19 U	12 U	12 U	12 U
Endosulfan I	µg/kg	-	-	1.5 U	1.4 U	1.9 U	16 U	-	7.5 U	28 U	13 U	13 U	13 U
Endosulfan II	µg/kg	-	-	2.1 U	1.9 U	2.7 U	22 U	-	10 U	39 U	16 U	16 U	16 U
Endosulfan sulfate	µg/kg	-	-	1.4 U	1.3 U	1.8 U	15 U	-	6.9 U	26 U	14 U	14 U	14 U
Endrin	µg/kg	-	-	1.6 U	1.5 U	2.1 U	17 U	-	8.0 U	30 U	20 U	20 U	20 U
Endrin aldehyde	µg/kg	-	-	2.1 U	1.9 U	**5.4 J**	22 U	-	10 U	39 U	14 U	14 U	14 U
Endrin ketone	µg/kg	-	-	1.3 U	1.2 U	1.6 U	14 U	-	6.3 U	24 U	9.4 U	9.6 U	9.6 U
gamma-BHC (lindane)	µg/kg	-	-	3.3 U	3.1 U	4.3 U	36 U	-	17 U	63 U	19 U	19 U	19 U
gamma-Chlordane	µg/kg	-	-	1.7 U	1.6 U	2.2 U	19 U	-	8.6 U	32 U	13 U	13 U	13 U
Heptachlor epoxide	µg/kg	-	-	2.8 U	2.6 U	3.6 U	30 U	-	14 U	52 U	15 U	15 U	15 U
Methoxychlor	µg/kg	-	-	**2.7 J**	1.3 U	1.8 U	15 U	-	6.9 U	26 U	69 U	71 U	70 U
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU10)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**
Sample Location:		**SS-164-AS**	**BH89-13**	**BH114-18**	**BH114-18**	**BH115-18**	**BH116-18**	**BH175-17**	**BH175-17**	**SS-25**	**SS-70**	**SS-71**	**SS-72**
Sample ID:		**SS-38443-103118-JC-164**	**S-38443-062413-SM-029**	**S-38443-011118-JC-040**	**S-38443-011118-JC-041**	**S-38443-011118-JC-039**	**S-38443-011118-JC-038**	**S-38443-121817-JC-008**	**S-38443-121817-JC-009**	**S-38443-110117-BW-011**	**SS-38443-103018-JC-070**	**SS-38443-103018-JC-071**	**SS-38443-103018-JC-072**
Sample Date:		**10/31/2018**	**6/24/2013**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**1/11/2018**	**12/18/2017**	**12/18/2017**	**11/1/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**0.25-0.75 ft BGS**	**18-20 ft BGS**	**3-5 ft BGS**	**3-5 ft BGS Duplicate**	**3-5 ft BGS**	**11-13 ft BGS**	**13-15 ft BGS**	**15.5-17.5 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.5-2.25 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	**2**	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	0.15 U	0.13 U	0.25 U	0.59 U	-	**0.13 J**	0.46 U	0.18 U	0.20 U	0.22 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**
Sample Location:		**SS-73**	**SS-74**	**SS-75**	**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**	**S-38443-100208-KMV-043**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	1.0 U	0.78 U	0.89 U	0.96 U	-	-	-	77 U	4.4 U	5.3 U	4.7 U
1,1,2-Trichloroethane	µg/kg	1.4 U	1.1 U	1.2 U	1.3 U	-	-	-	63 U	4.4 U	5.3 U	4.7 U
1,1-Dichloroethane	µg/kg	0.87 U	0.66 U	0.76 U	0.81 U	-	-	-	85 U	4.4 U	5.3 U	4.7 U
1,1-Dichloroethene	µg/kg	1.1 U	0.86 U	0.99 U	1.1 U	-	-	-	99 U	4.4 U	5.3 U	4.7 U
1,2,4-Trichlorobenzene	µg/kg	0.72 U	0.55 U	0.62 U	R	-	-	-	71 U	4.4 U	5.3 U	4.7 U
1,2-Dichlorobenzene	µg/kg	1.4 U	1.1 U	1.2 U	R	-	-	-	49 U	4.4 U	5.3 U	4.7 U
1,2-Dichloroethane	µg/kg	0.97 U	0.74 U	0.84 U	0.90 U	-	-	-	82 U	4.4 U	5.3 U	4.7 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1.1 U	0.81 U	0.93 U	0.99 U	-	-	-	82 U	4.4 U	5.3 U	4.7 U
1,3-Dichlorobenzene	µg/kg	1.0 U	0.78 U	0.89 U	R	-	-	-	100 U	4.4 U	5.3 U	4.7 U
1,4-Dichlorobenzene	µg/kg	1.1 U	0.84 U	0.96 U	R	-	-	-	74 U	4.4 U	5.3 U	4.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**5.1 J**	3.4 U	**4.2 J**	4.2 U	-	-	-	140 U	18 U	21 U	19 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.7 U	3.5 U	4.1 U	4.3 U	-	-	-	110 U	18 U	21 U	19 U
Acetone	µg/kg	**60**	20 U	**25 J**	25 U	-	-	-	270 U	18 U	R	R
Benzene	µg/kg	0.88 U	0.67 U	0.76 U	0.82 U	-	-	-	66 U	4.4 U	5.3 U	4.7 U
Carbon disulfide	µg/kg	1.5 U	1.1 U	1.3 U	1.4 U	-	-	-	49 U	4.4 U	5.3 U	4.7 U
Carbon tetrachloride	µg/kg	4.1 U	3.1 U	3.6 U	3.8 U	-	-	-	74 U	4.4 U	5.3 U	4.7 U
Chlorobenzene	µg/kg	1.2 U	0.87 U	1.0 U	1.1 U	-	-	-	82 U	4.4 U	5.3 U	4.7 U
Chloroethane	µg/kg	1.5 U	1.2 U	1.3 U	1.4 U	-	-	-	77 U	4.4 U	5.3 U	4.7 U
Chloroform (Trichloromethane)	µg/kg	0.99 U	0.75 U	0.86 U	0.92 U	-	-	-	66 U	4.4 U	5.3 U	4.7 U
cis-1,2-Dichloroethene	µg/kg	0.82 U	0.62 U	0.71 U	1.2 U	-	-	-	96 U	4.4 U	5.3 U	4.7 U
Cyclohexane	µg/kg	1.7 U	1.3 U	1.5 U	1.6 U	-	-	-	82 U	8.9 U	11 U	9.4 U
Ethylbenzene	µg/kg	1.3 U	1.0 U	1.1 U	1.2 U	-	-	-	96 U	4.4 U	5.3 U	4.7 U
Isopropyl benzene	µg/kg	1.0 U	0.79 U	0.91 U	0.97 U	-	-	-	93 U	4.4 U	5.3 U	4.7 U
Methyl acetate	µg/kg	4.3 U	3.2 U	3.7 U	4.0 U	-	-	-	210 U	8.9 U	11 U	9.4 U
Methyl cyclohexane	µg/kg	1.5 U	1.2 U	1.3 U	1.4 U	-	-	-	100 U	8.9 U	11 U	9.4 U
Methyl tert butyl ether (MTBE)	µg/kg	1.0 U	0.78 U	0.89 U	0.96 U	-	-	-	71 U	18 U	21 U	19 U
Methylene chloride	µg/kg	15 U	11 U	13 U	14 U	-	-	-	180 U	4.4 U	5.3 U	**0.65 J**
Styrene	µg/kg	1.5 U	1.1 U	1.3 U	1.4 U	-	-	-	27 U	4.4 U	5.3 U	4.7 U
Tetrachloroethene	µg/kg	0.92 U	0.70 U	0.80 U	0.85 U	-	-	-	58 U	4.4 U	5.3 U	4.7 U
Toluene	µg/kg	0.97 U	0.74 U	0.84 U	0.90 U	-	-	-	**75 J**	4.4 U	5.3 U	4.7 U
trans-1,2-Dichloroethene	µg/kg	0.59 U	0.44 U	0.51 U	0.54 U	-	-	-	96 U	4.4 U	5.3 U	4.7 U
Trichloroethene	µg/kg	**1.7 J**	0.60 U	0.69 U	**1.1 J**	-	-	-	**2400**	4.4 U	5.3 U	**10**
Trichlorofluoromethane (CFC-11)	µg/kg	1.4 U	1.0 U	1.2 U	1.3 U	-	-	-	93 U	4.4 U	5.3 U	4.7 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.6 U	1.2 U	1.4 U	1.5 U	-	-	-	63 U	4.4 U	5.3 U	4.7 U
Vinyl chloride	µg/kg	1.1 U	0.80 U	0.91 U	0.98 U	-	-	-	47 U	4.4 U	5.3 U	4.7 U
Xylenes (total)	µg/kg	2.0 U	1.5 U	1.7 U	1.9 U	-	-	-	77 U	**1.1 J**	11 U	9.4 U
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	45 U	85 U	46 U	46 U	-	-	-	22 U	160 U	330 U	160 U
2-Chlorophenol	µg/kg	11 U	21 U	11 U	12 U	-	-	-	9.1 U	54 U	110 U	54 U
2-Methylnaphthalene	µg/kg	**610**	**44**	**74**	**72**	-	-	-	**72**	7.2 U	**18**	7.2 U
2-Methylphenol	µg/kg	35 U	66 U	36 U	36 U	-	-	-	12 U	220 U	430 U	220 U
3&4-Methylphenol	µg/kg	33 U	61 U	33 U	34 U	-	-	-	22 U	-	-	-
3,3'-Dichlorobenzidine	µg/kg	49 U	91 U	49 U	50 U	-	-	-	20 U	110 U	220 U	110 U
Acenaphthene	µg/kg	**17**	**48**	**36**	3.3 U	-	-	-	0.85 U	**7.4**	**56**	7.2 U
Acenaphthylene	µg/kg	**64**	**21 J**	**56**	4.7 U	-	-	-	**6.9 J**	**25**	**45**	7.2 U
Acetophenone	µg/kg	**53 J**	23 U	13 U	13 U	-	-	-	**29 J**	110 U	220 U	110 U
Anthracene	µg/kg	**50**	**200**	**180**	2.8 U	-	-	-	**12**	**40**	**180**	7.2 U
Benzaldehyde	µg/kg	**55 J**	49 U	26 U	27 U	-	-	-	**30 J**	110 U	220 U	110 U
Benzo(a)anthracene	µg/kg	**410**	**1200**	**470**	**11 J**	-	-	-	**37**	**240**	**760**	7.2 U
Benzo(a)pyrene	µg/kg	**410**	**1400**	**440**	11 U	-	-	-	**30**	**270**	**660**	7.2 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**
Sample Location:		**SS-73**	**SS-74**	**SS-75**	**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**	**S-38443-100208-KMV-043**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**570**	**2000**	**550**	**14 J**	-	-	-	**53**	**350**	**850**	7.2 U
Benzo(g,h,i)perylene	µg/kg	**210**	**940**	**200**	**8.5 J**	-	-	-	**24**	**200**	**420**	7.2 U
Benzo(k)fluoranthene	µg/kg	**220**	**640**	**230**	8.1 U	-	-	-	**15**	**170**	**360**	7.2 U
Biphenyl (1,1-Biphenyl)	µg/kg	**56 J**	36 U	20 U	20 U	-	-	-	**14 J**	54 U	110 U	54 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	58 U	110 U	**69 J**	59 U	-	-	-	54 U	54 U	110 U	54 U
Butyl benzylphthalate (BBP)	µg/kg	25 U	47 U	25 U	26 U	-	-	-	11 U	54 U	110 U	54 U
Caprolactam	µg/kg	85 U	160 U	86 U	87 U	-	-	-	41 U	360 U	720 U	360 U
Carbazole	µg/kg	**46 J**	**120**	**83**	22 U	-	-	-	30 U	54 U	**78 J**	54 U
Chrysene	µg/kg	**510**	**1300**	**480**	**17**	-	-	-	**54**	**250**	**770**	7.2 U
Dibenz(a,h)anthracene	µg/kg	**74**	**220**	**61**	8.0 U	-	-	-	0.73 U	**36**	**110**	7.2 U
Dibenzofuran	µg/kg	**150**	**49 J**	**54 J**	**24 J**	-	-	-	**12 J**	54 U	110 U	54 U
Diethyl phthalate	µg/kg	35 U	66 U	36 U	36 U	-	-	-	18 U	54 U	110 U	54 U
Dimethyl phthalate	µg/kg	16 U	30 U	16 U	16 U	-	-	-	19 U	54 U	110 U	54 U
Di-n-butylphthalate (DBP)	µg/kg	25 U	47 U	25 U	26 U	-	-	-	17 U	54 U	110 U	54 U
Di-n-octyl phthalate (DnOP)	µg/kg	32 U	59 U	32 U	33 U	-	-	-	8.8 U	54 U	110 U	54 U
Fluoranthene	µg/kg	**400**	**2000**	**830**	**16 J**	-	-	-	**75**	**400**	**1500**	7.2 U
Fluorene	µg/kg	**23**	**56**	**85**	3.2 U	-	-	-	**8.5**	**9.8**	**59**	7.2 U
Hexachlorobenzene	µg/kg	3.2 U	6.0 U	3.3 U	3.3 U	-	-	-	2.3 U	7.2 U	14 U	7.2 U
Hexachlorobutadiene	µg/kg	14 U	25 U	14 U	14 U	-	-	-	6.2 U	54 U	110 U	54 U
Indeno(1,2,3-cd)pyrene	µg/kg	**190**	**910**	**190**	8.6 U	-	-	-	**17**	**190**	**390**	7.2 U
Isophorone	µg/kg	14 U	25 U	14 U	14 U	-	-	-	14 U	54 U	110 U	54 U
Naphthalene	µg/kg	**400**	**33**	**50**	**41**	-	-	-	**77**	7.2 U	**25**	7.2 U
N-Nitrosodiphenylamine	µg/kg	14 U	25 U	14 U	14 U	-	-	-	23 U	54 U	110 U	54 U
Pentachlorophenol	µg/kg	66 UJ	120 UJ	67 UJ	67 UJ	-	-	-	10 U	160 U	330 U	160 U
Phenanthrene	µg/kg	**440**	**900**	**600**	**60**	-	-	-	**87**	**130**	**850**	7.2 U
Phenol	µg/kg	9.1 U	17 U	9.2 U	9.3 U	-	-	-	8.1 U	54 U	110 U	54 U
Pyrene	µg/kg	**460**	**1800**	**860**	**19**	-	-	-	**77**	**340**	**1300**	7.2 U
Metals												
Aluminum	mg/kg	**4100**	**3300**	**11000**	**4500**	-	-	-	**4000 J**	**5640**	**6450**	**1420**
Antimony	mg/kg	**0.19 J**	**0.39 J**	**2.4 J**	**0.23 J**	-	-	-	**0.30 J**	6.5 UJ	**1.7 J**	6.5 UJ
Arsenic	mg/kg	**5.2**	**7.1**	**11**	**8.1**	-	-	-	**11**	**5.8**	**10.6**	**3.2**
Barium	mg/kg	**54**	**60**	**99**	**240**	-	-	-	**69 J**	**35.6**	**88.3**	**12.7 J**
Beryllium	mg/kg	**0.37**	**0.23**	**1.1**	**0.62**	-	-	-	**0.83**	**0.21 J**	**0.34 J**	0.54 U
Cadmium	mg/kg	**1.0**	**1.0**	**0.21**	**0.61**	-	-	-	**0.24**	0.54 U	**0.74**	0.54 U
Calcium	mg/kg	**150000**	**99000**	**36000 J**	**28000**	-	-	-	**33000**	**54000 J**	**28900 J**	**162000 J**
Chromium	mg/kg	**7.2**	**24**	**15**	**12**	-	-	-	**26**	**7.9**	**18.8**	**3.2**
Chromium III (trivalent)	mg/kg	**7.2**	**24**	**15**	**12**	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.28 U	0.26 U	1.4 U	**0.60 J**	-	-	-	-	-	-	-
Cobalt	mg/kg	**3.5**	**3.8**	**6.9**	**6.2**	-	-	-	**6.6**	**3.7 J**	**7.4**	**1.7 J**
Copper	mg/kg	**11**	**39**	**85**	**25**	-	-	-	**51**	**12.1**	**325**	**6.0**
Iron	mg/kg	**8200**	**20000**	**25000**	**12000**	-	-	-	**21000**	**10100**	**63700**	**4640**
Lead	mg/kg	**19 J**	**41 J**	**71**	**51 J**	-	-	-	**31 J**	**15.8 J**	**132 J**	**2.5 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**83000**	**32000**	**15000 J**	**12000**	-	-	-	**4400**	**28100**	**11000**	**52800**
Manganese	mg/kg	**280**	**390**	**290**	**550**	-	-	-	**470**	**225 J**	**734 J**	**208 J**
Mercury	mg/kg	**0.037 J**	**0.15**	**0.85**	**0.18**	-	-	-	**0.082 J**	**0.047 J**	**0.36**	0.11 U
Nickel	mg/kg	**7.6**	**20**	**19**	**17**	-	-	-	**23 J**	**10.4**	**17.8**	**4.2 J**
Potassium	mg/kg	**660**	**480**	**1300**	**700**	-	-	-	**310**	**542 J**	**783 J**	**346 J**
Selenium	mg/kg	**0.20 J**	**0.19 J**	**0.50 J**	**0.45 J**	-	-	-	**2.6**	27.0 U	27.1 U	27.0 U
Silver	mg/kg	**0.044 J**	**0.11 J**	**0.097 J**	**0.078 J**	-	-	-	**0.071 J**	1.1 U	1.1 U	1.1 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**
Sample Location:		**SS-73**	**SS-74**	**SS-75**	**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**	**S-38443-100208-KMV-043**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**240**	**120 J**	**590**	**78 J**	-	-	-	170 U	**101 J**	543 U	**145 J**
Thallium	mg/kg	**0.13 J**	0.095 U	**0.24**	**0.17 J**	-	-	-	**0.39 J**	0.15 U	0.17 U	0.11 U
Vanadium	mg/kg	**12**	**15**	**28**	**16**	-	-	-	**14**	**14.3 J**	**36.2 J**	**5.5 J**
Zinc	mg/kg	**38 J**	**88 J**	**100 J**	**93 J**	-	-	-	**40**	**36.2 J**	**298 J**	**17.2 J**
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	25 U	24 U	26 U	26 U	-	-	-	18 U	36 U	36 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	21 U	20 U	21 U	22 U	-	-	-	22 U	36 U	36 U	36 U
Aroclor-1248 (PCB-1248)	µg/kg	27 U	25 U	27 U	27 U	-	-	-	19 U	36 U	36 U	36 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	**140**	**910**	26 U	-	-	-	**33 J**	36 U	**20 J**	36 U
Aroclor-1260 (PCB-1260)	µg/kg	24 U	23 U	25 U	25 U	-	-	-	20 U	36 U	36 U	36 U
Pesticides												
4,4'-DDD	µg/kg	16 U	15 U	17 U	17 U	-	-	-	36 U	92 U	92 U	9.2 U
4,4'-DDE	µg/kg	17 U	16 U	17 U	17 U	-	-	-	13 U	**24 J**	**43 J**	9.2 U
4,4'-DDT	µg/kg	13 U	12 U	13 U	13 U	-	-	-	15 U	92 UJ	92 UJ	9.2 UJ
alpha-BHC	µg/kg	10 U	9.4 U	10 U	10 U	-	-	-	18 U	92 U	92 U	9.2 U
alpha-Chlordane	µg/kg	17 U	16 U	17 U	17 U	-	-	-	42 U	92 U	92 U	9.2 U
beta-BHC	µg/kg	19 U	18 U	19 U	20 U	-	-	-	43 U	92 U	92 U	9.2 U
delta-BHC	µg/kg	19 U	17 U	19 U	19 U	-	-	-	14 U	92 U	92 U	9.2 U
Dieldrin	µg/kg	12 U	11 U	12 U	12 U	-	-	-	9.9 U	92 U	92 U	9.2 U
Endosulfan I	µg/kg	13 U	12 U	13 U	14 U	-	-	-	14 U	92 U	92 U	9.2 U
Endosulfan II	µg/kg	16 U	15 U	17 U	17 U	-	-	-	20 U	92 U	92 U	9.2 U
Endosulfan sulfate	µg/kg	14 U	13 U	14 U	15 U	-	-	-	13 U	92 U	92 U	9.2 U
Endrin	µg/kg	21 U	20 U	21 U	22 U	-	-	-	15 U	92 U	92 U	9.2 U
Endrin aldehyde	µg/kg	15 U	14 U	15 U	15 U	-	-	-	20 U	92 U	92 U	9.2 U
Endrin ketone	µg/kg	9.9 U	9.2 U	10 U	10 U	-	-	-	12 U	92 U	92 U	9.2 U
gamma-BHC (lindane)	µg/kg	20 U	19 U	20 U	20 U	-	-	-	32 U	92 U	92 U	9.2 U
gamma-Chlordane	µg/kg	14 U	13 U	14 U	14 U	-	-	-	16 U	**29 J**	92 U	9.2 U
Heptachlor epoxide	µg/kg	16 U	15 U	16 U	16 U	-	-	-	26 U	92 U	92 U	9.2 U
Methoxychlor	µg/kg	73 U	68 U	73 U	74 U	-	-	-	13 U	180 UJ	180 UJ	18 UJ
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	17 U	-	-	-	22 U	22 U	22 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	9.4 U	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	**150**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	**7.1**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	**27**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	0.23 U	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**1.2 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**0.51 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**0.85 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**4.5 J**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	0.15 U	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**2.3 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	**0.27 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	**0.66 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**0.63 J**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	**0.39 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	**1.1**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**
Sample Location:		**SS-73**	**SS-74**	**SS-75**	**SS-76**	**SS-77**	**SS-165-AS**	**SS-166-AS**	**TP-13**	**TT-11**	**TT-11**	**TT-11**
Sample ID:		**SS-38443-103018-JC-073**	**SS-38443-103018-JC-074**	**SS-38443-103018-JC-075**	**SS-38443-103018-JC-076**	**SS-38443-103018-JC-077**	**SS-38443-103018-JC-165**	**SS-38443-103018-JC-166**	**S-38443-110117-BW-012**	**S-38443-100208-KMV-041**	**S-38443-100208-KMV-042**	**S-38443-100208-KMV-043**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/1/2017**	**10/2/2008**	**10/2/2008**	**10/2/2008**
Sample Depth:		**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0-2 ft BGS**	**0.5-2.5 ft BGS**	**0.5-1 ft BGS**	**0.5-1 ft BGS**	**8-10 ft BGS**	**5 ft BGS**	**10 ft BGS**	**21 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	**0.17 J**	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	**18 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	**51 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**14 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**32 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	**12 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	**31 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	**19 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	**2.6 J**	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**0.21 J**	0.20 U	**0.27 J**	**0.22 J**	-	-	-	0.50 U	0.54 U	0.54 U	0.54 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	**92.5**	**92.2**	**92.5**

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**
Sample Location:		**TT-12**	**TT-12**	**TT-12**	**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**	**SS-62**	**SS-63**
Sample ID:		**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**	**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**	**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**21 ft BGS**	**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.24 U	0.25 U	0.21 U	1.5 U	0.84 U
1,1,2-Trichloroethane	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.40 U	0.42 U	0.35 U	2.1 U	1.2 U
1,1-Dichloroethane	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	**1.9 J**	5.2 U	0.34 U	0.36 U	0.30 U	**1.3 J**	0.71 U
1,1-Dichloroethene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.56 U	0.58 U	0.49 U	1.6 U	0.93 U
1,2,4-Trichlorobenzene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.25 U	0.26 UJ	0.22 U	R	0.59 U
1,2-Dichlorobenzene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.23 U	0.24 UJ	0.20 U	R	1.1 U
1,2-Dichloroethane	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.30 U	0.31 U	0.26 U	1.4 U	0.79 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.32 U	0.33 U	0.28 U	1.6 U	0.88 U
1,3-Dichlorobenzene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.30 U	0.31 UJ	0.26 U	R	0.84 U
1,4-Dichlorobenzene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.36 U	0.38 UJ	0.31 U	R	0.91 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	18 U	17 U	16 U	**9.8 J**	**16 J**	**6.1 J**	21 U	1.3 U	12 U	1.1 U	6.5 U	**5.6 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	18 U	17 U	16 U	21 U	26 U	20 U	21 U	0.92 U	0.96 U	0.80 U	6.8 U	3.8 U
Acetone	µg/kg	R	17 U	16 U	94 U	81 U	39 U	21 U	3.2 U	**55 J**	2.8 U	38 U	**86**
Benzene	µg/kg	4.4 U	4.2 U	4.0 U	**0.32 J**	**1.6 J**	4.9 U	5.2 U	0.33 U	**0.98 J**	0.29 U	1.3 U	0.72 U
Carbon disulfide	µg/kg	4.4 U	4.2 U	4.0 U	**2.8 J**	**0.58 J**	4.9 U	5.2 U	0.22 U	**1.2 J**	0.19 U	2.1 U	1.2 U
Carbon tetrachloride	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.26 U	0.27 U	0.22 U	5.9 U	3.3 U
Chlorobenzene	µg/kg	4.4 U	4.2 U	**0.57 J**	5.3 U	**2.1 J**	**1.4 J**	5.2 U	0.34 U	0.36 U	0.30 U	1.7 U	0.94 U
Chloroethane	µg/kg	4.4 U	4.2 U	4.0 U	5.3 UJ	6.4 UJ	4.9 U	5.2 U	0.39 U	0.41 U	0.34 U	2.2 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	4.4 U	4.2 U	4.0 U	**0.34 J**	6.4 U	4.9 U	5.2 U	0.24 U	0.25 U	0.21 U	1.4 U	0.81 U
cis-1,2-Dichloroethene	µg/kg	4.4 U	4.2 U	**0.30 J**	5.3 U	6.4 U	4.9 U	5.2 U	0.29 U	**0.79 J**	0.25 U	**1.2 J**	0.67 U
Cyclohexane	µg/kg	8.9 U	8.5 U	8.0 U	11 U	**1.1 J**	9.8 U	10 U	**0.36 J**	**0.37 J**	0.19 U	2.5 U	1.4 U
Ethylbenzene	µg/kg	4.4 U	4.2 U	4.0 U	**1.4 J**	6.4 U	**0.95 J**	5.2 U	0.28 U	**0.37 J**	0.24 U	1.9 U	1.1 U
Isopropyl benzene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.21 U	**1.3 J**	0.18 U	1.5 U	0.86 U
Methyl acetate	µg/kg	8.9 U	8.5 U	8.0 U	11 U	13 U	9.8 U	10 U	1.2 U	1.3 U	1.1 U	6.2 U	3.5 U
Methyl cyclohexane	µg/kg	8.9 U	8.5 U	8.0 U	11 U	**2.7 J**	9.8 U	10 U	**0.42 J**	**0.83 J**	0.21 U	2.2 U	1.3 U
Methyl tert butyl ether (MTBE)	µg/kg	18 U	17 U	16 U	5.3 U	6.4 U	4.9 U	5.2 U	0.28 U	0.29 U	0.24 U	1.5 U	0.84 U
Methylene chloride	µg/kg	4.4 U	4.2 U	4.0 U	16 U	21 U	7.7 U	7.9 U	16 U	0.26 U	0.63 U	22 U	12 U
Styrene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.28 U	0.29 U	0.24 U	2.1 U	1.2 U
Tetrachloroethene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.38 U	0.40 U	0.33 U	1.3 U	0.75 U
Toluene	µg/kg	4.4 U	4.2 U	**0.75 J**	5.3 U	6.4 U	4.9 U	**0.51 J**	**0.36 J**	**0.52 J**	0.31 U	1.4 U	0.80 U
trans-1,2-Dichloroethene	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.39 U	0.41 U	0.34 U	0.85 U	0.48 U
Trichloroethene	µg/kg	4.4 U	4.2 U	**1.1 J**	5.3 U	6.4 U	4.9 U	**0.47 J**	**12**	0.44 U	0.37 U	1.2 U	0.65 U
Trichlorofluoromethane (CFC-11)	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.25 U	0.26 U	0.22 U	2.0 U	1.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	4.9 U	5.2 U	0.51 U	0.53 U	0.44 U	2.3 U	1.3 U
Vinyl chloride	µg/kg	4.4 U	4.2 U	4.0 U	5.3 U	6.4 U	**1.7 J**	5.2 U	0.29 U	0.30 U	0.25 U	1.5 U	0.86 U
Xylenes (total)	µg/kg	8.9 U	**1.0 J**	8.0 U	11 U	**4.0 J**	**1.2 J**	10 U	0.41 U	**1.4 J**	0.36 U	2.9 U	1.6 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	170 U	160 U	170 U	-	-	-	-	49 U	62 U	23 U	46 U	48 U
2-Chlorophenol	µg/kg	55 U	54 U	55 U	-	-	-	-	20 U	25 U	9.4 U	12 U	12 U
2-Methylnaphthalene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	**39**	**270**	0.57 U	**18**	**15 J**
2-Methylphenol	µg/kg	220 U	220 U	220 U	-	-	-	-	27 U	34 U	13 U	36 U	37 U
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	49 U	**91 J**	23 U	33 U	35 U
3,3'-Dichlorobenzidine	µg/kg	110 U	110 U	110 U	-	-	-	-	45 U	55 U	21 U	50 U	51 U
Acenaphthene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	**38**	**50**	0.87 U	**11 J**	3.4 U
Acenaphthylene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	**34**	1.1 U	**4.3 J**	**110**	4.8 U
Acetophenone	µg/kg	110 U	110 U	110 U	-	-	-	-	23 U	**56 J**	11 U	13 U	13 U
Anthracene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	**240**	**40**	0.90 U	**54**	2.9 U
Benzaldehyde	µg/kg	110 U	110 U	110 U	-	-	-	-	30 U	**47 J**	14 U	27 U	28 U
Benzo(a)anthracene	µg/kg	**14**	**35**	**15**	-	-	-	-	**860**	**15 J**	**14**	**610**	**5.3 J**
Benzo(a)pyrene	µg/kg	**13**	**36**	**14**	-	-	-	-	**770**	2.0 U	**16**	**750**	11 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**
Sample Location:		**TT-12**	**TT-12**	**TT-12**	**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**	**SS-62**	**SS-63**
Sample ID:		**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**	**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**	**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**21 ft BGS**	**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	**15**	**39**	**18**	-	-	-	-	**1100**	1.8 U	**23**	**1100**	**9.4 J**
Benzo(g,h,i)perylene	µg/kg	**14**	**21**	**11**	-	-	-	-	**250**	1.1 U	**13**	**510**	**9.4 J**
Benzo(k)fluoranthene	µg/kg	**7.6**	**18**	**7.7**	-	-	-	-	**480**	2.1 U	**8.5**	**390**	8.3 U
Biphenyl (1,1-Biphenyl)	µg/kg	55 U	54 U	55 U	-	-	-	-	8.7 U	**86 J**	4.0 U	20 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	55 U	54 U	55 U	-	-	-	-	**620**	**140 J**	51 U	59 U	**83 J**
Butyl benzylphthalate (BBP)	µg/kg	55 U	54 U	55 U	-	-	-	-	25 U	31 U	11 U	25 U	26 U
Caprolactam	µg/kg	370 U	360 U	370 U	-	-	-	-	91 U	110 U	42 U	87 U	90 U
Carbazole	µg/kg	55 U	54 U	55 U	-	-	-	-	67 U	83 U	31 U	**51 J**	23 U
Chrysene	µg/kg	**13**	**32**	**15**	-	-	-	-	**870**	**30**	**16**	**730**	**10 J**
Dibenz(a,h)anthracene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	**60**	2.0 U	0.76 U	**130**	8.3 U
Dibenzofuran	µg/kg	55 U	54 U	55 U	-	-	-	-	**26 J**	**49 J**	0.76 U	15 U	16 U
Diethyl phthalate	µg/kg	55 U	54 U	55 U	-	-	-	-	**42 J**	49 U	56 U	36 U	37 U
Dimethyl phthalate	µg/kg	55 U	54 U	55 U	-	-	-	-	42 U	52 U	20 U	16 U	17 U
Di-n-butylphthalate (DBP)	µg/kg	55 U	54 U	55 U	-	-	-	-	37 U	**50 J**	**26 J**	25 U	26 U
Di-n-octyl phthalate (DnOP)	µg/kg	55 U	54 U	55 U	-	-	-	-	20 U	24 U	9.1 U	32 U	33 U
Fluoranthene	µg/kg	**24**	**43**	**25**	-	-	-	-	**1800**	**55**	**26**	**960**	**5.6 J**
Fluorene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	**51**	**100**	0.61 U	**14 J**	3.3 U
Hexachlorobenzene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	5.2 U	6.5 U	2.4 U	3.3 U	3.4 U
Hexachlorobutadiene	µg/kg	55 U	54 U	55 U	-	-	-	-	14 U	17 U	6.4 U	14 U	14 U
Indeno(1,2,3-cd)pyrene	µg/kg	**8.8**	**20**	**8.8**	-	-	-	-	**260**	1.1 U	**11**	**470**	8.8 U
Isophorone	µg/kg	55 U	54 U	55 U	-	-	-	-	32 U	40 U	15 U	14 U	14 U
Naphthalene	µg/kg	7.4 U	7.2 U	7.4 U	-	-	-	-	**39**	**240**	0.94 U	**17**	**6.1 J**
N-Nitrosodiphenylamine	µg/kg	55 U	54 U	55 U	-	-	-	-	52 U	65 U	24 U	14 U	14 U
Pentachlorophenol	µg/kg	170 U	160 U	170 U	-	-	-	-	23 U	28 U	10 U	67 UJ	69 UJ
Phenanthrene	µg/kg	**11**	**15**	**13**	-	-	-	-	**740**	**200**	**14**	**200**	**28**
Phenol	µg/kg	55 U	54 U	55 U	-	-	-	-	18 U	23 U	8.4 U	9.2 U	9.6 U
Pyrene	µg/kg	**21**	**40**	**24**	-	-	-	-	**1400**	**92**	**22**	**1000**	**7.0 J**
Metals													
Aluminum	mg/kg	**5330**	**1980**	**1240**	-	-	-	-	**10000 J**	**2000**	**9000 J**	**4600**	**2000**
Antimony	mg/kg	6.7 UJ	6.5 UJ	6.6 UJ	-	-	-	-	**2.1 J**	**1.2**	**0.48 J**	**0.27 J**	**0.19 J**
Arsenic	mg/kg	**6.0**	**3.9**	**2.7**	-	-	-	-	**13**	**4.4**	**7.5**	**6.2**	**2.4**
Barium	mg/kg	**68.5**	**37.6**	**15.1 J**	-	-	-	-	**220 J**	**26**	**68**	**99**	**130**
Beryllium	mg/kg	**0.22 J**	**0.12 J**	**0.051 J**	-	-	-	-	**0.90**	**0.11 J**	**0.51**	**0.59**	**0.23**
Cadmium	mg/kg	**0.18 J**	**0.099 J**	**0.057 J**	-	-	-	-	**2.1**	**1.5**	**0.20**	**0.23**	**0.24**
Calcium	mg/kg	**54800 J**	**88900 J**	**74800 J**	-	-	-	-	**36000**	**2600**	**33000**	**110000 J**	**25000**
Chromium	mg/kg	**8.2**	**3.8**	**2.4**	-	-	-	-	**22**	**83**	**16**	**9.7**	**39**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	**22**	**83**	**16**	**9.7**	**39**
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	1.5 U	0.30 U	1.4 U	0.28 U	0.29 U
Cobalt	mg/kg	**4.0 J**	**2.3 J**	**1.5 J**	-	-	-	-	**7.1**	**3.2**	**6.8**	**4.9**	**2.8**
Copper	mg/kg	**13.8**	**9.4**	**7.6**	-	-	-	-	**220**	**52**	**12 J**	**18**	**28**
Iron	mg/kg	**11700**	**6020**	**4060**	-	-	-	-	**23000**	**38000**	**17000**	**9300**	**4800**
Lead	mg/kg	**27.2 J**	**16.5 J**	**6.3 J**	-	-	-	-	**180**	**34**	**12**	**110**	**35 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**27500**	**31900**	**30300**	-	-	-	-	**18000**	**910**	**17000**	**46000 J**	**9100**
Manganese	mg/kg	**271 J**	**164 J**	**101 J**	-	-	-	-	**750**	**2600**	**500**	**230**	**110**
Mercury	mg/kg	**0.12**	**0.087 J**	**0.063 J**	-	-	-	-	**0.12 J**	0.020 U	0.018 U	**0.41**	0.023 U
Nickel	mg/kg	**11.6**	**6.0**	**4.0 J**	-	-	-	-	**29**	**39**	**13**	**13**	**8.6**
Potassium	mg/kg	**939 J**	**437 J**	**250 J**	-	-	-	-	**1300**	**86 J**	**700**	**870**	**550**
Selenium	mg/kg	27.7 U	27.1 U	27.7 U	-	-	-	-	**1.1**	**0.14 J**	**0.83 J**	**0.45 J**	**0.26 J**
Silver	mg/kg	1.1 U	1.1 U	1.1 U	-	-	-	-	**0.21**	**0.13 J**	**0.030 J**	**0.11 J**	**0.025 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU11)**	**on-site (EU11)**	**on-site (EU11)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**
Sample Location:		**TT-12**	**TT-12**	**TT-12**	**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**	**SS-62**	**SS-63**
Sample ID:		**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**	**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**	**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**21 ft BGS**	**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	**883**	**683**	**291 J**	-	-	-	-	**700**	61 U	**120 J**	**140 J**	**85 J**
Thallium	mg/kg	0.17 U	0.11 U	0.11 U	-	-	-	-	**0.25**	0.057 U	**0.16 J**	**0.17 J**	0.052 U
Vanadium	mg/kg	**14.0 J**	**6.4 J**	**4.6 J**	-	-	-	-	**27**	**5.0**	**26**	**14**	**12**
Zinc	mg/kg	**54.6 J**	**26.4 J**	**16.4 J**	-	-	-	-	**440**	**42**	**40 J**	**80 J**	**28 J**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	37 U	36 U	37 U	-	-	-	-	29 U	28 U	26 U	26 U	27 U
Aroclor-1242 (PCB-1242)	µg/kg	37 U	36 U	37 U	-	-	-	-	24 U	23 U	21 U	22 U	22 U
Aroclor-1248 (PCB-1248)	µg/kg	37 U	36 U	37 U	-	-	-	-	30 U	29 U	27 U	28 U	28 U
Aroclor-1254 (PCB-1254)	µg/kg	37 U	36 U	37 U	-	-	-	-	**150**	28 U	26 U	**210**	27 U
Aroclor-1260 (PCB-1260)	µg/kg	37 U	36 U	37 U	-	-	-	-	28 U	27 U	25 U	25 U	26 U
Pesticides													
4,4'-DDD	µg/kg	19 U	18 U	9.4 U	-	-	-	-	4.1 U	4.1 U	**5.0 J**	1.7 U	1.7 U
4,4'-DDE	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.5 U	1.5 U	1.3 U	1.7 U	1.8 U
4,4'-DDT	µg/kg	19 UJ	18 UJ	9.4 UJ	-	-	-	-	1.8 U	1.7 U	1.5 U	1.3 U	1.3 U
alpha-BHC	µg/kg	19 U	18 U	9.4 U	-	-	-	-	2.0 U	2.0 U	1.7 U	1.0 U	1.1 U
alpha-Chlordane	µg/kg	19 U	18 U	9.4 U	-	-	-	-	4.8 U	4.7 U	4.2 U	1.7 U	1.8 U
beta-BHC	µg/kg	19 U	18 U	9.4 U	-	-	-	-	4.9 U	4.8 U	4.3 U	2.0 U	2.0 U
delta-BHC	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.6 U	32 U	1.4 U	1.9 U	2.0 U
Dieldrin	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.1 U	1.1 U	0.98 U	1.3 U	1.3 U
Endosulfan I	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.6 U	1.6 U	1.4 U	1.4 U	1.4 U
Endosulfan II	µg/kg	19 U	18 U	9.4 U	-	-	-	-	2.3 U	2.2 U	2.0 U	1.7 U	1.7 U
Endosulfan sulfate	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.5 U	30 U	1.3 U	1.5 U	1.5 U
Endrin	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.8 U	1.7 U	1.5 U	2.2 U	2.2 U
Endrin aldehyde	µg/kg	19 U	18 U	9.4 U	-	-	-	-	2.3 U	45 UJ	2.0 U	1.5 U	1.5 U
Endrin ketone	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.4 U	1.4 U	1.2 U	1.0 U	1.0 U
gamma-BHC (lindane)	µg/kg	19 U	18 U	9.4 U	-	-	-	-	3.6 U	3.6 U	3.2 U	2.1 U	2.1 U
gamma-Chlordane	µg/kg	19 U	18 U	9.4 U	-	-	-	-	1.9 U	1.9 U	1.6 U	1.4 U	1.4 U
Heptachlor epoxide	µg/kg	19 U	18 U	9.4 U	-	-	-	-	3.0 U	3.0 U	2.6 U	1.7 U	1.7 U
Methoxychlor	µg/kg	37 UJ	36 UJ	18 UJ	-	-	-	-	**1.5 NJ**	1.5 U	**5.5 J**	7.5 U	7.7 U
Herbicides													
2,4,5-TP (Silvex)	µg/kg	22 U	22 U	22 U	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	**4.0 J**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	**79 J**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	**1.7 J**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	**4.8 J**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	0.21 UJ	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	0.22 UJ	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	0.097 UJ	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	**0.61 J**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	0.24 UJ	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	**0.37 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	0.076 U	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	0.064 U	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	0.20 UJ	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	0.073 U	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	**0.69 J**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU11)	on-site (EU11)	on-site (EU11)	on-site (EU12)	on-site (EU12)	on-site (EU12)	on-site (EU12)	on-site (EU12)	on-site (EU12)	on-site (EU12)	on-site (EU12)	on-site (EU12)
Sample Location:		**TT-12**	**TT-12**	**TT-12**	**BH83-13**	**BH83-13**	**BH84-13**	**BH84-13**	**BH111-18**	**BH112-17**	**BH113-18**	**SS-62**	**SS-63**
Sample ID:		**S-38443-100208-KMV-038**	**S-38443-100208-KMV-039**	**S-38443-100208-KMV-040**	**S-38443-062413-SM-030**	**S-38443-062413-SM-041**	**S-38443-062613-JT-048**	**S-38443-062613-JT-049**	**S-38443-011118-JC-042**	**S-38443-121917-JC-014**	**S-38443-010318-JC-026**	**SS-38443-103018-JC-062**	**SS-38443-103018-JC-063**
Sample Date:		**10/2/2008**	**10/2/2008**	**10/2/2008**	**6/24/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/11/2018**	**12/19/2017**	**1/3/2018**	**10/30/2018**	**10/30/2018**
Sample Depth:		**5 ft BGS**	**10 ft BGS**	**21 ft BGS**	**5-7.5 ft BGS**	**20.2-22.2 ft BGS**	**2-4 ft BGS**	**19-21 ft BGS**	**7.5-9.5 ft BGS**	**13-15 ft BGS**	**9-11 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	0.12 U	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	**5.8 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	**9.8 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	**1.8 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	**4.0 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	**3.5 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	**0.94 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	**7.3 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	**0.45 J**	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	1 <	1 <	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.55 U	**0.51 J**	0.55 U	-	-	-	-	**1.5**	**0.14 J**	**0.074 J**	0.21 U	0.25 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**90.2**	**92.2**	**90.3**	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**
Sample Location:		**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**	**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS Duplicate**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	18 UJ	33 U	1.1 U	0.71 U	0.93 U	0.68 U	0.78 U	-	-	12 U	14 UJ
1,1,2-Trichloroethane	µg/kg	16 UJ	30 U	1.6 UJ	0.98 U	1.3 U	0.93 U	1.1 U	-	-	12 UJ	14 UJ
1,1-Dichloroethane	µg/kg	11 UJ	21 UJ	0.95 U	0.60 U	0.79 U	0.57 U	0.66 U	-	-	12 U	14 UJ
1,1-Dichloroethene	µg/kg	19 UJ	35 UJ	1.2 U	0.78 U	1.0 U	0.74 U	0.86 U	-	-	12 U	14 UJ
1,2,4-Trichlorobenzene	µg/kg	170 UJ	310 U	R	0.49 U	0.65 U	0.47 U	0.54 U	-	-	12 UJ	R
1,2-Dichlorobenzene	µg/kg	26 UJ	49 U	R	0.96 U	1.3 U	0.92 U	1.1 U	-	-	12 UJ	R
1,2-Dichloroethane	µg/kg	15 UJ	28 U	1.1 U	0.67 U	0.88 U	0.64 U	0.73 U	-	-	12 U	14 UJ
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	10 UJ	19 UJ	1.2 U	0.74 U	0.97 U	0.70 U	0.81 U	-	-	12 U	14 UJ
1,3-Dichlorobenzene	µg/kg	26 UJ	49 U	R	0.71 U	0.93 U	0.67 U	0.77 U	-	-	12 UJ	**2.4 J**
1,4-Dichlorobenzene	µg/kg	21 UJ	40 U	R	0.76 U	1.0 U	0.73 U	0.84 U	-	-	**2.6 J**	**8.6 J**
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	200 UJ	**380 J**	4.9 UJ	3.1 U	**4.6 J**	2.9 U	**3.9 J**	-	-	48 U	57 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	300 UJ	560 U	5.1 UJ	3.2 U	4.2 U	3.1 U	3.5 U	-	-	48 U	57 UJ
Acetone	µg/kg	**420 J**	**770 J**	29 UJ	18 U	24 U	17 U	**24**	-	-	R	**38 J**
Benzene	µg/kg	10 UJ	19 UJ	0.96 U	0.60 U	0.79 U	0.58 U	0.66 U	-	-	12 U	14 UJ
Carbon disulfide	µg/kg	R	250 UJ	1.6 U	1.0 U	1.3 U	0.96 U	1.1 U	-	-	12 U	14 UJ
Carbon tetrachloride	µg/kg	23 UJ	42 U	4.5 U	2.8 U	3.7 U	2.7 U	3.1 U	-	-	12 U	14 UJ
Chlorobenzene	µg/kg	44 UJ	82 U	1.3 UJ	0.79 U	1.0 U	0.76 U	0.87 U	-	-	12 UJ	14 UJ
Chloroethane	µg/kg	190 UJ	350 U	1.7 U	1.1 U	1.4 U	1.0 U	1.2 U	-	-	12 U	14 UJ
Chloroform (Trichloromethane)	µg/kg	11 UJ	21 U	1.1 U	0.68 U	0.89 U	0.65 U	0.75 U	-	-	12 U	14 UJ
cis-1,2-Dichloroethene	µg/kg	**28 J**	21 UJ	1.5 U	0.56 U	0.74 U	0.54 U	0.62 U	-	-	12 U	14 UJ
Cyclohexane	µg/kg	200 UJ	**1400 J**	1.9 UJ	1.2 U	1.6 U	1.1 U	1.3 U	-	-	24 U	29 UJ
Ethylbenzene	µg/kg	**65 J**	190 U	1.4 UJ	0.90 U	1.2 U	0.86 U	0.99 U	-	-	12 UJ	14 UJ
Isopropyl benzene	µg/kg	48 UJ	**150 J**	1.1 UJ	0.72 U	0.94 U	0.69 U	0.79 U	-	-	12 UJ	14 UJ
Methyl acetate	µg/kg	660 UJ	1200 U	4.7 U	2.9 U	3.9 U	2.8 U	3.2 U	-	-	24 U	29 UJ
Methyl cyclohexane	µg/kg	**350 J**	**5900 J**	1.7 UJ	1.1 U	1.4 U	1.0 U	1.2 U	-	-	24 U	29 UJ
Methyl tert butyl ether (MTBE)	µg/kg	46 UJ	87 U	1.1 U	0.71 U	0.93 U	0.68 U	0.78 U	-	-	48 U	57 UJ
Methylene chloride	µg/kg	**980 J**	900 U	17 U	10 U	14 U	9.9 U	11 U	-	-	**1.9 J**	**18 J**
Styrene	µg/kg	15 UJ	28 U	1.6 UJ	1.0 U	1.3 U	0.95 U	1.1 U	-	-	12 UJ	14 UJ
Tetrachloroethene	µg/kg	**58 J**	35 U	1.0 UJ	0.63 U	0.83 U	0.60 U	0.69 U	-	-	12 UJ	**4.8 J**
Toluene	µg/kg	**320 J**	**630 J**	1.1 UJ	0.67 U	0.88 U	0.64 U	0.73 U	-	-	**1.1 J**	**1.7 J**
trans-1,2-Dichloroethene	µg/kg	19 UJ	35 UJ	0.64 U	0.40 U	0.53 U	0.38 U	0.44 U	-	-	12 U	14 UJ
Trichloroethene	µg/kg	**81 J**	30 UJ	**2.7 J**	**3.7 J**	**2.7 J**	0.52 U	0.60 U	-	-	12 U	14 UJ
Trichlorofluoromethane (CFC-11)	µg/kg	58 UJ	110 UJ	1.5 U	0.93 U	1.2 U	0.89 U	1.0 U	-	-	12 U	14 UJ
Trifluorotrichloroethane (CFC-113)	µg/kg	84 UJ	160 U	1.8 U	1.1 U	1.5 U	1.1 U	1.2 U	-	-	12 U	14 UJ
Vinyl chloride	µg/kg	13 UJ	23 UJ	1.2 U	0.72 U	0.95 U	0.69 U	0.79 U	-	-	12 U	14 UJ
Xylenes (total)	µg/kg	**510 J**	**2300 J**	2.2 UJ	1.4 U	1.8 U	1.3 U	1.5 U	-	-	24 UJ	29 UJ
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	43 UJ	47 U	120 U	44 U	47 U	44 U	230 U	-	-	180 U	230 U
2-Chlorophenol	µg/kg	11 U	12 U	29 U	11 U	12 U	11 U	57 U	-	-	61 U	76 U
2-Methylnaphthalene	µg/kg	**430**	**770 J**	**3200 J**	**16**	**24**	**160**	**590**	-	-	**36**	10 U
2-Methylphenol	µg/kg	33 U	36 U	90 U	34 U	36 U	34 U	180 U	-	-	240 U	300 U
3&4-Methylphenol	µg/kg	31 U	34 U	85 U	32 U	34 U	32 U	**420 J**	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	R	50 U	130 U	47 U	51 U	48 U	240 U	-	-	120 U	150 U
Acenaphthene	µg/kg	**22**	3.3 UJ	**95 J**	3.1 U	3.4 U	3.2 U	**190**	-	-	8.1 U	10 U
Acenaphthylene	µg/kg	4.3 U	4.7 U	12 U	**6.2 J**	**12 J**	**5.0 J**	23 U	-	-	8.1 U	10 U
Acetophenone	µg/kg	12 U	13 U	32 U	12 U	13 U	**22 J**	**210 J**	-	-	120 U	150 U
Anthracene	µg/kg	**16**	**41 J**	**200 J**	**12 J**	**9.3 J**	2.7 U	**69 J**	-	-	8.1 U	10 U
Benzaldehyde	µg/kg	**35 J**	**70 J**	**330 J**	25 U	27 U	26 U	130 U	-	-	120 U	150 U
Benzo(a)anthracene	µg/kg	**63**	**140 J**	**610 J**	**99**	**62**	**32**	**46 J**	-	-	**33**	10 U
Benzo(a)pyrene	µg/kg	**37**	**74 J**	**330 J**	**99**	**78**	**27**	53 U	-	-	**23**	10 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**
Sample Location:		**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**	**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS** Duplicate	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**69**	**140 J**	**640 J**	**150**	**110**	**36**	**40 J**	-	-	**34**	10 U
Benzo(g,h,i)perylene	µg/kg	**59**	**78 J**	**320 J**	**56**	**56**	**26**	40 U	-	-	**14**	10 U
Benzo(k)fluoranthene	µg/kg	**9.5 J**	**28 J**	**84 J**	**52**	**36**	7.7 U	39 U	-	-	**16**	10 U
Biphenyl (1,1-Biphenyl)	µg/kg	**34 J**	**43 J**	**170 J**	19 U	20 U	19 U	**250 J**	-	-	61 U	76 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	**67 J**	60 U	150 U	**170**	60 U	57 U	**450**	-	-	61 U	76 U
Butyl benzylphthalate (BBP)	µg/kg	24 U	26 U	64 U	24 U	26 U	24 U	120 U	-	-	61 U	76 U
Caprolactam	µg/kg	80 U	88 U	220 U	82 U	88 U	83 U	430 U	-	-	400 U	500 U
Carbazole	µg/kg	**32 J**	**40 J**	**140 J**	21 U	22 U	21 U	110 U	-	-	61 U	76 U
Chrysene	µg/kg	**120**	**170 J**	**730 J**	**120**	**80**	**64**	**51 J**	-	-	**38**	10 U
Dibenz(a,h)anthracene	µg/kg	**17**	**24 J**	**88 J**	**19**	**13 J**	7.7 U	39 U	-	-	8.1 U	10 U
Dibenzofuran	µg/kg	**110**	**230 J**	**990 J**	14 U	15 U	**54 J**	**130 J**	-	-	61 U	76 U
Diethyl phthalate	µg/kg	33 U	36 U	90 U	34 U	36 U	34 U	180 U	-	-	61 U	76 U
Dimethyl phthalate	µg/kg	15 U	16 U	41 U	15 U	16 U	16 U	80 U	-	-	61 U	76 U
Di-n-butylphthalate (DBP)	µg/kg	24 U	26 U	64 U	24 U	26 U	24 U	**140 J**	-	-	61 U	76 U
Di-n-octyl phthalate (DnOP)	µg/kg	30 U	33 U	82 U	30 U	33 U	31 U	160 U	-	-	61 U	76 U
Fluoranthene	µg/kg	**72**	**130 J**	**590 J**	**160**	**110**	**43**	**130**	-	-	**70**	10 U
Fluorene	µg/kg	**32**	**20 J**	**77 J**	3.0 U	3.2 U	3.0 U	**330**	-	-	8.1 U	10 U
Hexachlorobenzene	µg/kg	3.1 U	3.3 U	8.3 U	3.1 U	3.3 U	3.2 U	16 U	-	-	8.1 U	10 U
Hexachlorobutadiene	µg/kg	13 U	14 U	35 U	13 U	14 U	13 U	68 U	-	-	61 U	76 U
Indeno(1,2,3-cd)pyrene	µg/kg	**18**	**29 J**	**120 J**	**49**	**50**	**17**	42 U	-	-	**12**	10 U
Isophorone	µg/kg	13 U	14 U	35 U	13 U	14 U	13 U	68 U	-	-	61 U	76 U
Naphthalene	µg/kg	**230**	**360 J**	**1500 J**	**12 J**	**16 J**	**99**	**470**	-	-	**18**	10 U
N-Nitrosodiphenylamine	µg/kg	13 U	14 U	35 U	13 U	14 U	13 U	68 U	-	-	61 U	76 U
Pentachlorophenol	µg/kg	62 UJ	68 UJ	170 UJ	63 U	68 U	64 U	330 UJ	-	-	180 U	230 U
Phenanthrene	µg/kg	**390**	**590 J**	**2300 J**	**46**	**55**	**160**	**630**	-	-	**53**	10 U
Phenol	µg/kg	8.6 U	9.3 U	23 U	8.7 U	9.4 U	8.9 U	**87 J**	-	-	61 U	76 U
Pyrene	µg/kg	**100**	**150 J**	**660 J**	**150**	**98**	**44**	**130**	-	-	**58**	10 U
Metals												
Aluminum	mg/kg	**840**	**3200**	**3600**	**3400**	**7900**	**5400**	**1400**	-	-	**2120**	**3550**
Antimony	mg/kg	**0.24 J**	**0.27 J**	**1.7 J**	**0.35 J**	**0.63 J**	**0.18 J**	**0.12 J**	-	-	**1.5 J**	**2.0 J**
Arsenic	mg/kg	**5.5**	**9.9 J**	**46 J**	**5.0**	**9.4**	**8.6**	**1.7**	-	-	**21.6**	**47.8**
Barium	mg/kg	**100**	**150 J**	**560 J**	**58**	**110**	**54**	**14**	-	-	**343**	**735**
Beryllium	mg/kg	**0.36**	**0.47 J**	**1.5 J**	**0.19**	**0.97**	**0.43**	0.087 U	-	-	**0.88**	**1.4**
Cadmium	mg/kg	**0.28**	0.090 U	0.091 U	**0.27**	**0.40**	**0.20**	0.098 U	-	-	**0.090 J**	0.76 U
Calcium	mg/kg	**1400 J**	**1700**	**2400**	**130000**	**58000**	**91000**	**740**	-	-	**4100 J**	**1620 J**
Chromium	mg/kg	**7.8**	**7.0**	**15**	**9.6**	**17**	**7.2**	**8.4**	-	-	**7.9**	**15.0**
Chromium III (trivalent)	mg/kg	**7.8**	**7.0**	**15**	**9.6**	**17**	**7.2**	**8.4**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.26 U	0.28 U	0.35 U	0.26 U	0.28 U	0.27 U	0.27 U	-	-	-	-
Cobalt	mg/kg	**6.4**	**3.5**	**7.0**	**3.7**	**7.1**	**4.0**	**0.76**	-	-	**2.7 J**	**4.9 J**
Copper	mg/kg	**21**	**21**	**44**	**24**	**79**	**12**	**11**	-	-	**39.1**	**48.1**
Iron	mg/kg	**5500**	**6600**	**4400**	**9900**	**12000**	**10000**	**10000**	-	-	**4410**	**4670**
Lead	mg/kg	**31**	**8.1 J**	**34 J**	**58 J**	**42 J**	**8.1 J**	**8.0 J**	-	-	**27.5**	**45.2**
Lead - coarse fraction	mg/kg	-	-	-	**80**	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	**200**	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	**92**	-	-	-	-	-	-	-
Magnesium	mg/kg	**720 J**	**32000 J**	**330 J**	**55000**	**25000**	**39000**	**380**	-	-	**1700 J**	**325 J**
Manganese	mg/kg	**15**	**240 J**	**17 J**	**400**	**390**	**410**	**100**	-	-	**18.6**	**13.5**
Mercury	mg/kg	**0.021 J**	0.022 U	**0.071 J**	**0.018 J**	**0.13**	0.023 U	0.022 U	-	-	**0.039 J**	**0.087 J**
Nickel	mg/kg	**22**	**8.8**	**16**	**11**	**19**	**10**	**10**	-	-	**8.2**	**11.8**
Potassium	mg/kg	**170 J**	**580**	**560**	**630**	**880**	**660**	51 U	-	-	**339 J**	**547 J**
Selenium	mg/kg	**0.71 J**	**0.47 J**	**4.8 J**	**0.16 J**	**0.65 J**	**0.26 J**	0.11 U	-	-	**5.5 J**	**7.7 J**
Silver	mg/kg	**0.029 J**	**0.021 J**	**0.10 J**	**0.049 J**	**0.15 J**	**0.026 J**	**0.024 J**	-	-	1.2 U	1.5 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**
Sample Location:		**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**	**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**
Parameters	**Units**			**Duplicate**								
Metals (cont'd)												
Sodium	mg/kg	53 U	**130 J**	**110 J**	**150 J**	**480**	**120 J**	47 U	-	-	608 U	757 U
Thallium	mg/kg	0.086 U	**0.27**	**0.70**	**0.14 J**	**0.27**	**0.15 J**	0.044 U	-	-	**0.45**	0.76 U
Vanadium	mg/kg	**12**	**13 J**	**49 J**	**11**	**22**	**13**	**1.6**	-	-	**23.4**	**44.6**
Zinc	mg/kg	**150 J**	**39 J**	**48 J**	**99 J**	**89 J**	**35 J**	**15 J**	-	-	**15.9**	**12.1**
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	25 U	26 U	34 U	25 U	27 U	25 U	26 U	-	-	40 U	50 U
Aroclor-1242 (PCB-1242)	µg/kg	20 U	22 U	28 U	20 U	22 U	21 U	21 U	-	-	40 U	50 U
Aroclor-1248 (PCB-1248)	µg/kg	26 U	28 U	35 U	26 U	28 U	26 U	27 U	-	-	40 U	50 U
Aroclor-1254 (PCB-1254)	µg/kg	25 U	26 U	34 U	25 U	27 U	25 U	26 U	-	-	40 U	50 U
Aroclor-1260 (PCB-1260)	µg/kg	24 U	25 U	32 U	24 U	25 U	24 U	25 U	-	-	40 U	50 U
Pesticides												
4,4'-DDD	µg/kg	1.6 U	17 U	22 U	1.6 U	1.7 U	1.6 U	17 U	-	-	41 U	13 U
4,4'-DDE	µg/kg	1.6 U	17 U	22 U	1.6 U	1.7 U	1.7 U	17 U	-	-	**27 J**	**4.3 J**
4,4'-DDT	µg/kg	1.2 U	13 U	16 U	1.2 U	1.3 U	1.2 U	13 U	-	-	41 UJ	13 UJ
alpha-BHC	µg/kg	0.98 U	10 U	13 U	0.97 U	1.1 U	**10**	10 U	-	-	41 U	13 U
alpha-Chlordane	µg/kg	1.6 U	17 U	22 U	1.6 U	1.7 U	1.7 U	17 U	-	-	41 U	13 U
beta-BHC	µg/kg	1.9 U	**20 NJ**	25 U	1.8 U	2.0 U	**8.1 NJ**	19 U	-	-	41 U	13 U
delta-BHC	µg/kg	1.8 U	19 U	25 U	1.8 U	2.0 U	1.9 U	19 U	-	-	41 U	13 U
Dieldrin	µg/kg	1.2 U	13 U	16 U	1.2 U	1.3 U	1.2 U	12 U	-	-	41 U	13 U
Endosulfan I	µg/kg	1.3 U	14 U	18 U	1.3 U	1.4 U	1.3 U	13 U	-	-	41 U	13 U
Endosulfan II	µg/kg	1.6 U	17 U	22 U	1.6 U	1.7 U	1.6 U	17 U	-	-	41 U	13 U
Endosulfan sulfate	µg/kg	1.4 U	15 U	19 U	1.4 U	1.5 U	1.4 U	14 U	-	-	41 U	13 U
Endrin	µg/kg	2.0 U	22 U	28 U	2.0 U	2.2 U	2.1 U	21 U	-	-	41 U	13 U
Endrin aldehyde	µg/kg	1.4 U	15 U	19 U	1.4 U	1.5 U	1.4 U	15 U	-	-	41 U	13 U
Endrin ketone	µg/kg	0.95 U	10 U	13 U	0.95 U	1.0 U	0.98 U	10 U	-	-	41 U	13 U
gamma-BHC (lindane)	µg/kg	1.9 U	21 U	26 U	1.9 U	2.1 U	2.0 U	20 U	-	-	41 U	13 U
gamma-Chlordane	µg/kg	1.3 U	14 U	18 U	1.3 U	1.4 U	1.4 U	14 U	-	-	41 U	13 U
Heptachlor epoxide	µg/kg	1.5 U	17 U	21 U	1.5 U	1.7 U	1.6 U	16 U	-	-	41 U	13 U
Methoxychlor	µg/kg	7.0 U	76 U	96 U	7.0 U	7.6 U	7.2 U	74 U	-	-	80 UJ	25 UJ
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	18 U	-	24 U	30 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**	**on-site (EU12)**
Sample Location:		**SS-64**	**SS-65**	**SS-65**	**SS-66**	**SS-67**	**SS-68**	**SS-69**	**SS-89**	**SS-167-AS**	**TT-10**	**TT-10**
Sample ID:		**SS-38443-103018-JC-064**	**SS-38443-103018-JC-065**	**SS-38443-103018-JC-118**	**SS-38443-103018-JC-066**	**SS-38443-103018-JC-067**	**SS-38443-103018-JC-068**	**SS-38443-103018-JC-069**	**SS-38443-103018-JC-089**	**SS-38443-103018-JC-167**	**S-38443-100308-KMV-044**	**S-38443-100308-KMV-045**
Sample Date:		**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/3/2008**	**10/3/2008**
Sample Depth:		**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.17-2.17 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**5 ft BGS**	**10 ft BGS**
				Duplicate								
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**1.4**	0.25 U	**0.31 J**	0.21 U	0.25 U	0.21 U	0.22 U	-	-	0.61 U	0.76 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	**82.2**	**66.1**

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU12)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)
Sample Location:		**TT-10**	**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**
Sample ID:		**S-38443-100308-KMV-046**	**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**
Sample Date:		**10/3/2008**	**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:		**15 ft BGS**	**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS Duplicate**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,1,2-Trichloroethane	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,1-Dichloroethane	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,1-Dichloroethene	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,2,4-Trichlorobenzene	µg/kg	R	11000 U	5.8 U	**210 J**	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,2-Dichlorobenzene	µg/kg	R	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,2-Dichloroethane	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,3-Dichlorobenzene	µg/kg	R	11000 U	5.8 U	**170 J**	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
1,4-Dichlorobenzene	µg/kg	**4.2 J**	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	53 UJ	46000 U	**2.4 J**	14000 U	20 U	22 U	19 U	22 U	26 U	22 U	**3.8 J**	**3.8 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	53 UJ	46000 U	23 U	14000 U	20 U	22 U	19 U	22 U	26 U	22 U	**0.64 J**	16 U
Acetone	µg/kg	**33 J**	46000 U	23 U	**4500 J**	20 U	22 U	36 U	22 U	26 U	22 U	24 UJ	26 UJ
Benzene	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	**0.88 J**	5.6 U	6.5 U	5.6 U	**0.23 J**	**1.3 J**
Carbon disulfide	µg/kg	13 UJ	11000 U	**1.4 J**	3600 U	5.0 U	5.5 U	**0.72 J**	5.6 U	6.5 U	5.6 U	**0.47 J**	**0.93 J**
Carbon tetrachloride	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Chlorobenzene	µg/kg	13 UJ	**1000 J**	**2.9 J**	**320 J**	**0.49 J**	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	**0.37 J**
Chloroethane	µg/kg	13 UJ	11000 U	5.8 U	3600 UJ	5.0 U	5.5 U	4.8 U	5.6 UJ	6.5 UJ	5.6 UJ	4.7 UJ	4.0 UJ
Chloroform (Trichloromethane)	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	**0.40 J**	5.6 U	4.7 U	**0.25 J**
cis-1,2-Dichloroethene	µg/kg	13 UJ	11000 U	5.8 U	**890 J**	**2.0 J**	5.5 U	**34**	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Cyclohexane	µg/kg	27 UJ	23000 U	12 U	7200 U	10 U	11 U	**2.3 J**	11 U	13 U	11 U	9.5 U	**0.50 J**
Ethylbenzene	µg/kg	13 UJ	**56000**	**1.1 J**	**59000**	5.0 U	5.5 U	**1.8 J**	**0.35 J**	6.5 U	5.6 U	**0.57 J**	**0.45 J**
Isopropyl benzene	µg/kg	13 UJ	**13000**	5.8 U	**3600**	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	**0.34 J**	**0.46 J**
Methyl acetate	µg/kg	27 UJ	23000 U	12 U	**650 J**	10 U	11 U	9.5 U	11 U	13 U	11 U	9.5 U	8.0 U
Methyl cyclohexane	µg/kg	27 UJ	**53000**	**0.78 J**	**790 J**	10 U	11 U	**2.8 J**	11 U	13 U	11 U	9.5 U	**1.2 J**
Methyl tert butyl ether (MTBE)	µg/kg	53 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Methylene chloride	µg/kg	**18 J**	20000 U	11 U	**4000**	6.3 UJ	5.5 UJ	4.8 UJ	**8.8 J**	**8.9 J**	**7.4 J**	**13 J**	**13 J**
Styrene	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Tetrachloroethene	µg/kg	**4.7 J**	11000 U	5.8 U	3600 U	5.0 U	5.5 U	**3.1 J**	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Toluene	µg/kg	**1.0 J**	11000 U	**2.0 J**	**1400 J**	**0.86 J**	**0.69 J**	**3.5 J**	**0.65 J**	6.5 U	**0.47 J**	**0.76 J**	**1.0 J**
trans-1,2-Dichloroethene	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Trichloroethene	µg/kg	13 UJ	11000 U	5.8 U	**1800 J**	**1.9 J**	**3.6 J**	**80**	5.6 U	**3.3 J**	**0.71 J**	4.7 U	4.0 U
Trichlorofluoromethane (CFC-11)	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Vinyl chloride	µg/kg	13 UJ	11000 U	5.8 U	3600 U	5.0 U	5.5 U	4.8 U	5.6 U	6.5 U	5.6 U	4.7 U	4.0 U
Xylenes (total)	µg/kg	27 UJ	**140000**	**2.9 J**	**73000**	10 U	11 U	**3.3 J**	11 U	13 U	11 U	**1.6 J**	**1.7 J**
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	R	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	**19**	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/kg	310 U	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	160 U	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/kg	160 UJ	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	160 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU12)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)
Sample Location:		**TT-10**	**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**
Sample ID:		**S-38443-100308-KMV-046**	**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**
Sample Date:		**10/3/2008**	**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:		**15 ft BGS**	**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS Duplicate**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	**54 J**	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/kg	510 U	-	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	230 U	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/kg	**11**	-	-	-	-	-	-	-	-	-	-	-
Phenol	µg/kg	78 U	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/kg	10 U	-	-	-	-	-	-	-	-	-	-	-
Metals													
Aluminum	mg/kg	**3910**	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	**2.1 J**	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	**51.2**	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	**761**	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	**1.5**	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	0.78 U	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	**7160 J**	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	**16.7**	-	-	-	-	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**5.9 J**	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	**55.9**	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	**5880**	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	**48.3**	-	-	-	-	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**3720 J**	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	**19.7**	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	**0.096 J**	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	**13.6**	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	**590 J**	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	**7.1 J**	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/kg	1.6 U	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU12)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**
Sample Location:		**TT-10**	**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**
Sample ID:		**S-38443-100308-KMV-046**	**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**
Sample Date:		**10/3/2008**	**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:		**15 ft BGS**	**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS Duplicate**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	776 U	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	**1.1**	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	**47.2**	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	**15.1**	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	51 U	75 U	40 U	2000 U	39 U	-	-	35 U	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	51 U	**380**	40 U	2000 U	**44**	-	-	35 U	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	51 U	75 U	40 U	2000 U	39 U	-	-	35 U	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	51 U	**300 NJ**	40 UJ	**16000**	**290**	-	-	35 U	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	51 U	75 UJ	40 UJ	2000 U	39 U	-	-	35 U	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	**1.4 J**	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	2.6 UJ	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Endrin	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/kg	**1.1 J**	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/kg	2.6 U	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/kg	5.1 UJ	-	-	-	-	-	-	-	-	-	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	31 U	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU12)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)
Sample Location:		**TT-10**	**BH66-13**	**BH66-13**	**BH67-13**	**BH67-13**	**BH71-13**	**BH72-13**	**BH73-13**	**BH74-13**	**BH74-13**	**BH78-13**	**BH78-13**
Sample ID:		**S-38443-100308-KMV-046**	**S-38443-062613-JC-054**	**S-38443-062613-JC-055**	**S-38443-062013-JC-032**	**S-38443-062013-JC-033**	**S-38443-062013-JT-025**	**S-38443-062013-JT-026**	**S-38443-062013-JT-024**	**S-38443-062013-JT-022**	**S-38443-062013-JT-023**	**S-38443-062513-JT-043**	**S-38443-062513-JT-044**
Sample Date:		**10/3/2008**	**6/26/2013**	**6/26/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/20/2013**	**6/25/2013**	**6/25/2013**
Sample Depth:		**15 ft BGS**	**10-12 ft BGS**	**22-24 ft BGS**	**7-9 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**18.75-20.75 ft BGS**	**18.5-20.5 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**	**20-22 ft BGS**	**20-22 ft BGS Duplicate**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.78 U	-	-	-	-	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**64.4**	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**
Sample Location:		**BH80-13**	**BH81-13**	**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**	**SS-54**	**SS-55**
Sample ID:		**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**
Sample Date:		**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**	**10/30/2018**	**10/29/2018**
Sample Depth:		**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS Duplicate**	**0-2 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	5.0 U	600 U	5.2 U	0.24 U	36 U	**54 J**	34 U	-	0.23 U	18 U	16 U	49 U
1,1,2-Trichloroethane	µg/kg	5.0 U	600 U	5.2 U	0.41 U	30 U	39 U	28 U	-	0.39 U	17 U	15 U	45 U
1,1-Dichloroethane	µg/kg	5.0 U	**77 J**	5.2 U	0.34 U	40 U	53 U	38 U	-	0.33 U	11 UJ	10 UJ	31 U
1,1-Dichloroethene	µg/kg	5.0 U	600 U	5.2 U	0.56 U	47 U	62 U	44 U	-	0.54 U	19 UJ	17 UJ	52 U
1,2,4-Trichlorobenzene	µg/kg	5.0 U	600 U	5.2 U	0.25 U	34 U	44 U	32 U	-	0.24 U	170 U	150 U	460 U
1,2-Dichlorobenzene	µg/kg	5.0 U	600 U	5.2 U	0.23 U	23 U	31 U	22 U	-	**1.7 J**	27 U	24 U	73 U
1,2-Dichloroethane	µg/kg	5.0 U	600 U	5.2 U	0.30 U	39 U	51 U	37 U	-	0.29 U	15 U	14 U	42 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	5.0 U	600 U	5.2 U	0.32 U	39 U	51 U	37 U	-	0.31 U	10 UJ	9.3 UJ	28 U
1,3-Dichlorobenzene	µg/kg	5.0 U	600 U	5.2 U	0.30 U	49 U	65 U	46 U	-	0.29 U	27 U	24 U	73 U
1,4-Dichlorobenzene	µg/kg	5.0 U	600 U	5.2 U	0.36 U	35 U	46 U	33 U	-	0.35 U	22 U	20 U	59 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**5.3 J**	2400 U	**4.4 J**	1.3 U	65 U	85 U	61 U	-	4.5 U	200 U	180 U	550 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	20 U	2400 U	21 U	0.93 U	52 U	68 U	49 U	-	0.89 U	300 U	280 U	830 U
Acetone	µg/kg	38 U	2400 U	28 U	3.2 U	130 U	170 U	120 U	-	26 U	310 U	280 U	850 U
Benzene	µg/kg	**0.25 J**	**38 J**	**0.62 J**	0.33 U	31 U	41 U	29 U	-	0.32 U	10 UJ	9.3 UJ	28 U
Carbon disulfide	µg/kg	5.0 U	600 U	**2.4 J**	0.22 U	23 U	31 U	22 U	-	**2.3 J**	140 UJ	130 UJ	380 U
Carbon tetrachloride	µg/kg	5.0 U	600 U	5.2 U	0.26 U	35 U	46 U	33 U	-	0.25 U	23 U	21 U	63 U
Chlorobenzene	µg/kg	**0.39 J**	600 U	**12**	0.34 U	39 U	51 U	37 U	-	**1.2 J**	44 U	41 U	120 U
Chloroethane	µg/kg	5.0 UJ	600 UJ	5.2 U	0.40 U	36 U	48 U	34 U	-	0.38 U	190 U	170 U	520 U
Chloroform (Trichloromethane)	µg/kg	5.0 U	600 U	5.2 U	0.24 U	31 U	41 U	29 U	-	0.23 U	11 U	10 U	31 U
cis-1,2-Dichloroethene	µg/kg	5.0 U	**580 J**	5.2 U	0.29 U	**180 J**	60 U	43 U	-	**1.7 J**	11 UJ	10 UJ	31 U
Cyclohexane	µg/kg	10 U	1200 U	**2.0 J**	0.22 U	39 U	**85 J**	37 U	-	0.21 U	210 UJ	190 UJ	570 U
Ethylbenzene	µg/kg	5.0 U	**5300**	**1.6 J**	0.28 U	46 U	60 U	43 U	-	0.27 U	24 U	18 U	42 U
Isopropyl benzene	µg/kg	5.0 U	**330 J**	**4.9 J**	0.21 U	44 U	58 U	**45 J**	-	0.20 U	48 U	44 U	130 U
Methyl acetate	µg/kg	10 U	**230 J**	10 U	1.2 U	98 U	130 U	92 U	-	1.2 U	670 U	610 U	1800 U
Methyl cyclohexane	µg/kg	10 U	**200 J**	**1.5 J**	0.24 U	48 U	**270 J**	45 U	-	**0.27 J**	84 UJ	76 UJ	230 U
Methyl tert butyl ether (MTBE)	µg/kg	5.0 U	600 U	5.2 U	0.28 U	34 U	44 U	32 U	-	0.27 U	47 U	43 U	130 U
Methylene chloride	µg/kg	13 U	600 U	12 U	6.1 U	85 U	160 U	100 U	-	0.24 U	490 U	440 U	1300 U
Styrene	µg/kg	5.0 U	600 U	5.2 U	0.28 U	13 U	17 U	12 U	-	0.27 U	15 U	14 U	42 U
Tetrachloroethene	µg/kg	5.0 U	600 U	5.2 U	0.39 U	27 U	**6200**	26 U	-	0.37 U	41 U	42 U	**230 J**
Toluene	µg/kg	5.0 U	**390 J**	**1.7 J**	0.35 U	31 U	41 U	29 U	-	**0.66 J**	180 U	108 U	220 U
trans-1,2-Dichloroethene	µg/kg	5.0 U	**46 J**	5.2 U	0.40 U	46 U	60 U	43 U	-	0.38 U	19 UJ	17 UJ	52 U
Trichloroethene	µg/kg	5.0 U	**1200 J**	**2.1 J**	**2.8 J**	**2800**	**340 J**	45 U	-	**4.4 J**	**890 J**	**1500 J**	**180 J**
Trichlorofluoromethane (CFC-11)	µg/kg	5.0 U	600 U	5.2 U	0.25 U	44 U	58 U	42 U	-	0.24 U	58 UJ	53 UJ	160 U
Trifluorotrichloroethane (CFC-113)	µg/kg	5.0 U	600 U	5.2 U	0.51 U	30 U	39 UJ	28 UJ	-	0.49 U	85 U	78 U	230 U
Vinyl chloride	µg/kg	5.0 U	**50 J**	5.2 U	0.29 U	22 U	29 U	21 U	-	0.28 U	13 UJ	12 UJ	35 U
Xylenes (total)	µg/kg	10 U	**7200**	**6.4 J**	0.42 U	36 U	**49 J**	**45 J**	-	**0.70 J**	**120 J**	27 U	80 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	110 U	24 U	**170 J**	240 U	-	21 U	46 U	44 U	R
2-Chlorophenol	µg/kg	-	-	-	46 U	9.7 U	67 U	98 U	-	8.5 U	12 U	11 U	R
2-Methylnaphthalene	µg/kg	-	-	-	**26 J**	**75**	**5200**	**420**	-	**28**	**140 J**	**28 J**	3.3 UJ
2-Methylphenol	µg/kg	-	-	-	62 U	13 U	**110 J**	130 U	-	11 U	36 U	34 U	R
3&4-Methylphenol	µg/kg	-	-	-	110 U	24 U	160 U	240 U	-	21 U	33 U	32 U	R
3,3'-Dichlorobenzidine	µg/kg	-	-	-	100 U	21 U	150 U	220 U	-	19 U	50 U	48 U	72 U
Acenaphthene	µg/kg	-	-	-	4.3 U	**12**	**150**	**550**	-	0.79 U	3.3 U	3.2 U	4.8 U
Acenaphthylene	µg/kg	-	-	-	2.0 U	**4.6 J**	**98**	4.2 U	-	0.36 U	**6.1 J**	**7.4 J**	6.7 U
Acetophenone	µg/kg	-	-	-	52 U	11 U	**340 J**	110 U	-	9.6 U	**17 J**	12 U	18 U
Anthracene	µg/kg	-	-	-	4.4 U	**31**	6.4 U	9.4 U	-	0.81 U	**15 J**	**25**	4.0 U
Benzaldehyde	µg/kg	-	-	-	67 U	**24 J**	98 U	140 U	-	12 U	27 U	25 U	38 U
Benzo(a)anthracene	µg/kg	-	-	-	3.5 U	**250**	**360**	7.6 U	-	**15**	**120**	**230**	5.7 UJ
Benzo(a)pyrene	µg/kg	-	-	-	**88**	**390**	**310**	7.7 U	-	**15**	**150**	**290**	16 UJ

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**
Sample Location:		**BH80-13**	**BH81-13**	**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**	**SS-54**	**SS-55**
Sample ID:		**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**
Sample Date:		**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**	**10/30/2018**	**10/29/2018**
Sample Depth:		**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS Duplicate**	**0-2 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	**120**	**640**	**480**	7.1 U	-	**26**	**290**	**610**	11 UJ
Benzo(g,h,i)perylene	µg/kg	-	-	-	**63**	**250**	**480**	4.2 U	-	**17**	**150**	**290**	12 UJ
Benzo(k)fluoranthene	µg/kg	-	-	-	**22 J**	**230**	**110**	8.2 U	-	**9.2**	**85**	**180**	12 U
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	20 U	**19 J**	**480**	42 U	-	**5.4 J**	20 U	**19 J**	28 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	110 U	**210**	**370 J**	**1300**	-	**35 J**	59 U	**78**	85 U
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	56 U	12 U	82 U	120 U	-	10 U	25 U	24 U	37 U
Caprolactam	µg/kg	-	-	-	210 U	44 U	300 U	440 U	-	38 U	86 U	83 U	130 U
Carbazole	µg/kg	-	-	-	150 U	**34 J**	220 U	320 U	-	28 U	22 U	**21 J**	32 U
Chrysene	µg/kg	-	-	-	6.2 U	**400**	**600**	13 U	-	**22**	**160**	**310**	2.5 UJ
Dibenz(a,h)anthracene	µg/kg	-	-	-	3.7 U	**51**	5.4 U	7.9 U	-	0.69 U	**49 J**	**97 J**	12 U
Dibenzofuran	µg/kg	-	-	-	3.7 U	**30 J**	**1100**	7.9 U	-	0.69 U	**31 J**	**18 J**	22 U
Diethyl phthalate	µg/kg	-	-	-	90 U	**19 J**	130 U	190 U	-	**20 J**	36 U	34 U	52 U
Dimethyl phthalate	µg/kg	-	-	-	95 U	20 U	140 U	200 U	-	18 U	16 U	15 U	23 U
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	84 U	18 U	120 U	180 U	-	16 U	25 U	24 U	37 U
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	44 U	9.3 U	65 U	95 U	-	8.2 U	32 U	31 U	47 U
Fluoranthene	µg/kg	-	-	-	**38**	**560**	**620**	**160**	-	**39**	**150**	**320**	7.4 UJ
Fluorene	µg/kg	-	-	-	3.0 U	**11**	**170**	**670**	-	0.55 U	3.2 U	**6.1 J**	4.6 U
Hexachlorobenzene	µg/kg	-	-	-	12 U	2.5 U	17 U	25 U	-	2.2 U	3.3 U	3.2 U	4.8 U
Hexachlorobutadiene	µg/kg	-	-	-	31 U	6.6 U	46 U	67 U	-	5.8 U	14 U	13 U	20 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	**50**	**210**	**180**	4.2 U	-	**12**	**140**	**270**	12 UJ
Isophorone	µg/kg	-	-	-	73 U	15 U	110 U	160 U	-	14 U	14 U	13 U	20 U
Naphthalene	µg/kg	-	-	-	4.6 U	**63**	**3200**	**290**	-	**13**	**110 J**	**31 J**	4.0 UJ
N-Nitrosodiphenylamine	µg/kg	-	-	-	120 U	25 U	170 U	250 U	-	22 U	14 U	13 U	20 U
Pentachlorophenol	µg/kg	-	-	-	51 U	11 U	75 U	110 U	-	9.5 U	67 U	64 U	R
Phenanthrene	µg/kg	-	-	-	**44**	**320**	**2500**	**1300**	-	**38**	**110**	**170**	3.7 UJ
Phenol	µg/kg	-	-	-	41 U	8.6 U	60 U	88 U	-	7.6 U	9.2 U	8.8 U	R
Pyrene	µg/kg	-	-	-	**39**	**450**	**550**	**300**	-	**32**	**130**	**260**	3.6 UJ
Metals													
Aluminum	mg/kg	-	-	-	**6800**	**4900**	**7700**	**14000**	-	**2600**	**7800**	**6200**	**5400**
Antimony	mg/kg	-	-	-	**0.24 J**	**4.3**	**2.8**	**0.33 J**	-	**0.23 J**	**14 J**	**1400 J**	**1.0**
Arsenic	mg/kg	-	-	-	**5.7**	**11**	**51**	**8.8**	-	**3.6**	**8.2 J**	**59 J**	**20**
Barium	mg/kg	-	-	-	**1200**	**660**	**290**	**84**	-	**44**	**90**	**100**	**310**
Beryllium	mg/kg	-	-	-	**0.40**	**0.53**	**1.7**	**0.82**	-	**0.15 J**	**0.50**	**0.48**	**6.0**
Cadmium	mg/kg	-	-	-	**0.26**	**4.9**	**1.8**	**0.18 J**	-	**0.29**	**1.2**	**2.4**	**0.10 J**
Calcium	mg/kg	-	-	-	**76000**	**61000**	**38000**	**3000**	-	**100000**	**47000**	**16000**	**3900**
Chromium	mg/kg	-	-	-	**11**	**39**	**41**	**20**	**18**	**45**	**26**	**30**	**16**
Chromium III (trivalent)	mg/kg	-	-	-	**11**	**39**	**41**	**20**	**18**	**45**	**25**	**30**	**16**
Chromium VI (hexavalent)	mg/kg	-	-	-	0.27 U	1.4 U	1.5 U	1.4 U	1.4 U	1.3 U	**0.84 J**	0.27 U	0.40 U
Cobalt	mg/kg	-	-	-	**4.4**	**6.9**	**8.3**	**7.6**	-	**2.4**	**6.0**	**5.7**	**14**
Copper	mg/kg	-	-	-	**22**	**670**	**950**	**16**	-	**20**	**290 J**	**1600 J**	**49**
Iron	mg/kg	-	-	-	**11000**	**34000**	**45000**	**21000**	-	**8700**	**22000**	**28000**	**7500**
Lead	mg/kg	-	-	-	**100**	**730**	**380**	**14**	-	**110**	**710 J**	**26000 J**	**28**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	**33000**	**21000**	**13000**	**2500**	-	**30000**	**21000 J**	**6300 J**	**360**
Manganese	mg/kg	-	-	-	**280**	**470**	**320**	**620**	-	**910**	**450**	**490**	**19**
Mercury	mg/kg	-	-	-	**0.039 J**	**0.49**	**0.48**	**0.037 J**	-	0.017 U	**0.070 J**	**0.12**	**0.12 J**
Nickel	mg/kg	-	-	-	**12**	**41**	**29**	**17**	-	**8.6**	**24 J**	**210 J**	**24**
Potassium	mg/kg	-	-	-	**920**	**510**	**730**	**1400**	-	**490**	**830**	**580**	**320**
Selenium	mg/kg	-	-	-	**0.47 J**	**0.94 J**	**2.8**	**0.94 J**	-	**0.27 J**	**0.30 J**	**0.37 J**	**0.94 J**
Silver	mg/kg	-	-	-	**0.097 J**	**1.3**	**0.48**	**0.027 J**	-	**0.091 J**	**0.52 J**	**6.8 J**	**0.051 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**
Sample Location:		**BH80-13**	**BH81-13**	**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**	**SS-54**	**SS-55**
Sample ID:		**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**
Sample Date:		**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**	**10/30/2018**	**10/29/2018**
Sample Depth:		**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS Duplicate**	**0-2 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	**140 J**	**210**	**330**	**80 J**	-	**150 J**	**990**	**840 J**	**140 J**
Thallium	mg/kg	-	-	-	**0.13 J**	**0.11 J**	**1.2**	**0.17 J**	-	**0.11 J**	**0.14 J**	**0.16 J**	**1.1**
Vanadium	mg/kg	-	-	-	**16**	**16**	**30**	**33**	-	**9.2**	**22**	**17**	**45**
Zinc	mg/kg	-	-	-	**360**	**860**	**370**	**53**	-	**35**	**700 J**	**1600 J**	**14**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	27 U	26 U	150 U	28 U	-	24 U	26 U	25 U	38 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	22 U	22 U	120 U	23 U	-	20 U	21 U	21 U	32 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	28 U	27 U	150 U	29 U	-	25 U	27 U	26 U	40 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	27 U	**180**	**1100**	28 U	-	24 U	26 U	25 U	**75 J**
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	26 U	25 U	140 U	27 U	-	23 U	**54 J**	**110**	37 U
Pesticides													
4,4'-DDD	µg/kg	-	-	-	190 U	19 U	41 U	41 U	-	**36 J**	17 U	1.6 U	**43 J**
4,4'-DDE	µg/kg	-	-	-	67 U	6.8 U	15 U	15 U	-	13 U	17 U	1.6 U	25 U
4,4'-DDT	µg/kg	-	-	-	79 U	8.0 U	17 U	17 U	-	15 U	13 U	**3.5 NJ**	19 U
alpha-BHC	µg/kg	-	-	-	90 U	9.1 U	20 U	20 U	-	17 U	10 U	0.99 U	15 U
alpha-Chlordane	µg/kg	-	-	-	210 U	22 U	47 U	47 U	-	40 U	17 U	1.6 U	25 U
beta-BHC	µg/kg	-	-	-	220 U	22 U	48 U	48 U	-	41 U	19 U	1.9 U	29 U
delta-BHC	µg/kg	-	-	-	73 U	7.4 U	16 U	16 U	-	14 U	19 U	1.8 U	28 U
Dieldrin	µg/kg	-	-	-	50 U	5.1 U	11 U	11 U	-	9.4 U	12 U	1.2 U	18 U
Endosulfan I	µg/kg	-	-	-	73 U	7.4 U	16 U	16 U	-	14 U	13 U	1.3 U	20 U
Endosulfan II	µg/kg	-	-	-	100 U	10 U	22 U	22 U	-	19 U	17 U	1.6 U	25 U
Endosulfan sulfate	µg/kg	-	-	-	67 U	6.8 U	15 U	15 U	-	13 U	14 U	1.4 U	21 U
Endrin	µg/kg	-	-	-	79 U	8.0 U	17 U	17 U	-	15 U	21 U	2.1 U	32 U
Endrin aldehyde	µg/kg	-	-	-	100 U	10 U	22 U	22 U	-	19 U	15 U	1.4 U	22 U
Endrin ketone	µg/kg	-	-	-	62 U	6.3 U	14 U	14 U	-	12 U	9.9 U	0.97 U	15 U
gamma-BHC (lindane)	µg/kg	-	-	-	160 U	16 U	36 U	36 U	-	30 U	20 U	1.9 U	30 U
gamma-Chlordane	µg/kg	-	-	-	84 U	8.5 U	19 U	18 U	-	16 U	14 U	1.3 U	21 U
Heptachlor epoxide	µg/kg	-	-	-	130 U	14 U	30 U	29 U	-	25 U	16 U	1.6 U	24 U
Methoxychlor	µg/kg	-	-	-	67 U	**7.1 NJ**	15 U	15 U	-	13 U	73 U	7.1 U	110 UJ
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**
Sample Location:		**BH80-13**	**BH81-13**	**BH81-13**	**BH107-18**	**BH108-18**	**BH109-18**	**BH110-18**	**BH159-17**	**BH159-17**	**SS-54**	**SS-54**	**SS-55**
Sample ID:		**S-38443-062413-SM-042**	**S-38443-062613-JC-070**	**S-38443-062613-JC-071**	**S-38443-011618-JC-046**	**S-38443-011218-JC-043**	**S-38443-011618-JC-044**	**S-38443-011618-JC-045**	**S-38443-121817-JC-010**	**S-38443-121817-JC-011**	**SS-38443-103018-JC-054**	**SS-38443-103018-JC-117**	**SS-38443-102918-JC-055**
Sample Date:		**6/24/2013**	**6/26/2013**	**6/26/2013**	**1/16/2018**	**1/12/2018**	**1/16/2018**	**1/16/2018**	**12/18/2017**	**12/18/2017**	**10/30/2018**	**10/30/2018**	**10/29/2018**
Sample Depth:		**22.5-24.5 ft BGS**	**15-17 ft BGS**	**22-24 ft BGS**	**12-14 ft BGS**	**7-9 ft BGS**	**7.5-9.5 ft BGS**	**6.3-8.3 ft BGS**	**13-15 ft BGS**	**19-21 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS Duplicate**	**0-2 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	0.055 U	0.47 U	**2.9**	0.058 U	-	**0.051 J**	0.22 U	0.23 U	**0.41 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU14)
Sample Location:		**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**	**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**	**BH62-13**
Sample ID:		**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**	**S-38443-061913-JT-008**
Sample Date:		**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**	**6/19/2013**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Duplicate**											
Volatiles													
1,1,1-Trichloroethane	µg/kg	**2.1 J**	20 U	33 UJ	0.84 U	R	39 UJ	0.95 U	-	-	-	160 U	5.0 U
1,1,2-Trichloroethane	µg/kg	R	18 U	31 UJ	1.4 U	R	36 UJ	1.3 U	-	-	-	130 U	5.0 U
1,1-Dichloroethane	µg/kg	**25 J**	13 UJ	21 UJ	1.2 U	R	25 UJ	0.81 U	-	-	-	180 U	5.0 U
1,1-Dichloroethene	µg/kg	R	21 UJ	35 UJ	2.0 U	R	42 UJ	1.1 U	-	-	-	210 U	5.0 U
1,2,4-Trichlorobenzene	µg/kg	R	190 U	310 UJ	0.88 U	R	370 UJ	R	-	-	-	150 U	5.0 U
1,2-Dichlorobenzene	µg/kg	R	29 U	49 UJ	0.81 U	R	58 UJ	R	-	-	-	100 U	5.0 U
1,2-Dichloroethane	µg/kg	R	17 U	28 UJ	1.1 U	R	33 UJ	0.90 U	-	-	-	170 U	5.0 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	R	11 UJ	19 UJ	1.1 U	R	22 UJ	0.99 U	-	-	-	170 U	5.0 U
1,3-Dichlorobenzene	µg/kg	R	29 U	49 UJ	1.1 U	R	58 UJ	R	-	-	-	220 U	5.0 U
1,4-Dichlorobenzene	µg/kg	R	24 U	40 UJ	1.3 U	R	47 UJ	R	-	-	-	160 U	5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**22 J**	220 U	370 UJ	4.7 U	**510 J**	440 UJ	4.1 U	-	-	-	290 U	**1.9 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	R	330 U	560 UJ	3.3 U	R	660 UJ	4.3 U	-	-	-	230 UJ	20 U
Acetone	µg/kg	R	340 U	570 UJ	11 U	**1200 J**	680 UJ	24 U	-	-	-	560 U	21 U
Benzene	µg/kg	R	11 UJ	19 UJ	1.2 U	**190 J**	22 UJ	0.81 U	-	-	-	140 U	5.0 U
Carbon disulfide	µg/kg	R	150 UJ	250 UJ	0.77 U	R	300 UJ	1.4 U	-	-	-	100 U	5.0 U
Carbon tetrachloride	µg/kg	R	25 U	42 UJ	0.92 U	R	50 UJ	3.8 U	-	-	-	160 U	5.0 U
Chlorobenzene	µg/kg	R	49 U	82 UJ	1.2 U	**920 J**	97 UJ	1.1 U	-	-	-	170 U	**0.39 J**
Chloroethane	µg/kg	R	210 U	350 UJ	1.4 U	R	420 UJ	1.4 U	-	-	-	160 U	5.0 U
Chloroform (Trichloromethane)	µg/kg	R	13 U	21 UJ	0.84 U	R	25 UJ	0.92 U	-	-	-	140 U	5.0 U
cis-1,2-Dichloroethene	µg/kg	**32 J**	**130 J**	**390 J**	1.0 U	**51 J**	25 UJ	0.76 U	-	-	-	200 U	**0.64 J**
Cyclohexane	µg/kg	R	230 UJ	380 UJ	0.77 U	**1400 J**	450 UJ	1.6 U	-	-	-	170 U	10 U
Ethylbenzene	µg/kg	R	21 U	33 UJ	0.99 U	**4000 J**	46 UJ	1.2 U	-	-	-	200 U	**0.35 J**
Isopropyl benzene	µg/kg	R	53 U	89 UJ	0.73 U	**2700 J**	110 UJ	0.97 U	-	-	-	200 U	5.0 U
Methyl acetate	µg/kg	R	730 U	1200 UJ	4.3 U	R	1500 UJ	4.0 U	-	-	-	430 U	10 U
Methyl cyclohexane	µg/kg	**3.7 J**	92 UJ	160 UJ	0.84 U	**11000 J**	180 UJ	1.4 U	-	-	-	210 U	10 U
Methyl tert butyl ether (MTBE)	µg/kg	R	52 U	87 UJ	0.99 U	R	100 UJ	0.95 U	-	-	-	150 U	5.0 U
Methylene chloride	µg/kg	R	530 U	900 UJ	0.88 U	R	1100 UJ	14 U	-	-	-	370 U	8.1 U
Styrene	µg/kg	R	17 U	28 UJ	0.99 U	R	33 UJ	1.3 U	-	-	-	57 U	5.0 U
Tetrachloroethene	µg/kg	R	55 U	41 UJ	1.4 U	R	**7200 J**	0.85 U	-	-	-	120 U	5.0 U
Toluene	µg/kg	**3.1 J**	119 U	190 U	1.2 U	**1100 J**	290 U	0.90 U	-	-	-	140 U	**0.94 J**
trans-1,2-Dichloroethene	µg/kg	**10 J**	21 UJ	**66 J**	1.4 U	R	42 UJ	0.54 U	-	-	-	200 U	5.0 U
Trichloroethene	µg/kg	**35 J**	**4000 J**	**13000 J**	1.5 U	R	**270 J**	**5.3 J**	-	-	-	210 U	5.0 U
Trichlorofluoromethane (CFC-11)	µg/kg	R	64 UJ	110 UJ	0.88 U	R	130 UJ	1.3 U	-	-	-	200 U	5.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	R	93 U	160 UJ	1.8 U	R	190 UJ	1.5 U	-	-	-	130 U	5.0 U
Vinyl chloride	µg/kg	**4.9 J**	14 UJ	24 UJ	1.0 U	R	28 UJ	0.97 U	-	-	-	98 U	5.0 U
Xylenes (total)	µg/kg	R	32 U	54 UJ	1.5 U	**14000 J**	64 UJ	1.8 U	-	-	-	**160 J**	10 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	66 UJ	480 U	60 U	28 U	3600 U	53 UJ	170 U	-	-	-	230 U	-
2-Chlorophenol	µg/kg	16 UJ	120 U	15 U	12 U	910 U	13 UJ	43 U	-	-	-	95 U	-
2-Methylnaphthalene	µg/kg	**130 J**	**210**	**5.0 J**	**420**	**8600**	**210**	**310**	-	-	-	**8800**	-
2-Methylphenol	µg/kg	51 UJ	370 U	47 U	15 U	2800 U	41 UJ	130 U	-	-	-	130 U	-
3&4-Methylphenol	µg/kg	48 UJ	350 U	44 U	28 U	2600 U	38 UJ	130 U	-	-	-	230 U	-
3,3'-Dichlorobenzidine	µg/kg	71 U	520 U	65 U	25 U	3900 U	57 U	190 U	-	-	-	210 U	-
Acenaphthene	µg/kg	4.7 U	**590**	4.3 U	1.1 U	**340 J**	3.8 U	12 U	-	-	-	**360**	-
Acenaphthylene	µg/kg	6.6 U	**63 J**	6.0 U	0.49 U	370 U	5.3 U	**190**	-	-	-	4.1 U	-
Acetophenone	µg/kg	**19 J**	130 U	17 U	**43 J**	1000 U	15 U	48 U	-	-	-	110 U	-
Anthracene	µg/kg	**19 J**	**1700**	3.6 U	1.1 U	220 U	**9.7 J**	**300**	-	-	-	9.0 U	-
Benzaldehyde	µg/kg	38 U	280 U	35 U	**55 J**	2100 U	30 U	100 U	-	-	-	140 U	-
Benzo(a)anthracene	µg/kg	**75 J**	**5200**	5.1 U	**61**	**650 J**	**30**	**1500**	-	-	-	**82**	-
Benzo(a)pyrene	µg/kg	**63 J**	**5200**	**15 J**	**46**	850 U	**28**	**1100**	-	-	-	**110**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU14)**
Sample Location:		**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**	**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**	**BH62-13**
Sample ID:		**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**	**S-38443-061913-JT-008**
Sample Date:		**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**	**6/19/2013**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Duplicate**											
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	**87 J**	**8000**	**10 J**	**67**	**660 J**	**47**	**2900**	-	-	-	**110**	-
Benzo(g,h,i)perylene	µg/kg	**41 J**	**3600**	11 U	**33**	650 U	**40**	**880**	-	-	-	4.1 U	-
Benzo(k)fluoranthene	µg/kg	**28**	**3000**	10 U	**22**	630 U	**11 J**	**840**	-	-	-	7.9 U	-
Biphenyl (1,1-Biphenyl)	µg/kg	28 U	210 U	26 U	**65 J**	1500 U	**23 J**	74 U	-	-	-	**1600**	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	**110 J**	620 U	77 U	48 U	**10000**	**79 J**	220 U	-	-	-	520 U	-
Butyl benzylphthalate (BBP)	µg/kg	36 U	270 U	33 U	14 U	2000 U	29 U	95 U	-	-	-	120 U	-
Caprolactam	µg/kg	120 U	910 U	110 U	52 U	6800 U	99 U	320 U	-	-	-	430 U	-
Carbazole	µg/kg	31 U	**1100**	29 U	38 U	1700 U	25 U	**170 J**	-	-	-	310 U	-
Chrysene	µg/kg	**86 J**	**5700**	**12 J**	**75**	**1200 J**	**50**	**2000**	-	-	-	**120**	-
Dibenz(a,h)anthracene	µg/kg	**15 J**	**920**	10 U	0.93 U	630 U	9.2 U	**310**	-	-	-	7.7 U	-
Dibenzofuran	µg/kg	**29 J**	**430 J**	20 U	**130**	1200 U	**54 J**	**120 J**	-	-	-	**320 J**	-
Diethyl phthalate	µg/kg	51 U	370 U	47 U	22 U	2800 U	41 U	130 U	-	-	-	190 U	-
Dimethyl phthalate	µg/kg	23 U	170 U	21 U	24 U	1300 U	19 U	61 U	-	-	-	200 U	-
Di-n-butylphthalate (DBP)	µg/kg	36 U	270 U	33 U	**37 J**	**3600 J**	29 U	**310**	-	-	-	170 U	-
Di-n-octyl phthalate (DnOP)	µg/kg	46 U	340 U	42 U	11 U	2500 U	37 U	120 U	-	-	-	92 U	-
Fluoranthene	µg/kg	**140 J**	**11000**	**15 J**	**69**	**1100 J**	**55**	**2300**	-	-	-	**260**	-
Fluorene	µg/kg	**16 J**	**580**	4.1 U	0.74 U	**420 J**	3.6 U	**79**	-	-	-	**600**	-
Hexachlorobenzene	µg/kg	4.7 U	34 U	4.3 U	2.9 U	260 U	3.8 U	12 U	-	-	-	24 U	-
Hexachlorobutadiene	µg/kg	20 U	150 U	18 U	7.9 U	1100 U	16 U	52 U	-	-	-	65 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	**42 J**	**3100**	11 U	**17**	670 U	9.8 U	**820**	-	-	-	4.1 U	-
Isophorone	µg/kg	20 U	150 U	18 U	18 U	1100 U	16 U	52 U	-	-	-	150 U	-
Naphthalene	µg/kg	**96 J**	**390**	3.6 U	**230**	**4200**	**140**	**290**	-	-	-	**11000**	-
N-Nitrosodiphenylamine	µg/kg	20 U	150 U	18 U	29 U	1100 U	16 U	52 U	-	-	-	240 U	-
Pentachlorophenol	µg/kg	96 UJ	700 U	87 U	13 U	5300 UJ	77 UJ	250 U	-	-	-	110 U	-
Phenanthrene	µg/kg	**140 J**	**7800**	**17 J**	**320**	**4100**	**160**	**1100**	-	-	-	**1300**	-
Phenol	µg/kg	13 UJ	97 U	12 U	10 U	**6600**	11 UJ	35 U	-	-	-	85 U	-
Pyrene	µg/kg	**110 J**	**8900**	**15 J**	**80**	**2000**	**45**	**1700**	-	-	-	**220**	-
Metals													
Aluminum	mg/kg	**5200**	**8400**	**7100**	**1700 J**	**4500**	**7700**	**7800**	-	-	-	**1900 J**	-
Antimony	mg/kg	**1.3**	**18 J**	**0.68 J**	0.33 UJ	**0.59 J**	**2.1 J**	**23 J**	-	-	-	**1.2 J**	-
Arsenic	mg/kg	**17**	**23**	**19**	**7.9**	**3.6**	**70**	**52**	-	-	-	**12**	-
Barium	mg/kg	**170**	**1800**	**770**	**57**	**55**	**460**	**1100**	-	-	-	**67**	-
Beryllium	mg/kg	**5.2**	**1.2**	**3.1**	**0.56**	**0.42**	**4.5**	**0.91**	-	-	-	**0.31**	-
Cadmium	mg/kg	**0.32**	**13**	0.16 U	**0.44**	**0.36**	**1.4**	**30**	-	-	-	**1.9**	-
Calcium	mg/kg	**11000**	**42000**	**1400**	**1600**	**120000**	**5600**	**19000**	-	-	-	**1200**	-
Chromium	mg/kg	**20**	**91**	**24**	**3.5**	**8.5**	**28**	**370**	-	-	-	**18**	-
Chromium III (trivalent)	mg/kg	**20**	**91**	**22**	-	**8.5**	**28**	**370**	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	0.40 U	0.29 U	**1.4**	-	1.3 U	1.6 U	0.26 U	-	-	-	-	-
Cobalt	mg/kg	**12**	**17**	**8.1**	**2.9**	**2.2**	**13**	**24**	-	-	-	**3.5**	-
Copper	mg/kg	**72**	**1600**	**44**	**12**	**54**	**310**	**3300**	-	-	-	**370**	-
Iron	mg/kg	**17000**	**76000**	**4800**	**7200**	**6400**	**13000**	**180000**	-	-	-	**18000**	-
Lead	mg/kg	**55**	**1900 J**	**38 J**	**2.9**	**190 J**	**220 J**	**3400 J**	-	-	-	**100**	-
Lead - coarse fraction	mg/kg	-	-	-	-	**6300**	-	**980**	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	**5300**	-	**1500**	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	**6300**	-	**1100**	-	-	-	-	-
Magnesium	mg/kg	**3700**	**10000**	**420**	**290**	**38000**	**1700**	**4900**	-	-	-	**600**	-
Manganese	mg/kg	**140**	**580**	**20**	**150**	**560**	**60**	**2300**	-	-	-	**600**	-
Mercury	mg/kg	**0.12 J**	**0.57**	**0.18**	**0.039 J**	**0.19**	**0.087 J**	**3.2**	-	-	-	**0.031 J**	-
Nickel	mg/kg	**24**	**100**	**17**	**10**	**6.0**	**29**	**310**	-	-	-	**17**	-
Potassium	mg/kg	**350**	**890**	**1000**	210 U	**650**	**900**	**1100**	-	-	-	180 U	-
Selenium	mg/kg	**1.0 J**	**3.4**	**2.4**	**1.2 J**	**0.16 J**	**4.0**	**3.7**	-	-	-	**1.3**	-
Silver	mg/kg	**0.097 J**	**28**	**0.16 J**	**0.018 J**	**0.083 J**	**0.89**	**12**	-	-	-	**0.12 J**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU13)**	**on-site (EU14)**
Sample Location:		**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**	**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**	**BH62-13**
Sample ID:		**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**	**S-38443-061913-JT-008**
Sample Date:		**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**	**6/19/2013**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Duplicate**											
Metals (cont'd)													
Sodium	mg/kg	**140 J**	**420**	**370**	60 U	**450**	**150 J**	**1500**	-	-	-	65 U	-
Thallium	mg/kg	**0.59**	**0.25**	**0.28**	**0.21 J**	0.067 U	**2.0**	**1.0**	-	-	-	**0.22 J**	-
Vanadium	mg/kg	**34**	**31**	**36**	**7.8**	**9.1**	**66**	**130**	-	-	-	**5.0**	-
Zinc	mg/kg	**66**	**3100 J**	**87 J**	**47**	**36 J**	**120 J**	**3400 J**	-	-	-	**310**	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	36 U	28 U	34 U	23 U	2300 U	300 U	24 U	-	-	-	18 U	35 U
Aroclor-1242 (PCB-1242)	µg/kg	30 U	23 U	28 U	29 U	1900 U	250 U	20 U	-	-	-	23 U	35 U
Aroclor-1248 (PCB-1248)	µg/kg	38 U	29 U	35 U	24 U	2400 U	320 U	25 U	-	-	-	19 U	35 U
Aroclor-1254 (PCB-1254)	µg/kg	**49 J**	**63**	**700**	20 U	**140000**	**11000**	**100**	-	-	-	**380**	35 U
Aroclor-1260 (PCB-1260)	µg/kg	35 U	26 U	32 U	26 U	2200 U	290 U	23 U	-	-	-	20 U	35 U
Pesticides													
4,4'-DDD	µg/kg	**34 NJ**	18 U	22 U	48 U	150 U	39 U	16 U	-	-	-	40 U	-
4,4'-DDE	µg/kg	12 U	18 U	22 U	18 U	150 U	**280**	16 U	-	-	-	14 U	-
4,4'-DDT	µg/kg	**34 J**	14 U	**40 J**	20 U	120 U	**760**	12 U	-	-	-	17 U	-
alpha-BHC	µg/kg	7.2 U	11 U	13 U	23 U	93 U	24 U	9.6 U	-	-	-	19 U	-
alpha-Chlordane	µg/kg	12 U	18 U	22 U	56 U	150 U	40 U	16 U	-	-	-	46 U	-
beta-BHC	µg/kg	14 U	21 U	25 U	57 U	180 U	46 U	18 U	-	-	-	47 U	-
delta-BHC	µg/kg	13 U	20 U	25 U	19 U	170 U	45 U	18 U	-	-	-	16 U	-
Dieldrin	µg/kg	8.7 U	13 U	16 U	13 U	110 U	29 U	12 U	-	-	-	11 U	-
Endosulfan I	µg/kg	9.5 U	14 U	18 U	19 U	120 U	32 U	13 U	-	-	-	16 U	-
Endosulfan II	µg/kg	12 U	18 U	22 U	26 U	150 U	39 U	16 U	-	-	-	22 U	-
Endosulfan sulfate	µg/kg	10 U	15 U	19 U	18 U	130 U	34 U	14 U	-	-	-	14 U	-
Endrin	µg/kg	15 U	23 U	28 U	20 U	190 U	50 U	20 U	-	-	-	17 U	-
Endrin aldehyde	µg/kg	10 U	16 U	19 U	26 U	**280 J**	35 U	14 U	-	-	-	22 U	-
Endrin ketone	µg/kg	**17 J**	11 U	13 U	16 U	91 U	23 U	9.4 U	-	-	-	13 U	-
gamma-BHC (lindane)	µg/kg	14 U	22 U	26 U	42 U	180 U	47 U	19 U	-	-	-	35 U	-
gamma-Chlordane	µg/kg	9.8 U	15 U	18 U	22 U	130 U	32 U	13 U	-	-	-	18 U	-
Heptachlor epoxide	µg/kg	11 U	17 U	21 U	35 U	150 U	**75 NJ**	15 U	-	-	-	29 U	-
Methoxychlor	µg/kg	52 UJ	79 U	97 U	18 U	670 U	170 U	69 U	-	-	-	14 U	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	18 U	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**13**	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**160**	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**12**	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**23**	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**0.85 J**	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**4.2 J**	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**0.43 J**	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**1.7 J**	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**3.0 J**	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	0.047 U	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**2.2 J**	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**1.1 J**	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**0.52 J**	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**1.5 J**	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**2.5 J**	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**3.8**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU13)	on-site (EU14)
Sample Location:		**SS-55**	**SS-56**	**SS-57**	**SS-58**	**SS-59**	**SS-60**	**SS-61**	**SS-94**	**SS-168-AS**	**TT-40**	**TT-40**	**BH62-13**
Sample ID:		**SS-38443-102918-JC-115**	**SS-38443-103018-JC-056**	**SS-38443-103018-JC-057**	**S-38443-110317-BW-021**	**SS-38443-103018-JC-059**	**SS-38443-103018-JC-060**	**SS-38443-103018-JC-061**	**SS-38443-103018-JC-094**	**SS-38443-103018-JC-168**	**TT-40**	**S-38443-110317-BW-022**	**S-38443-061913-JT-008**
Sample Date:		**10/29/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**10/30/2018**	**11/3/2017**	**11/3/2017**	**6/19/2013**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**2-4 ft BGS**	**6-8 ft BGS**	**21.5-23.5 ft BGS**
Parameters	**Units**	**Duplicate**											
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**0.21 J**	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**27 J**	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**46 J**	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**28 J**	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**22 J**	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**33 J**	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**110 J**	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	**37 J**	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	**3.4 J**	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	0.25 <	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.33 U	**0.77**	**1.7**	**1.9 J**	0.22 U	**4.1**	**0.38 J**	-	-	-	**0.53 J**	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)
Sample Location:		**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**
Sample ID:		**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**
Sample Date:		**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**
Sample Depth:		**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS Duplicate**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.30 U	27 U	0.20 U	0.22 UJ
1,1,2-Trichloroethane	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.52 U	23 U	0.35 U	0.37 U
1,1-Dichloroethane	µg/kg	4.7 U	4.1 U	**1.1 J**	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.44 U	30 U	0.29 U	0.32 U
1,1-Dichloroethene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.72 U	35 U	0.48 U	0.52 U
1,2,4-Trichlorobenzene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.32 U	25 U	0.21 U	0.23 U
1,2-Dichlorobenzene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	**1.1 J**	4.7 U	4.4 U	5.3 U	0.29 U	18 U	0.20 U	0.21 U
1,2-Dichloroethane	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.38 U	29 U	0.26 U	0.28 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.41 U	29 U	0.27 U	0.30 U
1,3-Dichlorobenzene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.38 U	37 U	0.26 U	0.28 U
1,4-Dichlorobenzene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	**1.7 J**	4.7 U	4.4 U	5.3 U	0.46 U	26 U	0.31 U	0.34 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**5.1 J**	16 U	20 U	1100 U	17 U	19 U	18 U	21 U	1.7 U	49 U	1.1 U	1.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	19 U	16 U	20 U	1100 U	**1.5 J**	19 U	18 U	21 U	1.2 U	39 U	0.79 U	0.85 U
Acetone	µg/kg	33 U	16 U	20 U	1100 U	21 U	19 U	18 U	21 U	4.1 U	95 U	2.7 U	8.3 U
Benzene	µg/kg	**0.22 J**	4.1 U	**0.38 J**	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.42 U	23 U	**0.43 J**	0.31 U
Carbon disulfide	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.28 U	18 U	0.19 U	0.20 U
Carbon tetrachloride	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.33 U	26 U	0.22 U	0.24 U
Chlorobenzene	µg/kg	**2.0 J**	4.1 U	5.1 U	270 U	**0.87 J**	4.7 U	4.4 U	5.3 U	0.44 U	29 U	0.29 U	0.32 U
Chloroethane	µg/kg	4.7 UJ	4.1 U	5.1 UJ	270 U	4.3 UJ	4.7 U	4.4 U	5.3 U	0.50 U	27 U	0.34 U	0.36 U
Chloroform (Trichloromethane)	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.30 U	23 U	0.20 U	0.22 U
cis-1,2-Dichloroethene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	**6.7**	**2.2 J**	**0.39 J**	**0.95 J**	34 U	0.25 U	0.27 U
Cyclohexane	µg/kg	9.5 U	8.1 U	**0.38 J**	540 U	8.6 U	9.4 U	8.8 U	11 U	0.28 U	29 U	0.19 U	0.20 U
Ethylbenzene	µg/kg	4.7 U	4.1 U	**0.47 J**	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.36 U	34 U	**0.52 J**	**0.35 J**
Isopropyl benzene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.26 U	33 U	0.18 U	0.19 U
Methyl acetate	µg/kg	9.5 U	8.1 U	10 U	**150 J**	8.6 U	9.4 U	8.8 U	11 U	1.5 U	73 U	1.0 U	1.1 U
Methyl cyclohexane	µg/kg	**0.33 J**	8.1 U	**0.67 J**	**37 J**	8.6 U	9.4 U	8.8 U	11 U	0.30 U	36 U	0.20 U	**0.29 J**
Methyl tert butyl ether (MTBE)	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.36 U	25 U	0.24 U	0.26 U
Methylene chloride	µg/kg	**4.4 J**	5.9 U	**5.0 J**	270 U	**11 J**	4.9 UJ	7.6 UJ	5.3 UJ	0.86 U	64 U	0.57 U	5.0 U
Styrene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.36 U	9.8 U	0.24 U	0.26 U
Tetrachloroethene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	**3.9 J**	**1.2 J**	**1.2 J**	0.49 U	21 U	**0.34 J**	0.35 U
Toluene	µg/kg	**0.56 J**	**0.40 J**	**1.3 J**	**24 J**	**0.39 J**	**0.46 J**	4.4 U	**0.53 J**	0.45 U	23 U	**1.5 J**	**0.77 J**
trans-1,2-Dichloroethene	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.50 U	34 U	0.34 U	0.36 U
Trichloroethene	µg/kg	4.7 U	**1.4 J**	5.1 U	**180 J**	4.3 U	**25**	**9.0**	**110**	**6.3 J**	36 U	**2.7 J**	**5.6**
Trichlorofluoromethane (CFC-11)	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.32 U	33 U	0.21 U	0.23 U
Trifluorotrichloroethane (CFC-113)	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.65 U	23 U	0.43 U	0.47 U
Vinyl chloride	µg/kg	4.7 U	4.1 U	5.1 U	270 U	4.3 U	4.7 U	4.4 U	5.3 U	0.37 U	17 U	0.25 U	0.27 U
Xylenes (total)	µg/kg	9.5 U	8.1 U	10 U	**110 J**	8.6 U	9.4 U	8.8 U	11 U	0.53 U	27 U	**0.71 J**	**0.79 J**
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-	-	32 U	220 U	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-	-	13 U	89 U	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	-	-	**93**	5.4 U	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	17 U	120 U	-	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	32 U	220 U	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-	-	29 U	200 U	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-	-	-	**14**	8.3 U	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-	-	-	**17**	3.8 U	-	-
Acetophenone	µg/kg	-	-	-	-	-	-	-	-	15 U	100 U	-	-
Anthracene	µg/kg	-	-	-	-	-	-	-	-	**43**	8.5 U	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-	-	19 U	130 U	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	-	-	**150**	6.9 U	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	-	-	**180**	7.0 U	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**
Sample Location:		**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**
Sample ID:		**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**
Sample Date:		**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**
Sample Depth:		**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS Duplicate**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	**250**	6.4 U	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	-	-	**190**	3.8 U	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	**88**	7.4 U	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-	-	**14 J**	38 U	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-	-	**170**	210 U	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-	-	16 U	110 U	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-	-	59 U	400 U	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-	-	43 U	290 U	-	-
Chrysene	µg/kg	-	-	-	-	-	-	-	-	**160**	12 U	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	-	-	**37**	7.2 U	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-	-	-	**32 J**	7.2 U	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	25 U	170 U	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	27 U	190 U	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-	-	24 U	160 U	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-	-	13 U	86 U	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-	-	-	**220**	6.0 U	-	-
Fluorene	µg/kg	-	-	-	-	-	-	-	-	**17**	5.8 U	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-	-	3.3 U	23 U	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-	-	8.9 U	61 U	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	-	-	**140**	3.8 U	-	-
Isophorone	µg/kg	-	-	-	-	-	-	-	-	21 U	140 U	-	-
Naphthalene	µg/kg	-	-	-	-	-	-	-	-	**61**	8.9 U	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-	-	33 U	230 U	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-	-	14 U	99 U	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-	-	-	**170**	**45 J**	-	-
Phenol	µg/kg	-	-	-	-	-	-	-	-	12 U	80 U	-	-
Pyrene	µg/kg	-	-	-	-	-	-	-	-	**210**	4.8 U	-	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	-	-	**8800**	**2200**	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	**1.8 J**	**1.3 J**	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-	-	**25**	**1.5**	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	**260**	**17**	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-	**3.3**	**0.19**	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	**13**	**0.15 J**	-	-
Calcium	mg/kg	-	-	-	-	-	-	-	-	**59000**	**140000**	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	-	**84**	**6.1**	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	**84**	**5.1**	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	1.9 U	**0.97**	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-	**10**	**2.7**	-	-
Copper	mg/kg	-	-	-	-	-	-	-	-	**120**	**7.2**	-	-
Iron	mg/kg	-	-	-	-	-	-	-	-	**21000**	**6400**	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-	**110**	**11**	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-	**22000**	**63000**	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	**300**	**320**	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-	**0.35 J**	0.022 U	-	-
Nickel	mg/kg	-	-	-	-	-	-	-	-	**38**	**7.4**	-	-
Potassium	mg/kg	-	-	-	-	-	-	-	-	**1100**	**350**	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-	**5.6**	**0.32 J**	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-	**0.30 J**	0.020 U	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**
Sample Location:		**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**
Sample ID:		**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**
Sample Date:		**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**
Sample Depth:		**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS Duplicate**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	-	-	-	-	-	**320**	160 U	-	-
Thallium	mg/kg	-	-	-	-	-	-	-	-	**0.80**	**0.11 J**	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	**41**	**8.4**	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-	**1200**	**29**	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	35 U	-	-	35 U	36 U	-	37 U	25 U	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	35 U	-	-	35 U	36 U	-	30 U	20 U	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	35 U	-	-	35 U	36 U	-	38 U	26 U	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	35 U	-	-	35 U	36 U	-	37 U	25 U	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	35 U	-	-	35 U	36 U	-	35 U	24 U	-	-
Pesticides													
4,4'-DDD	µg/kg	-	-	-	-	-	-	-	-	5.3 U	3.6 U	-	-
4,4'-DDE	µg/kg	-	-	-	-	-	-	-	-	1.9 U	1.3 U	-	-
4,4'-DDT	µg/kg	-	-	-	-	-	-	-	-	2.2 U	1.5 U	-	-
alpha-BHC	µg/kg	-	-	-	-	-	-	-	-	2.6 U	1.7 U	-	-
alpha-Chlordane	µg/kg	-	-	-	-	-	-	-	-	6.1 U	4.1 U	-	-
beta-BHC	µg/kg	-	-	-	-	-	-	-	-	6.2 U	4.2 U	-	-
delta-BHC	µg/kg	-	-	-	-	-	-	-	-	2.1 U	140 U	-	-
Dieldrin	µg/kg	-	-	-	-	-	-	-	-	1.4 U	0.97 U	-	-
Endosulfan I	µg/kg	-	-	-	-	-	-	-	-	2.1 U	1.4 U	-	-
Endosulfan II	µg/kg	-	-	-	-	-	-	-	-	2.9 U	1.9 U	-	-
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	-	-	1.9 U	130 U	-	-
Endrin	µg/kg	-	-	-	-	-	-	-	-	2.2 U	1.5 U	-	-
Endrin aldehyde	µg/kg	-	-	-	-	-	-	-	-	2.9 U	190 U	-	-
Endrin ketone	µg/kg	-	-	-	-	-	-	-	-	1.8 U	1.2 U	-	-
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	-	-	4.6 U	3.1 U	-	-
gamma-Chlordane	µg/kg	-	-	-	-	-	-	-	-	2.4 U	**2.6 NJ**	-	-
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	-	-	3.8 U	2.6 U	-	-
Methoxychlor	µg/kg	-	-	-	-	-	-	-	-	1.9 U	1.3 U	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	**25**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	**380**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	**48**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	**52**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	**3.0 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	**11 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	**1.7 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	**7.9 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	**6.9 J**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	1.1 UJ	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	**5.6 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	**2.8 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	**2.1 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	**6.0 J**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	**5.1 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	**17**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**
Sample Location:		**BH63-13**	**BH64-13**	**BH65-13**	**BH68-13**	**BH68-13**	**BH69-13**	**BH69-13**	**BH70-13**	**BH105-18**	**BH106-18**	**GP30-18**	**GP31-18**
Sample ID:		**S-38443-062013-JC-020**	**S-38443-061913-JC-016**	**S-38443-062013-JC-031**	**S-38443-061913-JC-017**	**S-38443-061913-JC-018**	**S-38443-062113-JC-035**	**S-38443-062113-JC-036**	**S-38443-062113-JC-034**	**S-38443-011718-JC-047**	**S-38443-011718-JC-048**	**S-38443-011718-JC-049**	**S-38443-011918-JC-056**
Sample Date:		**6/20/2013**	**6/19/2013**	**6/20/2013**	**6/19/2013**	**6/19/2013**	**6/21/2013**	**6/21/2013**	**6/21/2013**	**1/17/2018**	**1/17/2018**	**1/17/2018**	**1/19/2018**
Sample Depth:		**23-25 ft BGS**	**22-24 ft BGS**	**22.1-24.1 ft BGS**	**0.5-2.5 ft BGS**	**21.5-23.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS Duplicate**	**19-20 ft BGS**	**8.5-10.5 ft BGS**	**13-15 ft BGS**	**10.5-11.5 ft bgs**	**8-9 ft bgs**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	0.96 U	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	**82 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	**98 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	**110 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	**59 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	**180 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	**24 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	**270 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	**24 J**	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	**0.31 J**	0.055 U	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	**0.3**	**0.3**
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**
Sample Location:		**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	1.1 U	17 U	23 U	37 U	1.6 U	R	-	18 U	-	-	6.2 U
1,1,2-Trichloroethane	µg/kg	1.5 U	16 U	21 U	34 U	2.2 U	R	-	17 U	-	-	6.2 U
1,1-Dichloroethane	µg/kg	0.91 U	**31 J**	15 U	**110 J**	**2.6 J**	R	-	12 U	-	-	**5.0 J**
1,1-Dichloroethene	µg/kg	1.2 U	18 U	25 U	40 U	1.7 U	R	-	19 U	-	-	**0.89 J**
1,2,4-Trichlorobenzene	µg/kg	R	160 U	220 U	350 U	R	R	-	170 U	-	-	6.2 U
1,2-Dichlorobenzene	µg/kg	R	26 U	34 U	56 U	R	R	-	27 U	-	-	6.2 U
1,2-Dichloroethane	µg/kg	1.0 U	15 U	20 U	32 U	**4.3 J**	R	-	16 U	-	-	6.2 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1.1 U	9.8 U	13 U	21 U	1.6 U	R	-	10 U	-	-	6.2 U
1,3-Dichlorobenzene	µg/kg	R	26 U	34 U	56 U	R	R	-	27 U	-	-	6.2 U
1,4-Dichlorobenzene	µg/kg	R	21 U	28 U	45 U	R	R	-	22 U	-	-	6.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.7 U	190 U	260 U	**540 J**	**26 J**	**18 J**	-	200 U	-	-	**12 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	4.9 U	290 U	390 U	630 U	7.1 U	R	-	310 U	-	-	25 U
Acetone	µg/kg	28 U	**510 J**	400 U	650 U	40 U	R	-	320 U	-	-	**62**
Benzene	µg/kg	0.92 U	**37 J**	13 U	**310 J**	1.3 U	R	-	10 U	-	-	**1.3 J**
Carbon disulfide	µg/kg	1.5 U	130 U	180 U	290 U	2.2 U	R	-	140 U	-	-	**2.7 J**
Carbon tetrachloride	µg/kg	4.3 U	22 U	30 U	48 U	6.2 U	R	-	23 U	-	-	6.2 U
Chlorobenzene	µg/kg	1.2 U	**2100**	57 U	93 U	1.7 U	R	-	45 U	-	-	6.2 U
Chloroethane	µg/kg	1.6 U	180 U	250 U	400 U	2.3 U	R	-	190 U	-	-	6.2 U
Chloroform (Trichloromethane)	µg/kg	1.0 U	11 U	15 U	24 U	1.5 U	R	-	12 U	-	-	6.2 U
cis-1,2-Dichloroethene	µg/kg	1.4 U	**320**	**64 J**	24 U	**49**	R	-	**180 J**	-	-	**4.5 J**
Cyclohexane	µg/kg	1.8 U	200 U	270 U	430 U	2.6 U	R	-	210 U	-	-	12 U
Ethylbenzene	µg/kg	1.4 U	**1200**	20 U	**2600**	2.0 U	R	-	22 U	-	-	6.2 U
Isopropyl benzene	µg/kg	1.1 U	46 U	62 U	**230 J**	1.6 U	R	-	49 U	-	-	6.2 U
Methyl acetate	µg/kg	4.5 U	640 U	860 U	1400 U	6.5 U	R	-	680 U	-	-	12 U
Methyl cyclohexane	µg/kg	1.6 U	**150 J**	110 U	**790 J**	2.3 U	R	-	85 U	-	-	**5.5 J**
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	45 U	61 U	98 U	1.6 U	R	-	48 U	-	-	25 U
Methylene chloride	µg/kg	16 U	470 U	630 U	1000 U	23 U	R	-	490 U	-	-	6.2 U
Styrene	µg/kg	1.5 U	15 U	20 U	32 U	2.2 U	R	-	16 U	-	-	6.2 U
Tetrachloroethene	µg/kg	0.96 U	**67 J**	25 U	40 U	1.4 U	**1.7 J**	-	19 U	-	-	6.2 U
Toluene	µg/kg	1.0 U	**390**	74 U	**4400**	1.5 U	R	-	120 U	-	-	**0.65 J**
trans-1,2-Dichloroethene	µg/kg	0.61 U	**24 J**	25 U	40 U	**2.2 J**	R	-	**20 J**	-	-	6.2 U
Trichloroethene	µg/kg	**3.4 J**	**35 J**	**6400**	**50 J**	**5.2 J**	**9.6 J**	-	**2200**	-	-	**6.7**
Trichlorofluoromethane (CFC-11)	µg/kg	1.4 U	56 U	75 U	120 U	2.1 U	R	-	59 U	-	-	6.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.7 U	82 U	110 U	180 U	2.4 U	R	-	87 U	-	-	6.2 U
Vinyl chloride	µg/kg	1.1 U	**39 J**	16 U	**410 J**	**1.6 J**	R	-	13 U	-	-	**5.5 J**
Xylenes (total)	µg/kg	2.1 U	**890**	38 U	**9400**	3.0 U	R	-	**97 J**	-	-	**1.7 J**
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	270 U	110 U	50 U	61 U	220 U	97 U	-	120 U	-	-	440 U
2-Chlorophenol	µg/kg	67 U	29 U	13 U	15 U	55 U	24 U	-	30 U	-	-	150 U
2-Methylnaphthalene	µg/kg	**69 J**	**52**	**220**	**720**	**260**	**180**	-	**73**	-	-	19 U
2-Methylphenol	µg/kg	210 U	89 U	39 U	48 U	170 U	75 U	-	93 U	-	-	580 UJ
3&4-Methylphenol	µg/kg	200 U	83 U	36 U	**210 J**	160 U	70 U	-	87 U	-	-	-
3,3'-Dichlorobenzidine	µg/kg	290 U	120 U	54 U	66 U	240 U	100 U	-	130 U	-	-	290 U
Acenaphthene	µg/kg	19 U	**42 J**	**23**	**22 J**	16 U	**72**	-	**34 J**	-	-	19 U
Acenaphthylene	µg/kg	27 U	**16 J**	**310**	**14 J**	**79 J**	**49**	-	**24 J**	-	-	19 U
Acetophenone	µg/kg	74 U	31 U	**48 J**	17 U	61 U	27 U	-	**38 J**	-	-	290 U
Anthracene	µg/kg	16 U	**120**	**210**	**36**	**66 J**	**250**	-	**180**	-	-	19 U
Benzaldehyde	µg/kg	160 U	66 U	**140**	35 U	130 U	56 U	-	69 U	-	-	290 U
Benzo(a)anthracene	µg/kg	**110**	**330**	**1700**	**59**	**200**	**990**	-	**850**	-	-	**170**
Benzo(a)pyrene	µg/kg	**140**	**260**	**2000**	**39**	**260**	**890**	-	**940**	-	-	**200 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)
Sample Location:		**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**360**	**370**	**3000**	**61**	**430**	**1300**	-	**1200**	-	-	**280 J**
Benzo(g,h,i)perylene	µg/kg	**130**	**150**	**1900**	**46**	**360**	**740**	-	**960**	-	-	**140**
Benzo(k)fluoranthene	µg/kg	47 U	**170**	**1200**	11 U	**160**	**480**	-	**530**	-	-	**120**
Biphenyl (1,1-Biphenyl)	µg/kg	110 U	49 U	**29 J**	**97**	94 U	41 U	-	51 U	-	-	150 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	340 U	150 U	**130**	78 U	**1900**	**150 J**	-	**200 J**	-	-	150 U
Butyl benzylphthalate (BBP)	µg/kg	150 U	63 U	28 U	34 U	**250 J**	53 U	-	66 U	-	-	150 U
Caprolactam	µg/kg	510 U	210 U	94 U	120 U	420 U	180 U	-	220 U	-	-	960 U
Carbazole	µg/kg	130 U	**60 J**	**71**	29 U	110 U	**120**	-	**76 J**	-	-	150 U
Chrysene	µg/kg	**200**	**350**	**2000**	**94**	**280**	**1000**	-	**930**	-	-	**210**
Dibenz(a,h)anthracene	µg/kg	47 U	20 U	**510**	11 U	**91**	**200**	-	**230**	-	-	19 U
Dibenzofuran	µg/kg	88 U	**49 J**	**75**	**120**	72 U	**94 J**	-	**70 J**	-	-	150 U
Diethyl phthalate	µg/kg	210 U	89 U	39 U	48 U	170 U	75 U	-	93 U	-	-	150 U
Dimethyl phthalate	µg/kg	94 U	40 U	18 U	21 U	78 U	34 U	-	42 U	-	-	150 U
Di-n-butylphthalate (DBP)	µg/kg	150 U	63 U	**71 J**	34 U	120 U	53 U	-	66 U	-	-	150 U
Di-n-octyl phthalate (DnOP)	µg/kg	190 U	80 U	35 U	43 U	160 U	68 U	-	84 U	-	-	150 U
Fluoranthene	µg/kg	**140**	**730**	**1800**	**110**	**350**	**2000**	-	**1600**	-	-	**340 J**
Fluorene	µg/kg	18 U	**63**	**21**	**51**	15 U	**67**	-	**35 J**	-	-	19 U
Hexachlorobenzene	µg/kg	19 U	8.1 U	3.6 U	4.4 U	16 U	6.9 U	-	8.5 U	-	-	19 U
Hexachlorobutadiene	µg/kg	81 U	34 U	15 U	18 U	67 U	29 U	-	36 U	-	-	150 U
Indeno(1,2,3-cd)pyrene	µg/kg	**120**	**150**	**1700**	**18 J**	**320**	**640**	-	**720**	-	-	**130**
Isophorone	µg/kg	81 U	34 U	15 U	18 U	67 U	29 U	-	36 U	-	-	150 U
Naphthalene	µg/kg	16 U	**64**	**190**	**620**	**150**	**160**	-	**95**	-	-	19 U
N-Nitrosodiphenylamine	µg/kg	81 U	34 U	15 U	18 U	67 U	29 U	-	36 U	-	-	150 U
Pentachlorophenol	µg/kg	390 U	170 U	73 U	89 U	320 U	140 U	-	170 U	-	-	440 U
Phenanthrene	µg/kg	**130**	**530**	**550**	**380**	**250**	**1100**	-	**840**	-	-	**110 J**
Phenol	µg/kg	**87 J**	23 U	**50 J**	12 U	44 U	19 U	-	**37 J**	-	-	150 U
Pyrene	µg/kg	**130**	**560**	**2000**	**110**	**310**	**1600**	-	**1300**	-	-	**300**
Metals												
Aluminum	mg/kg	**4300**	**5900**	**8200**	**6800**	**4000**	**9200**	-	**7700**	-	-	**7270**
Antimony	mg/kg	**2.8 J**	**1.9 J**	**11**	**1.2**	**10**	**8.5**	-	**13**	-	-	**1.8 J**
Arsenic	mg/kg	**25**	**8.3**	**17**	**16**	**9.0**	**20**	-	**33**	-	-	**8.6**
Barium	mg/kg	**200**	**160**	**3100**	**260**	**240**	**2800**	-	**1200**	-	-	**1150**
Beryllium	mg/kg	**0.99**	**0.68**	**2.3**	**3.3**	**0.45**	**1.3**	-	**0.69**	-	-	**0.93**
Cadmium	mg/kg	**3.7**	**0.80**	**11**	**0.63**	**5.9**	**9.3**	-	**8.5**	-	-	**2.0 J**
Calcium	mg/kg	**24000**	**91000**	**110000**	**2200**	**110000**	**49000**	-	**56000**	-	-	**55500**
Chromium	mg/kg	**64**	**21**	**120**	**29**	**32**	**200**	-	**100**	-	-	**60.0 J**
Chromium III (trivalent)	mg/kg	**64**	**21**	**120**	**29**	**32**	**200**	-	**100**	-	-	-
Chromium VI (hexavalent)	mg/kg	0.33 U	0.28 U	**0.95 J**	**0.64 J**	1.3 U	**1.2**	-	**0.55 J**	-	-	-
Cobalt	mg/kg	**7.2**	**5.2**	**16**	**12**	**5.1**	**17**	-	**13**	-	-	**4.7 J**
Copper	mg/kg	**460**	**250**	**2400**	**62**	**1300**	**1600**	-	**1700**	-	-	**176 J**
Iron	mg/kg	**50000**	**16000**	**71000**	**60000**	**21000**	**58000**	-	**62000**	-	-	**13700**
Lead	mg/kg	**340 J**	**510 J**	**4200**	**22**	**700**	**1600**	-	**3300**	-	-	**234**
Lead - coarse fraction	mg/kg	-	-	**3600**	-	**47000**	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	**3600**	-	**28000**	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	**3600**	-	**43000**	-	-	-	-	-	-
Magnesium	mg/kg	**7600**	**33000**	**13000**	**680**	**44000**	**9000**	-	**13000**	-	-	**26200**
Manganese	mg/kg	**310**	**300 J**	**750**	**230**	**400**	**880**	-	**630**	-	-	**190 J**
Mercury	mg/kg	**0.19**	**0.22**	**0.28**	**0.48**	**0.32**	**0.62**	-	**0.45**	-	-	**0.12**
Nickel	mg/kg	**34**	**17**	**110**	**20**	**54**	**110**	-	**83**	-	-	**31.9 J**
Potassium	mg/kg	**360**	**800**	**810**	**1300**	**550**	**1200**	-	**740**	-	-	**746**
Selenium	mg/kg	**0.87 J**	**0.73 J**	**1.6**	**5.6**	**4.4**	**2.0**	-	**1.1**	-	-	**0.61 J**
Silver	mg/kg	**0.57**	**0.28**	**2.0**	**0.072 J**	**0.63**	**6.5**	-	**4.3**	-	-	1.2 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**
Sample Location:		**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**220 J**	**140 J**	**330**	**250 J**	**160 J**	**310**	-	**310**	-	-	**596**
Thallium	mg/kg	**0.22 J**	**0.24**	**0.23**	**0.49**	**0.11 J**	**0.30**	-	**0.17 J**	-	-	**0.18**
Vanadium	mg/kg	**19**	**18**	**28**	**46**	**13**	**34**	-	**29**	-	-	**18.9**
Zinc	mg/kg	**270 J**	**310**	**3000**	**58**	**470**	**2300**	-	**2000**	-	-	**2460**
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	30 U	25 U	29 U	35 U	510 U	28 U	-	27 U	-	-	77 U
Aroclor-1242 (PCB-1242)	µg/kg	25 U	21 U	24 U	29 U	420 U	23 U	-	**370**	-	-	77 U
Aroclor-1248 (PCB-1248)	µg/kg	32 U	27 U	31 U	37 U	530 U	29 U	-	29 U	-	-	77 U
Aroclor-1254 (PCB-1254)	µg/kg	**54 J**	**330**	**390**	35 U	510 U	**99**	-	**620**	-	-	77 U
Aroclor-1260 (PCB-1260)	µg/kg	29 U	24 U	28 U	**250 J**	**14000**	27 U	-	26 U	-	-	**500**
Pesticides												
4,4'-DDD	µg/kg	2.0 U	8.2 U	9.4 U	23 U	82 U	**9.5 NJ**	-	8.8 U	-	-	200 U
4,4'-DDE	µg/kg	2.0 U	8.4 U	**46**	23 U	83 U	**53**	-	**9.4 NJ**	-	-	200 U
4,4'-DDT	µg/kg	1.5 U	6.3 U	**51 J**	**61 J**	62 U	**74**	-	6.7 U	-	-	200 UJ
alpha-BHC	µg/kg	1.2 U	5.1 U	5.8 U	14 U	50 U	5.6 U	-	5.4 U	-	-	200 U
alpha-Chlordane	µg/kg	2.0 U	8.3 U	9.6 U	23 U	83 U	9.2 U	-	8.9 U	-	-	200 U
beta-BHC	µg/kg	2.3 U	9.6 U	11 U	26 U	95 U	11 U	-	10 U	-	-	200 U
delta-BHC	µg/kg	2.2 U	9.4 U	11 U	26 U	93 U	10 U	-	10 U	-	-	200 U
Dieldrin	µg/kg	1.5 U	6.1 U	7.0 U	17 U	61 U	6.7 U	-	6.5 U	-	-	200 U
Endosulfan I	µg/kg	1.6 U	6.7 U	7.6 U	18 U	66 U	7.3 U	-	7.1 U	-	-	200 U
Endosulfan II	µg/kg	2.0 U	8.2 U	9.4 U	23 U	82 U	9.1 U	-	8.8 U	-	-	200 U
Endosulfan sulfate	µg/kg	1.7 U	7.1 U	8.2 U	20 U	71 U	7.8 U	-	7.6 U	-	-	200 U
Endrin	µg/kg	2.5 U	11 U	12 U	29 U	100 U	12 U	-	11 U	-	-	200 U
Endrin aldehyde	µg/kg	1.7 U	7.3 U	8.3 U	20 U	72 U	8.0 U	-	7.8 U	-	-	200 U
Endrin ketone	µg/kg	1.2 U	4.9 U	5.7 U	14 U	49 U	5.5 U	-	5.3 U	-	-	200 U
gamma-BHC (lindane)	µg/kg	2.4 U	9.9 U	11 U	27 U	99 U	11 U	-	11 U	-	-	200 U
gamma-Chlordane	µg/kg	1.6 U	6.8 U	7.8 U	19 U	68 U	7.5 U	-	7.3 U	-	-	200 U
Heptachlor epoxide	µg/kg	1.9 U	8.0 U	9.2 U	22 U	79 U	8.8 U	-	8.6 U	-	-	200 U
Methoxychlor	µg/kg	8.7 U	36 U	42 U	100 U	360 U	40 U	-	39 U	-	-	380 U
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	17 U	-	-	-	23 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**
Sample Location:		**SS-46**	**SS-47**	**SS-48**	**SS-49**	**SS-50**	**SS-51**	**SS-52**	**SS-53**	**SS-169-AS**	**SS-170-AS**	**TT-8**
Sample ID:		**SS-38443-103018-JC-046**	**SS-38443-110218-JC-047**	**SS-38443-102918-JC-048**	**SS-38443-102918-JC-049**	**SS-38443-102918-JC-050**	**SS-38443-102918-JC-051**	**SS-38443-102918-JC-052**	**SS-38443-102918-JC-053**	**SS-38443-103018-JC-169**	**SS-38443-102918-JC-170**	**S-38443-100608-KMV-050**
Sample Date:		**10/30/2018**	**11/2/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/30/2018**	**10/29/2018**	**10/6/2008**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**0.78**	0.23 U	**2.7**	0.29 U	0.21 U	**13**	-	**0.56 J**	-	-	**0.27 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	**85.9**

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**	**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**	**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**	**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**	**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**
		Duplicate								**Duplicate**		
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,1,2-Trichloroethane	µg/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,1-Dichloroethane	µg/kg	**36 J**	**1.1 J**	**240 J**	**46 J**	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,1-Dichloroethene	µg/kg	**4.6 J**	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,2,4-Trichlorobenzene	µg/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,2-Dichlorobenzene	µg/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,2-Dichloroethane	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,3-Dichlorobenzene	µg/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
1,4-Dichlorobenzene	µg/kg	6.3 UJ	4.7 U	**100 J**	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	25 U	**2.8 J**	**130 J**	**200 J**	11000 U	1400 U	22 U	R	18 U	18 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	25 U	19 U	**1000 J**	**860 J**	11000 U	1400 U	22 U	R	18 U	18 U	17 U
Acetone	µg/kg	25 UJ	**14 J**	2300 U	2700 U	11000 U	1400 U	22 U	25 UJ	18 U	18 U	17 U
Benzene	µg/kg	**2.0 J**	4.7 U	**150 J**	**130 J**	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Carbon disulfide	µg/kg	**0.83 J**	4.7 U	580 U	**110 J**	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Carbon tetrachloride	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Chlorobenzene	µg/kg	6.3 UJ	4.7 U	**4000**	**2000**	**720 J**	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Chloroethane	µg/kg	**4.3 J**	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Chloroform (Trichloromethane)	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
cis-1,2-Dichloroethene	µg/kg	**21 J**	**0.63 J**	**890**	**590 J**	**330 J**	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Cyclohexane	µg/kg	**0.74 J**	9.4 U	1200 U	**160 J**	5300 U	700 U	11 U	R	9.1 U	9.0 U	8.6 U
Ethylbenzene	µg/kg	6.3 UJ	4.7 U	**15000**	**7000**	**66000**	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Isopropyl benzene	µg/kg	6.3 UJ	4.7 U	**110 J**	**2500**	**2800**	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Methyl acetate	µg/kg	13 U	9.4 U	**190 J**	**1300 J**	5300 U	700 U	11 U	R	9.1 U	9.0 U	8.6 U
Methyl cyclohexane	µg/kg	**42 J**	**0.84 J**	**250 J**	**1100 J**	**530 J**	**75 J**	**0.39 J**	R	9.1 U	9.0 U	8.6 U
Methyl tert butyl ether (MTBE)	µg/kg	**0.62 J**	19 U	2300 U	2700 U	11000 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Methylene chloride	µg/kg	6.3 U	4.7 U	**260 J**	680 U	2600 U	350 U	5.5 UJ	20 UJ	7.9 U	6.4 U	6.5 U
Styrene	µg/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Tetrachloroethene	µg/kg	6.3 UJ	4.7 U	580 U	680 U	2600 U	**20 J**	5.5 U	R	4.5 U	4.5 U	4.3 U
Toluene	µg/kg	**3.2 J**	4.7 U	**5300**	**990**	**450 J**	**40 J**	**0.97 J**	R	**0.42 J**	4.5 U	4.3 U
trans-1,2-Dichloroethene	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Trichloroethene	µg/kg	**5.3 J**	4.7 U	**350 J**	**670 J**	**420 J**	**4300**	**1.6 J**	R	**0.52 J**	**1.5 J**	**10**
Trichlorofluoromethane (CFC-11)	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	6.3 U	4.7 U	580 U	680 U	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Vinyl chloride	µg/kg	**54 J**	4.7 U	**220 J**	**180 J**	2600 U	350 U	5.5 U	R	4.5 U	4.5 U	4.3 U
Xylenes (total)	µg/kg	13 UJ	**1.1 J**	**27000**	**17000**	**140000**	**140 J**	11 U	R	9.1 U	9.0 U	8.6 U
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	680 U	160 U	1900 U	290 U	4200 U	-	-	-	-	-	-
2-Chlorophenol	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	30 U	6.9 U	**470**	13 U	**5400**	-	-	-	-	-	-
2-Methylphenol	µg/kg	910 UJ	210 UJ	2600 U	380 U	5600 U	-	-	-	-	-	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	450 U	100 U	1300 U	190 U	2800 U	-	-	-	-	-	-
Acenaphthene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Acenaphthylene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Acetophenone	µg/kg	450 U	100 U	1300 U	190 U	2800 U	-	-	-	-	-	-
Anthracene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Benzaldehyde	µg/kg	450 U	100 U	1300 U	190 U	2800 U	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	**47 J**	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU14)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**	**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**	**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**	**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**	**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**
		Duplicate								**Duplicate**		
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**88 J**	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	**49**	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	230 U	52 U	**720**	**74 J**	**3000**	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	230 U	52 U	640 U	**200**	1400 U	-	-	-	-	-	-
Caprolactam	µg/kg	1500 U	340 U	4200 U	630 U	9300 U	-	-	-	-	-	-
Carbazole	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Chrysene	µg/kg	**180**	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Dibenzofuran	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Diethyl phthalate	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	230 U	52 U	640 U	**45 J**	**2600**	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Fluoranthene	µg/kg	**940 J**	6.9 U	85 U	13 U	**370**	-	-	-	-	-	-
Fluorene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	30 U	6.9 U	85 U	13 U	190 U	-	-	-	-	-	-
Isophorone	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Naphthalene	µg/kg	30 U	6.9 U	**810**	**28**	**3900**	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Pentachlorophenol	µg/kg	680 U	160 U	1900 U	290 U	4200 U	-	-	-	-	-	-
Phenanthrene	µg/kg	**390 J**	6.9 U	85 U	13 U	**430**	-	-	-	-	-	-
Phenol	µg/kg	230 U	52 U	640 U	95 U	1400 U	-	-	-	-	-	-
Pyrene	µg/kg	**830**	6.9 U	85 U	13 U	**330**	-	-	-	-	-	-
Metals												
Aluminum	mg/kg	**7130**	**2100**	**5740**	**7220**	**5530**	-	-	-	-	-	-
Antimony	mg/kg	**2.0 J**	6.2 UJ	**6.6 J**	**1.6 J**	**3.4 J**	-	-	-	-	-	-
Arsenic	mg/kg	**10.6**	**2.9**	**35.0**	**18.5**	**16.4**	-	-	-	-	-	-
Barium	mg/kg	**450**	**10.1 J**	**197**	**162**	**829**	-	-	-	-	-	-
Beryllium	mg/kg	**1.2**	0.52 U	**2.6**	**2.5**	**1.6**	-	-	-	-	-	-
Cadmium	mg/kg	**2.6 J**	**0.18 J**	**6.3**	**0.36 J**	**2.2**	-	-	-	-	-	-
Calcium	mg/kg	**52600**	**109000**	**1670 J**	**21200 J**	**39900 J**	-	-	-	-	-	-
Chromium	mg/kg	**47.4 J**	**5.2 J**	**40.4**	**25.1**	**35.8**	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**7.0**	**2.3 J**	**11.8**	**12.7**	**8.9**	-	-	-	-	-	-
Copper	mg/kg	**173 J**	**8.1 J**	**389**	**56.4**	**597**	-	-	-	-	-	-
Iron	mg/kg	**20400**	**5820**	**16800**	**29300**	**23700**	-	-	-	-	-	-
Lead	mg/kg	**238**	**4.6 J**	**1200**	**15.0 J**	**557**	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**20700**	**51300**	**652 J**	**3370 J**	**13400 J**	-	-	-	-	-	-
Manganese	mg/kg	**211 J**	**198 J**	**163**	**88.1**	**217**	-	-	-	-	-	-
Mercury	mg/kg	**0.13**	0.10 U	**0.40**	**0.12 J**	**0.25**	-	-	-	-	-	-
Nickel	mg/kg	**21.4 J**	**6.8 J**	**40.2**	**33.3**	**27.6**	-	-	-	-	-	-
Potassium	mg/kg	**596**	**313 J**	**415 J**	**937 J**	**686 J**	-	-	-	-	-	-
Selenium	mg/kg	28.4 U	25.9 U	**7.2 J**	**1.6 J**	**7.0 J**	-	-	-	-	-	-
Silver	mg/kg	1.1 U	1.0 U	**0.94 J**	1.9 U	**0.46 J**	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)
Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**	**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**	**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**	**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**	**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**
		Duplicate								**Duplicate**		
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**543 J**	**191 J**	**106 J**	**272 J**	**169 J**	-	-	-	-	-	-
Thallium	mg/kg	0.12 U	0.10 U	0.64 U	**0.98**	**0.57**	-	-	-	-	-	-
Vanadium	mg/kg	**19.3**	**8.4**	**37.3**	**39.2**	**30.5**	-	-	-	-	-	-
Zinc	mg/kg	**2050**	**23.2**	**89.6**	**40.6**	**264**	-	-	-	-	-	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	75 U	34 U	420 U	63 U	230 U	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	75 U	34 U	420 U	63 U	**490**	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	**430**	34 U	420 U	63 U	230 U	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	75 U	34 UJ	**3700**	**200**	**1000**	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	**380**	34 UJ	420 U	63 U	230 U	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
4,4'-DDE	µg/kg	**9.7 J**	8.8 U	**220**	65 U	**77 J**	-	-	-	-	-	-
4,4'-DDT	µg/kg	**21 J**	8.8 UJ	44 UJ	65 UJ	240 UJ	-	-	-	-	-	-
alpha-BHC	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
alpha-Chlordane	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
beta-BHC	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
delta-BHC	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
Dieldrin	µg/kg	**12 J**	8.8 U	**270 J**	65 U	240 U	-	-	-	-	-	-
Endosulfan I	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
Endosulfan II	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
Endosulfan sulfate	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
Endrin	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
Endrin aldehyde	µg/kg	39 U	8.8 U	**28 J**	65 U	240 U	-	-	-	-	-	-
Endrin ketone	µg/kg	**19 J**	8.8 U	**28 J**	65 U	**96 J**	-	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	39 U	8.8 U	44 U	65 U	240 U	-	-	-	-	-	-
gamma-Chlordane	µg/kg	39 U	8.8 U	**180 J**	**27 J**	240 U	-	-	-	-	-	-
Heptachlor epoxide	µg/kg	39 U	8.8 U	**27 J**	65 U	240 U	-	-	-	-	-	-
Methoxychlor	µg/kg	75 U	17 U	85 UJ	130 UJ	460 UJ	-	-	-	-	-	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	23 U	21 U	26 U	38 U	28 U	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU14)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)
Sample Location:		**TT-8**	**TT-8**	**TT-9**	**TT-9**	**TT-9**	**BH51-13**	**BH51-13**	**BH52-13**	**BH52-13**	**BH53-13**	**BH53-13**
Sample ID:		**S-38443-100608-KMV-050-D**	**S-38443-100608-KMV-051**	**S-38443-100308-KMV-047**	**S-38443-100308-KMV-048**	**S-38443-100308-KMV-049**	**S-38443-062113-JT-027**	**S-38443-062113-JT-028**	**S-38443-061913-JC-014**	**S-38443-061913-JC-015**	**S-38443-061813-JT-001**	**S-38443-061813-JT-002**
Sample Date:		**10/6/2008**	**10/6/2008**	**10/3/2008**	**10/3/2008**	**10/3/2008**	**6/21/2013**	**6/21/2013**	**6/19/2013**	**6/19/2013**	**6/18/2013**	**6/18/2013**
Sample Depth:		**4 ft BGS**	**15 ft BGS**	**7 ft BGS**	**17 ft BGS**	**22 ft BGS**	**0-2 ft BGS**	**19.3-21.3 ft BGS**	**21.8-23.8 ft BGS**	**21.8-23.8 ft BGS**	**0-2 ft BGS**	**19-21 ft BGS**
		Duplicate								**Duplicate**		
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.57 U	0.52 U	0.64 U	**1.4 J**	**1.9 J**	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**87.9**	**96.4**	**78.1**	**52.4**	**71.1**	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**
Sample ID:		**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS Duplicate**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,1,2-Trichloroethane	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,1-Dichloroethane	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,1-Dichloroethene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,2,4-Trichlorobenzene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,2-Dichlorobenzene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,2-Dichloroethane	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,3-Dichlorobenzene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
1,4-Dichlorobenzene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	22 UJ	21 U	R	19 U	18 U	21 U	22 U	21 U	1700 U	21 U	22 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	22 UJ	21 U	R	19 U	18 U	21 U	22 U	21 U	1700 U	21 U	22 U	17 U
Acetone	µg/kg	22 UJ	21 U	130000 UJ	19 U	18 U	21 U	22 U	21 U	1700 U	21 U	22 U	17 U
Benzene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Carbon disulfide	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	**0.78 J**	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Carbon tetrachloride	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Chlorobenzene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Chloroethane	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 UJ
Chloroform (Trichloromethane)	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
cis-1,2-Dichloroethene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	**230 J**	5.2 U	5.6 U	4.3 U
Cyclohexane	µg/kg	11 UJ	11 U	R	9.7 U	9.1 U	10 U	11 U	11 U	860 U	10 U	11 U	8.6 U
Ethylbenzene	µg/kg	5.6 UJ	5.4 U	**260000 J**	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	**0.28 J**
Isopropyl benzene	µg/kg	5.6 UJ	5.4 U	**57000 J**	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Methyl acetate	µg/kg	11 UJ	11 U	R	9.7 U	9.1 U	10 U	11 U	11 U	860 U	10 U	11 U	8.6 U
Methyl cyclohexane	µg/kg	11 UJ	11 U	R	9.7 U	9.1 U	10 U	11 U	11 U	860 U	10 U	11 U	8.6 U
Methyl tert butyl ether (MTBE)	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Methylene chloride	µg/kg	9.0 UJ	8.6 U	33000 UJ	9.6 U	6.9 U	9.3 U	11 U	8.9 U	430 U	8.9 U	7.0 U	**15 J**
Styrene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Tetrachloroethene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	**1.0 J**
Toluene	µg/kg	5.6 UJ	5.4 U	**95000 J**	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	**66 J**	**0.35 J**	5.6 U	**0.63 J**
trans-1,2-Dichloroethene	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Trichloroethene	µg/kg	**8.4 J**	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	**2500**	**0.83 J**	5.6 U	**0.37 J**
Trichlorofluoromethane (CFC-11)	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Vinyl chloride	µg/kg	5.6 UJ	5.4 U	R	4.8 U	4.5 U	5.2 U	5.5 U	5.3 U	430 U	5.2 U	5.6 U	4.3 U
Xylenes (total)	µg/kg	11 UJ	11 U	**2000000 J**	9.7 U	9.1 U	10 U	11 U	11 U	860 U	10 U	11 U	8.6 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)
Sample Location:		**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**
Sample ID:		**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS Duplicate**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)
Sample Location:		**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**
Sample ID:		**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS Duplicate**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	34 U	-	-	-	-	-	34 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	34 U	-	-	-	-	-	34 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	34 U	-	-	-	-	-	34 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	34 U	-	-	-	-	-	34 U
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	34 U	-	-	-	-	-	34 U
Pesticides													
4,4'-DDD	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**BH54-13**	**BH54-13**	**BH55-13**	**BH55-13**	**BH56-13**	**BH57-13**	**BH58-13**	**BH58-13**	**BH59-13**	**BH59-13**	**BH60-13**	**BH61-13**
Sample ID:		**S-38443-061813-JT-003**	**S-38443-061813-JT-004**	**S-38443-061813-JC-011**	**S-38443-061813-JC-012**	**S-38443-061813-JC-013**	**S-38443-061813-JT-005**	**S-38443-061913-JT-009**	**S-38443-061913-JT-010**	**S-38443-061913-JT-006**	**S-38443-061913-JT-007**	**S-38443-061913-JT-021**	**S-38443-061913-JC-019**
Sample Date:		**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/18/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**	**6/19/2013**
Sample Depth:		**4-6 ft BGS**	**18.5-20.5 ft BGS**	**2-4 ft BGS**	**22.5-24.5 ft BGS**	**21-23 ft BGS**	**21-23 ft BGS**	**21.5-23.5 ft BGS**	**21.5-23.5 ft BGS Duplicate**	**2-4 ft BGS**	**20.5-22.5 ft BGS**	**20-22 ft BGS**	**21.2-23.2 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**BH143-18**	**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**	**SS-130**	**SS-130**
Sample ID:		**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**
Sample Date:		**1/23/2018**	**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate										**Duplicate**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	0.37 U	0.40 U	0.21 U	-	0.21 U	0.37 U	0.21 U	0.20 U	750 U	-	0.80 U	0.81 U
1,1,2-Trichloroethane	µg/kg	0.63 U	0.69 U	0.36 U	-	0.35 U	0.64 U	0.36 U	0.34 U	750 U	-	1.1 U	1.1 U
1,1-Dichloroethane	µg/kg	0.54 U	0.58 U	0.31 U	-	0.30 U	0.54 U	0.30 U	0.29 U	750 U	-	0.68 U	0.69 U
1,1-Dichloroethene	µg/kg	0.88 U	0.95 U	0.50 U	-	0.49 U	0.88 U	0.50 U	0.47 U	750 U	-	0.88 U	0.89 U
1,2,4-Trichlorobenzene	µg/kg	0.39 U	0.42 U	0.22 U	-	0.22 U	0.39 U	0.22 U	0.21 U	**38 J**	-	0.56 U	0.57 U
1,2-Dichlorobenzene	µg/kg	0.36 U	0.39 U	0.20 U	-	0.20 U	0.36 U	0.20 U	0.19 U	**57 J**	-	1.1 U	1.1 U
1,2-Dichloroethane	µg/kg	0.47 U	0.51 U	0.27 U	-	0.26 U	0.47 U	0.27 U	0.25 U	750 U	-	0.75 U	0.76 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	0.50 U	0.55 U	0.29 U	-	0.28 U	0.50 U	0.28 U	0.27 U	750 U	-	0.83 U	0.84 U
1,3-Dichlorobenzene	µg/kg	0.47 U	0.51 U	0.27 U	-	0.26 U	0.47 U	0.27 U	0.25 U	750 U	-	0.80 U	0.81 U
1,4-Dichlorobenzene	µg/kg	0.57 U	0.62 U	0.33 U	-	0.32 U	0.57 U	0.32 U	0.31 U	750 U	-	0.86 U	0.87 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**16 J**	**28 J**	**3.0 J**	-	**2.9 J**	2.1 U	1.2 U	1.1 U	3000 U	-	**10 J**	**8.3 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.4 U	1.6 U	0.83 U	-	0.80 U	1.4 U	0.82 U	0.78 U	3000 U	-	3.6 U	3.7 U
Acetone	µg/kg	**71 J**	**120 J**	**9.4 J**	-	**5.4 J**	20 U	2.8 U	2.7 U	3000 U	-	21 U	21 U
Benzene	µg/kg	0.52 U	**0.62 J**	0.30 U	-	0.29 U	0.52 U	0.29 U	0.28 U	750 U	-	0.68 U	0.69 U
Carbon disulfide	µg/kg	**1.8 J**	**1.6 J**	0.20 U	-	0.19 U	**1.3 J**	0.19 U	0.18 U	750 U	-	1.1 U	1.2 U
Carbon tetrachloride	µg/kg	0.41 U	0.44 U	0.23 U	-	0.23 U	0.41 U	0.23 U	0.22 U	750 U	-	3.2 U	3.2 U
Chlorobenzene	µg/kg	0.54 U	0.58 U	0.31 U	-	0.30 U	0.54 U	0.30 U	0.29 U	**51 J**	-	0.89 U	0.91 U
Chloroethane	µg/kg	0.62 U	0.67 U	0.35 U	-	0.34 U	0.62 U	0.35 U	0.33 U	750 U	-	1.2 U	1.2 U
Chloroform (Trichloromethane)	µg/kg	0.37 U	0.40 U	0.21 U	-	0.21 U	0.37 U	0.21 U	0.20 U	750 U	-	0.77 U	0.78 U
cis-1,2-Dichloroethene	µg/kg	0.45 U	0.49 U	**0.36 J**	-	**0.65 J**	**17**	**1.8 J**	0.24 U	750 U	-	0.64 U	0.64 U
Cyclohexane	µg/kg	0.34 U	0.37 U	0.20 U	-	0.19 U	0.34 U	0.19 U	0.18 U	**56 J**	-	1.3 U	1.4 U
Ethylbenzene	µg/kg	0.44 U	0.47 U	0.25 U	-	0.24 U	0.44 U	0.25 U	0.24 U	**44 J**	-	1.0 U	1.0 U
Isopropyl benzene	µg/kg	0.32 U	0.35 U	0.19 U	-	0.18 U	0.33 U	0.18 U	0.17 U	**1800**	-	0.81 U	0.82 U
Methyl acetate	µg/kg	1.9 U	2.1 U	1.1 U	-	1.1 U	1.9 U	1.1 U	1.0 U	1500 U	-	3.3 U	3.4 U
Methyl cyclohexane	µg/kg	0.37 U	0.40 U	0.21 U	-	0.21 U	**2.3 J**	0.21 U	0.20 U	**2800**	-	1.2 U	1.2 U
Methyl tert butyl ether (MTBE)	µg/kg	0.44 U	0.47 U	0.25 U	-	0.24 U	0.44 U	0.25 U	0.24 U	3000 U	-	0.80 U	0.81 U
Methylene chloride	µg/kg	**55**	**63**	5.8 U	-	5.6 U	9.7 U	5.0 U	5.1 U	750 U	-	12 U	12 U
Styrene	µg/kg	0.44 U	0.47 U	0.25 U	-	0.24 U	0.44 U	0.25 U	0.24 U	750 U	-	1.1 U	1.1 U
Tetrachloroethene	µg/kg	0.60 U	0.65 U	0.34 U	-	0.33 U	0.60 U	0.34 U	0.32 U	750 U	-	0.71 U	0.72 U
Toluene	µg/kg	**0.77 J**	**1.3 J**	0.32 U	-	0.31 U	**3.8 J**	**0.59 J**	**0.67 J**	750 U	-	0.75 U	0.76 U
trans-1,2-Dichloroethene	µg/kg	0.62 U	0.67 U	0.35 U	-	0.34 U	0.62 U	0.35 U	0.33 U	750 U	-	0.45 U	0.46 U
Trichloroethene	µg/kg	0.67 U	0.72 U	0.38 U	-	**0.64 J**	0.67 U	**13**	0.36 U	750 U	-	0.62 U	0.63 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.39 U	0.42 U	0.22 U	-	0.22 U	0.39 U	0.22 UJ	0.21 UJ	750 UJ	-	1.1 U	1.1 U
Trifluorotrichloroethane (CFC-113)	µg/kg	0.80 U	0.86 U	0.46 U	-	0.44 U	0.80 U	0.45 U	0.43 U	750 U	-	1.3 U	1.3 U
Vinyl chloride	µg/kg	0.45 U	0.49 U	0.26 U	-	0.25 U	**1.9 J**	0.26 U	0.24 U	750 U	-	0.82 U	0.83 U
Xylenes (total)	µg/kg	0.65 U	0.70 U	0.37 U	-	0.36 U	**2.2 J**	0.37 U	0.35 U	**950 J**	-	1.5 U	1.6 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	**1400 J**	**490 J**	24 U	-	23 U	-	-	-	1600 U	-	46 U	48 U
2-Chlorophenol	µg/kg	220 U	47 U	10 U	-	9.6 U	-	-	-	530 U	-	12 U	12 U
2-Methylnaphthalene	µg/kg	**510**	**180**	**82**	-	0.58 U	-	-	-	**660**	-	**14 J**	**14 J**
2-Methylphenol	µg/kg	**330 J**	**88 J**	13 U	-	13 U	-	-	-	2100 U	-	36 U	37 U
3&4-Methylphenol	µg/kg	**23000**	**3900**	24 U	-	23 U	-	-	-	-	-	33 U	35 U
3,3'-Dichlorobenzidine	µg/kg	**890 J**	100 U	22 U	-	21 U	-	-	-	1100 U	-	50 U	51 U
Acenaphthene	µg/kg	**170 J**	**55**	0.92 U	-	0.89 U	-	-	-	71 U	-	**12 J**	**23**
Acenaphthylene	µg/kg	9.3 U	2.0 U	0.43 U	-	0.41 U	-	-	-	71 U	-	**6.5 J**	4.8 U
Acetophenone	µg/kg	250 U	53 U	11 U	-	11 U	-	-	-	1100 U	-	13 U	13 U
Anthracene	µg/kg	**230**	4.5 U	**4.4 J**	-	0.91 U	-	-	-	71 U	-	**32**	**94**
Benzaldehyde	µg/kg	320 U	**92 J**	15 U	-	14 U	-	-	-	1100 U	-	27 U	27 U
Benzo(a)anthracene	µg/kg	**440 J**	**35 J**	**11**	-	0.73 U	-	-	-	71 U	-	**120**	**150**
Benzo(a)pyrene	µg/kg	**490 J**	3.7 UJ	**15**	-	0.75 U	-	-	-	71 U	-	**120**	**110**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)
Sample Location:		**BH143-18**	**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**	**SS-130**	**SS-130**
Sample ID:		**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**
Sample Date:		**1/23/2018**	**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate										**Duplicate**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	**650 J**	**57 J**	**21**	-	0.69 U	-	-	-	71 U	-	**180**	**150**
Benzo(g,h,i)perylene	µg/kg	**390 J**	2.0 UJ	**14**	-	0.41 U	-	-	-	71 U	-	**99**	**78**
Benzo(k)fluoranthene	µg/kg	**300**	**23 J**	**8.2**	-	0.79 U	-	-	-	71 U	-	**70**	**71**
Biphenyl (1,1-Biphenyl)	µg/kg	**160 J**	**34 J**	**43 J**	-	4.1 U	-	-	-	530 U	-	20 U	20 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	510 U	110 U	**28 J**	-	22 U	-	-	-	**240 J**	-	59 U	61 U
Butyl benzylphthalate (BBP)	µg/kg	270 U	57 U	12 U	-	12 U	-	-	-	530 U	-	25 U	26 U
Caprolactam	µg/kg	990 U	210 U	45 U	-	43 U	-	-	-	3500 U	-	87 U	89 U
Carbazole	µg/kg	720 U	150 U	33 U	-	31 U	-	-	-	530 U	-	**25 J**	**45 J**
Chrysene	µg/kg	**590 J**	**26 J**	**16**	-	1.3 U	-	-	-	71 U	-	**140**	**140**
Dibenz(a,h)anthracene	µg/kg	18 U	3.8 U	0.80 U	-	0.77 U	-	-	-	71 U	-	8.0 U	**18**
Dibenzofuran	µg/kg	**220 J**	3.8 U	0.80 U	-	0.77 U	-	-	-	530 U	-	15 U	**28 J**
Diethyl phthalate	µg/kg	**1100 J**	91 U	39 U	-	19 U	-	-	-	530 U	-	36 U	37 U
Dimethyl phthalate	µg/kg	450 U	97 U	21 U	-	20 U	-	-	-	530 U	-	16 U	17 U
Di-n-butylphthalate (DBP)	µg/kg	**2400**	86 U	18 U	-	17 U	-	-	-	530 U	-	25 U	26 U
Di-n-octyl phthalate (DnOP)	µg/kg	210 U	45 U	9.6 U	-	9.2 U	-	-	-	530 U	-	32 U	33 U
Fluoranthene	µg/kg	**1200 J**	**70 J**	**33**	-	0.64 U	-	-	-	**130**	-	**270**	**400**
Fluorene	µg/kg	**240**	**23 J**	**5.8 J**	-	0.62 U	-	-	-	71 U	-	**12 J**	**52 J**
Hexachlorobenzene	µg/kg	56 U	12 U	2.6 U	-	2.4 U	-	-	-	71 U	-	3.3 U	3.4 U
Hexachlorobutadiene	µg/kg	150 U	32 U	6.8 U	-	6.5 U	-	-	-	530 U	-	14 U	14 U
Indeno(1,2,3-cd)pyrene	µg/kg	**320**	2.0 U	**11**	-	0.41 U	-	-	-	71 U	-	**92**	**67**
Isophorone	µg/kg	350 U	74 U	16 U	-	15 U	-	-	-	530 U	-	14 U	14 U
Naphthalene	µg/kg	**1700**	**830**	**280**	-	0.96 U	-	-	-	**600**	-	**15 J**	**14 J**
N-Nitrosodiphenylamine	µg/kg	560 U	120 U	26 U	-	24 U	-	-	-	530 U	-	14 U	14 U
Pentachlorophenol	µg/kg	240 U	52 U	11 U	-	11 U	-	-	-	1600 U	-	67 U	69 U
Phenanthrene	µg/kg	**1300 J**	**82 J**	**42**	-	0.85 U	-	-	-	**210**	-	**160**	**380**
Phenol	µg/kg	**1400**	**260 J**	8.9 U	-	8.5 U	-	-	-	530 U	-	9.2 U	9.5 U
Pyrene	µg/kg	**900 J**	**48 J**	**26**	-	0.51 U	-	-	-	**100**	-	**260**	**280**
Metals													
Aluminum	mg/kg	**6700**	**9100**	**9000**	-	**12000**	-	-	-	-	-	**12000**	**13000**
Antimony	mg/kg	**1.7**	**1.7**	**2.3**	-	**0.23 J**	-	-	-	-	-	**0.42 J**	**0.24 J**
Arsenic	mg/kg	**54**	**49**	**15**	-	**12**	-	-	-	**5.5 J**	-	**9.5**	**12**
Barium	mg/kg	**260**	**320**	**210**	-	**93**	-	-	-	-	-	**94**	**83**
Beryllium	mg/kg	**4.9**	**5.8**	**1.2**	-	**0.69**	-	-	-	-	-	**0.92**	**0.95**
Cadmium	mg/kg	**1.1 J**	**0.31 J**	**0.77**	-	**0.24**	-	-	-	-	-	**0.60**	**0.20**
Calcium	mg/kg	**14000**	**13000**	**4300**	-	**9400**	-	-	-	-	-	**8400**	**47000**
Chromium	mg/kg	**26**	**33**	**21**	-	**16**	-	-	-	-	-	**21**	**18**
Chromium III (trivalent)	mg/kg	**26**	**32**	**21**	-	**16**	-	-	-	-	-	**20**	**18**
Chromium VI (hexavalent)	mg/kg	0.32 U	**0.75 J**	**0.38 J**	-	1.4 U	-	-	-	-	-	**0.74 J**	0.29 U
Cobalt	mg/kg	**13**	**16**	**8.6**	-	**7.4**	-	-	-	-	-	**8.5**	**8.6**
Copper	mg/kg	**65**	**59**	**170**	-	**22**	-	-	-	-	-	**41**	**20**
Iron	mg/kg	**11000**	**14000**	**24000**	-	**23000**	-	-	-	-	-	**21000**	**25000**
Lead	mg/kg	**91**	**34**	**190**	-	**16**	-	-	-	**7.0 J**	-	**170**	**25**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**1200**	**1000**	**2500**	-	**6600**	-	-	-	-	-	**5400**	**19000**
Manganese	mg/kg	**59**	**66**	**340**	-	**560**	-	-	-	-	-	**360**	**450**
Mercury	mg/kg	**1.7 J**	**0.42 J**	**0.057 J**	-	0.024 U	-	-	-	-	-	**6.1**	**0.30**
Nickel	mg/kg	**21**	**25**	**23**	-	**16**	-	-	-	-	-	**18**	**19**
Potassium	mg/kg	**690**	**1000**	**730**	-	**1100**	-	-	-	-	-	**1000**	**950**
Selenium	mg/kg	**21**	**15**	**2.6**	-	**1.0 J**	-	-	-	-	-	**0.79 J**	**1.1**
Silver	mg/kg	**0.32 J**	**0.087 J**	**0.21**	-	**0.036 J**	-	-	-	-	-	**0.22**	**0.043 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**BH143-18**	**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**	**SS-130**	**SS-130**
Sample ID:		**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**
Sample Date:		**1/23/2018**	**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate										**Duplicate**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	**550**	**810**	**950**	-	58 U	-	-	-	-	-	**64 J**	**89 J**
Thallium	mg/kg	**1.2**	**1.4**	**0.34**	-	**0.19 J**	-	-	-	-	-	**0.25**	**0.29**
Vanadium	mg/kg	**61**	**73**	**31**	-	**29**	-	-	-	-	-	**29**	**31**
Zinc	mg/kg	**89**	**31**	**390**	-	**76**	-	-	-	-	-	**92**	**58**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	31 U	330 U	28 U	-	26 U	-	-	-	35 U	-	27 U	28 U
Aroclor-1242 (PCB-1242)	µg/kg	**230 J**	270 U	23 U	-	22 U	-	-	-	35 U	-	23 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	33 U	340 U	29 U	-	28 U	-	-	-	35 U	-	29 U	29 U
Aroclor-1254 (PCB-1254)	µg/kg	**560**	330 U	28 U	-	26 U	-	-	-	**40**	-	27 U	**86**
Aroclor-1260 (PCB-1260)	µg/kg	30 U	310 U	27 U	-	25 U	-	-	-	35 U	-	26 U	27 U
Pesticides													
4,4'-DDD	µg/kg	4.4 U	4.6 UJ	4.0 U	-	3.9 U	-	-	-	1.8 U	-	1.8 U	**2.0 NJ**
4,4'-DDE	µg/kg	1.6 U	1.7 U	1.5 U	-	1.4 U	-	-	-	**1.6 J**	-	1.8 U	**2.3 J**
4,4'-DDT	µg/kg	**5.1 J**	1.9 U	1.7 U	-	1.6 U	-	-	-	1.8 U	-	1.3 U	**6.2 J**
alpha-BHC	µg/kg	2.1 U	2.2 UJ	1.9 U	-	1.9 U	-	-	-	1.8 U	-	1.1 U	1.1 U
alpha-Chlordane	µg/kg	5.1 U	5.3 U	4.6 U	-	4.4 U	-	-	-	1.8 U	-	1.8 U	1.8 U
beta-BHC	µg/kg	5.2 U	5.4 U	4.7 U	-	4.6 U	-	-	-	1.8 U	-	2.1 U	2.1 U
delta-BHC	µg/kg	170 U	1.8 U	79 U	-	1.5 U	-	-	-	1.8 U	-	2.0 U	2.0 U
Dieldrin	µg/kg	1.2 U	1.3 U	1.1 U	-	1.1 U	-	-	-	1.8 U	-	1.3 U	1.3 U
Endosulfan I	µg/kg	1.7 U	1.8 U	1.6 U	-	1.5 U	-	-	-	1.8 U	-	1.4 U	1.5 U
Endosulfan II	µg/kg	2.4 U	2.5 U	2.2 U	-	2.1 U	-	-	-	1.8 U	-	1.8 U	1.8 U
Endosulfan sulfate	µg/kg	160 U	83 U	73 U	-	1.4 U	-	-	-	1.8 U	-	1.5 U	1.6 U
Endrin	µg/kg	1.9 U	1.9 U	1.7 U	-	1.6 U	-	-	-	1.8 U	-	2.3 U	2.3 U
Endrin aldehyde	µg/kg	240 U	130 U	110 U	-	2.1 U	-	-	-	1.8 U	-	**2.1 NJ**	1.6 U
Endrin ketone	µg/kg	1.5 U	1.5 U	1.3 U	-	1.3 U	-	-	-	1.8 U	-	1.1 U	1.1 U
gamma-BHC (lindane)	µg/kg	3.9 U	4.0 UJ	3.5 U	-	3.4 U	-	-	-	1.8 U	-	2.1 U	2.2 U
gamma-Chlordane	µg/kg	2.0 U	2.1 U	1.8 U	-	1.8 U	-	-	-	1.8 U	-	1.5 U	1.5 U
Heptachlor epoxide	µg/kg	3.2 U	3.3 U	2.9 U	-	2.8 U	-	-	-	1.8 U	-	1.7 U	1.7 U
Methoxychlor	µg/kg	1.6 UJ	1.7 U	1.5 U	-	1.4 U	-	-	-	3.5 U	-	7.8 U	8.0 UJ
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	21 U	16 U	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	**1400000**	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	**410000 J**	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	0.39 U	**3.5 J**	**1.3 J**	-	**1.5 J**	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**57**	**81 J**	**4.9 J**	-	**34**	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**1.0 J**	**3.4 J**	**1.4 J**	-	**4.3 J**	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**5.2 J**	**7.2 J**	0.23 UJ	-	**16**	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.099 UJ	0.30 UJ	0.12 UJ	-	0.11 U	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.074 UJ	0.24 UJ	0.13 UJ	-	**1.5 J**	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.065 U	0.019 UJ	0.27 UJ	-	**0.43 J**	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.069 U	0.22 UJ	**0.51 J**	-	**2.0 J**	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.070 U	0.021 UJ	0.28 UJ	-	**2.7 J**	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.088 U	0.32 UJ	0.17 UJ	-	0.28 U	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	0.063 U	0.019 UJ	0.26 UJ	-	**3.3 J**	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.16 U	0.16 UJ	0.22 UJ	-	**0.71 J**	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.17 U	0.46 UJ	0.33 U	-	**1.0 J**	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	0.074 U	0.22 UJ	0.13 UJ	-	**1.5 J**	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	0.14 U	0.13 UJ	0.18 UJ	-	**1.8 J**	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	0.30 UJ	0.37 U	0.36 U	-	0.29 U	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)
Sample Location:		**BH143-18**	**BH143-18**	**BH144-18**	**BH144-18**	**BH145-18**	**GP19-18**	**GP20-18**	**GP33-18**	**MW-219**	**SS-125**	**SS-130**	**SS-130**
Sample ID:		**S-38443-012318-JC-061**	**S-38443-012318-JC-062**	**S-38443-012218-JC-057**	**S-38443-012218-JC-057**	**S-38443-012218-JC-059**	**S-38443-012418-JC-063**	**S-38443-012218-JC-060**	**S-38443-012218-JC-058**	**S-38443-120409-DR-001**	**SS-38443-102918-JC-125**	**SS-38443-102918-JC-130**	**SS-38443-102918-JC-114**
Sample Date:		**1/23/2018**	**1/23/2018**	**1/22/2018**	**1/22/2018**	**1/22/2018**	**1/24/2018**	**1/22/2018**	**1/22/2018**	**12/4/2009**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**10-12 ft BGS**	**10-12 ft BGS**	**14.5-16.5 ft BGS**	**15.5-16.5 ft BGS**	**9-11 ft BGS**	**11-12 ft bgs**	**11-12 ft bgs**	**17.5-18.5 ft bgs**	**24-26 ft BGS**	**0-2 ft BGS**	**0.25-2.25 ft BGS**	**0.25-2.25 ft BGS**
			Duplicate										**Duplicate**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	0.43 U	0.58 U	0.62 U	-	0.34 U	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**1.9 J**	**6.0 J**	**1.4 J**	-	**7.1 J**	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**10 J**	**14 J**	0.23 U	-	**26 J**	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**1.5 J**	**1.3 J**	**2.7 J**	-	**54 J**	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1.6 J**	**1.6 J**	0.28 U	-	**24 J**	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**2.4 J**	**3.6 J**	**4.4 J**	-	**120 J**	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	0.17 U	0.46 U	0.33 U	-	**5.0 J**	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**4.7 J**	**3.5 J**	**7.2 J**	-	**200 J**	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**0.79 J**	0.58 U	0.62 U	-	**2.1 J**	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**2.1 J**	**0.40 J**	0.16 U	-	0.12 U	-	-	-	-	-	0.23 U	0.24 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	**2.9**	**0.2**	**0.3**	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	**94.0**	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**
Sample ID:		**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**
Sample Date:		**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS Duplicate**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	23 U	69 U	43 U	R	R	18 U	24 U	1.2 U	1.1 U	0.82 U	-
1,1,2-Trichloroethane	µg/kg	21 U	57 U	35 U	R	R	17 U	22 U	1.6 U	1.5 U	1.1 U	-
1,1-Dichloroethane	µg/kg	15 U	76 U	47 U	R	**5.3 J**	12 U	15 U	0.99 U	0.91 U	0.69 U	-
1,1-Dichloroethene	µg/kg	25 U	89 U	55 U	R	R	19 U	26 U	1.3 U	1.2 U	0.90 U	-
1,2,4-Trichlorobenzene	µg/kg	220 U	64 U	40 U	R	R	170 U	230 U	R	R	0.57 U	-
1,2-Dichlorobenzene	µg/kg	34 U	44 U	27 U	R	R	27 U	36 U	R	R	1.1 U	-
1,2-Dichloroethane	µg/kg	20 U	74 U	46 U	R	R	16 U	20 U	1.1 U	1.0 U	0.77 U	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	13 U	74 U	46 U	R	R	10 U	14 U	1.2 U	1.1 U	0.85 U	-
1,3-Dichlorobenzene	µg/kg	34 U	94 U	58 U	R	**2.1 J**	27 U	36 U	R	R	0.81 U	-
1,4-Dichlorobenzene	µg/kg	28 U	67 U	41 U	R	R	22 U	29 U	R	R	0.88 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	260 U	120 U	**85 J**	**18 J**	**46 J**	200 U	270 U	**17 J**	**14 J**	**12 J**	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	390 U	99 U	61 U	R	R	310 U	410 U	5.3 U	4.9 U	3.7 U	-
Acetone	µg/kg	400 U	240 U	150 U	R	R	320 U	420 U	30 U	28 U	21 U	-
Benzene	µg/kg	13 U	59 U	37 U	R	**21 J**	**14 J**	14 U	**1.3 J**	0.92 U	0.70 U	-
Carbon disulfide	µg/kg	180 U	44 U	27 U	R	R	140 U	180 U	1.7 U	1.5 U	1.2 U	-
Carbon tetrachloride	µg/kg	30 U	67 U	41 U	R	R	23 U	31 U	4.6 U	4.3 U	3.2 U	-
Chlorobenzene	µg/kg	57 U	74 U	46 U	R	R	45 U	60 U	1.3 U	1.2 U	0.91 U	-
Chloroethane	µg/kg	250 U	69 U	43 U	R	R	190 U	260 U	1.7 U	1.6 U	1.2 U	-
Chloroform (Trichloromethane)	µg/kg	15 U	59 U	37 U	R	R	12 U	15 U	1.1 U	1.0 U	0.79 U	-
cis-1,2-Dichloroethene	µg/kg	15 U	**270 J**	**340 J**	R	R	12 U	**690**	0.93 U	0.85 U	0.65 U	-
Cyclohexane	µg/kg	270 U	74 U	**46 J**	R	R	210 U	280 U	2.0 U	1.8 U	1.4 U	-
Ethylbenzene	µg/kg	20 U	86 U	53 U	R	R	16 U	33 U	1.5 U	1.4 U	1.0 U	-
Isopropyl benzene	µg/kg	62 U	84 U	52 U	R	R	49 U	**85 J**	1.2 U	1.1 U	0.83 U	-
Methyl acetate	µg/kg	860 U	180 U	110 U	R	R	680 U	900 U	4.8 U	4.5 U	3.4 U	-
Methyl cyclohexane	µg/kg	110 U	**160 J**	**160 J**	R	R	85 U	110 U	1.7 U	1.6 U	1.2 U	-
Methyl tert butyl ether (MTBE)	µg/kg	61 U	64 U	40 U	R	R	48 U	63 U	1.2 U	1.1 U	0.82 U	-
Methylene chloride	µg/kg	630 U	**470 J**	**280 J**	R	R	500 U	650 U	17 U	16 U	12 U	-
Styrene	µg/kg	20 U	25 U	15 U	R	R	16 U	20 U	1.7 U	1.5 U	1.2 U	-
Tetrachloroethene	µg/kg	**76 J**	52 U	32 U	**1.2 J**	R	**99 J**	26 U	**4.0 J**	**2.6 J**	0.73 U	-
Toluene	µg/kg	74 U	**90 J**	**110 J**	R	R	67 U	110 U	**1.5 J**	1.0 U	0.77 U	-
trans-1,2-Dichloroethene	µg/kg	25 U	86 U	53 U	R	R	19 U	**56 J**	0.66 U	0.61 U	0.46 U	-
Trichloroethene	µg/kg	**850**	**3200**	**3600**	**3.7 J**	R	**3000**	**700**	**8.1**	**3.7 J**	0.63 U	-
Trichlorofluoromethane (CFC-11)	µg/kg	75 U	84 U	52 U	R	R	60 U	78 U	1.5 U	1.4 U	1.1 U	-
Trifluorotrichloroethane (CFC-113)	µg/kg	110 U	57 U	35 U	R	R	87 U	110 U	1.8 U	1.7 U	1.3 U	-
Vinyl chloride	µg/kg	16 U	42 U	26 U	R	R	13 U	**54 J**	1.2 U	1.1 U	0.83 U	-
Xylenes (total)	µg/kg	38 U	69 U	**140 J**	R	R	30 U	**230 J**	2.3 U	2.1 U	1.6 U	-
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	41 U	420 U	140 U	42 U	54 U	46 U	620 U	50 U	87 U	42 U	-
2-Chlorophenol	µg/kg	10 U	170 U	59 U	10 U	14 U	11 U	160 U	13 U	22 U	11 U	-
2-Methylnaphthalene	µg/kg	**6.7 J**	**380**	**310**	**730**	2.7 U	**69**	**120 J**	**87**	**160**	**14 J**	-
2-Methylphenol	µg/kg	32 U	230 U	79 U	32 U	42 U	36 U	480 U	39 U	67 U	33 U	-
3&4-Methylphenol	µg/kg	30 U	420 U	140 U	30 U	39 U	33 U	450 U	36 U	63 U	31 U	-
3,3'-Dichlorobenzidine	µg/kg	45 U	380 U	130 U	45 U	58 U	49 U	670 U	54 U	93 U	45 U	-
Acenaphthene	µg/kg	**19**	**1400 J**	**360 J**	3.0 U	3.9 U	**4.9 J**	44 U	3.6 U	**19 J**	3.0 U	-
Acenaphthylene	µg/kg	4.2 U	**97 J**	**65**	**32**	5.4 U	**5.8 J**	62 U	**6.8 J**	**91**	**5.7 J**	-
Acetophenone	µg/kg	11 U	190 U	66 U	11 U	15 U	13 U	170 U	**110 J**	24 U	12 U	-
Anthracene	µg/kg	**70**	**3600 J**	**1100 J**	**43**	3.3 U	**11 J**	37 U	**4.8 J**	**110**	**7.4 J**	-
Benzaldehyde	µg/kg	24 U	250 U	86 U	24 U	31 U	26 U	360 U	29 U	50 U	24 U	-
Benzo(a)anthracene	µg/kg	**180**	**9600**	**4500**	**200**	4.6 U	**79**	**260**	**36**	**600**	**34**	-
Benzo(a)pyrene	µg/kg	**140**	**8500**	**4200**	**220**	13 U	**88**	**320**	**41**	**690**	**34**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**
Sample ID:		**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**
Sample Date:		**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS Duplicate**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**190**	**12000**	**5700**	**400**	8.8 U	**160**	**370**	**83**	**1100**	**57**	-
Benzo(g,h,i)perylene	µg/kg	**100**	**6100**	**3400**	**260**	9.6 U	**77**	**220 J**	**61**	**570**	**46**	-
Benzo(k)fluoranthene	µg/kg	**89**	**4200**	**2200**	**120**	9.4 U	**41**	**180 J**	**21**	**340**	**17**	-
Biphenyl (1,1-Biphenyl)	µg/kg	18 U	74 U	**86 J**	**49 J**	23 U	19 U	260 U	21 U	37 U	18 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	53 U	400 U	**230 J**	53 U	69 U	58 U	**17000**	64 U	**110 J**	**140**	-
Butyl benzylphthalate (BBP)	µg/kg	23 U	210 U	71 U	23 U	30 U	25 U	340 U	28 U	48 U	23 U	-
Caprolactam	µg/kg	78 U	780 U	260 U	78 U	100 U	86 U	1200 U	94 U	160 U	79 U	-
Carbazole	µg/kg	**33 J**	**1500**	**550**	20 U	26 U	22 U	290 U	24 U	**50 J**	20 U	-
Chrysene	µg/kg	**170**	**9300**	**4600**	**270**	2.0 U	**110**	**360**	**78**	**730**	**44**	-
Dibenz(a,h)anthracene	µg/kg	**29**	**1600**	**860**	**70**	9.4 U	**24**	110 U	8.7 U	**140**	7.3 U	-
Dibenzofuran	µg/kg	**14 J**	**780 J**	**260 J**	**180**	18 U	**20 J**	200 U	**16 J**	**50 J**	14 U	-
Diethyl phthalate	µg/kg	**380**	**350 J**	110 U	32 U	42 U	36 U	480 U	39 U	67 U	33 U	-
Dimethyl phthalate	µg/kg	15 U	360 U	120 U	15 U	19 U	16 U	220 U	18 U	30 U	15 U	-
Di-n-butylphthalate (DBP)	µg/kg	23 U	**360 J**	**180 J**	**27 J**	30 U	25 U	340 U	**28 J**	48 U	23 U	-
Di-n-octyl phthalate (DnOP)	µg/kg	29 U	170 U	56 U	29 U	38 U	32 U	430 U	35 U	61 U	30 U	-
Fluoranthene	µg/kg	**390**	**21000**	**9200**	**270**	6.0 U	**190**	**390**	**51**	**1000**	**66**	-
Fluorene	µg/kg	**21**	**1300 J**	**350 J**	**16**	3.7 U	**4.8 J**	43 U	3.4 U	**20 J**	2.9 U	-
Hexachlorobenzene	µg/kg	3.0 U	44 U	15 U	3.0 U	3.9 U	3.3 U	44 U	3.6 U	6.2 U	3.0 U	-
Hexachlorobutadiene	µg/kg	12 U	120 U	40 U	13 U	16 U	14 U	190 U	15 U	26 U	13 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	**84**	**5300**	**3000**	**200**	10 U	**69**	**240**	**38**	**460**	**29**	-
Isophorone	µg/kg	12 U	270 U	93 U	13 U	16 U	14 U	190 U	15 U	26 U	13 U	-
Naphthalene	µg/kg	**9.2 J**	**330**	**300**	**400**	3.3 U	**41**	**130 J**	**78**	**120**	**9.8 J**	-
N-Nitrosodiphenylamine	µg/kg	12 U	440 U	150 U	13 U	16 U	14 U	190 U	15 U	26 U	13 U	-
Pentachlorophenol	µg/kg	60 U	190 U	65 U	61 U	79 U	67 U	900 U	73 U	130 U	61 U	-
Phenanthrene	µg/kg	**260**	**13000**	**4800**	**400**	3.0 U	**140**	**250**	**77**	**480**	**35**	-
Phenol	µg/kg	8.3 U	150 U	52 U	8.3 U	11 U	9.2 U	120 U	10 U	17 U	8.4 U	-
Pyrene	µg/kg	**310**	**18000**	**7700**	**220**	2.9 U	**160**	**330**	**39**	**840**	**57**	-
Metals												
Aluminum	mg/kg	**2800**	**7100**	**6600**	**6400**	**7200**	**5000**	**10000**	**8600**	**6400**	**4700**	-
Antimony	mg/kg	**0.49**	**8.1 J**	**5.7 J**	**3.2**	**1.3**	**0.29 J**	**12**	**4.4**	**4.8**	**1.0**	-
Arsenic	mg/kg	**4.7**	**26**	**27**	**11**	**17**	**6.2**	**24**	**19**	**9.5**	**9.2**	-
Barium	mg/kg	**160**	**990**	**970**	**1200**	**180**	**54**	**2900**	**720**	**760**	**100**	-
Beryllium	mg/kg	**0.28**	**0.86**	**0.86**	**0.81**	**3.9**	**0.38**	**1.0**	**2.2**	**0.63**	**0.30**	-
Cadmium	mg/kg	**0.28**	**5.2**	**4.4**	**3.7**	**1.2**	**0.27**	**16**	**3.5**	**3.8**	**1.4**	-
Calcium	mg/kg	**130000**	**71000**	**82000**	**54000**	**1500**	**100000**	**79000**	**17000**	**100000**	**120000**	-
Chromium	mg/kg	**9.6**	**48**	**36**	**33**	**20**	**10**	**210**	**65**	**37**	**13**	-
Chromium III (trivalent)	mg/kg	**9.6**	-	-	**33**	**19**	**9.0**	**210**	**65**	**37**	**12**	-
Chromium VI (hexavalent)	mg/kg	0.25 U	-	-	**0.86**	**0.77 J**	**0.99**	1.5 U	1.5 U	1.3 U	**0.90**	-
Cobalt	mg/kg	**3.2**	**13**	**10**	**8.4**	**11**	**4.2**	**29**	**24**	**9.0**	**3.9**	-
Copper	mg/kg	**25**	**870**	**730**	**490**	**36**	**17**	**2900**	**730**	**620**	**130**	-
Iron	mg/kg	**8800**	**40000**	**25000**	**28000**	**9700**	**12000**	**100000**	**110000**	**26000**	**15000**	-
Lead	mg/kg	**20**	**2600 J**	**840 J**	**510**	**15**	**21**	**2200**	**490**	**720**	**220**	-
Lead - coarse fraction	mg/kg	**18**	-	-	-	-	-	**2000**	-	**1600**	-	-
Lead - fine fraction	mg/kg	**26**	-	-	-	-	-	**2700**	-	**2000**	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	**19**	-	-	-	-	-	**2200**	-	**1700**	-	-
Magnesium	mg/kg	**54000**	**25000**	**32000**	**16000**	**380**	**42000**	**24000**	**3200**	**42000**	**37000**	-
Manganese	mg/kg	**390**	**1100**	**1100**	**340**	**34**	**320**	**820**	**670**	**450**	**350**	-
Mercury	mg/kg	0.019 U	**0.28**	**0.24**	**0.19**	**0.22**	**0.051 J**	**0.66**	**0.28**	**0.19**	**0.021 J**	-
Nickel	mg/kg	**9.1**	**61**	**49**	**56**	**41**	**10**	**150**	**94**	**79**	**16**	-
Potassium	mg/kg	**400**	**790**	**740**	**740**	**1100**	**630**	**1000**	**1300**	**640**	**950**	-
Selenium	mg/kg	**0.38 J**	**1.3**	**1.2**	**0.93 J**	**4.4**	**0.47 J**	**2.0**	**2.3**	**0.80 J**	**0.37 J**	-
Silver	mg/kg	**0.059 J**	**1.9**	**1.7**	**1.4**	**0.14 J**	**0.060 J**	**6.3**	**0.76**	**8.2**	**0.14 J**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**
Sample Location:		**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**
Sample ID:		**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**
Sample Date:		**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS Duplicate**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**150 J**	**310**	**270**	**130 J**	**190 J**	**130 J**	**560**	**390**	**210**	**220**	-
Thallium	mg/kg	**0.075 J**	**0.36 J**	**0.33 J**	**0.26**	**0.65**	**0.13 J**	**0.22**	**0.35**	**0.21**	**0.096 J**	-
Vanadium	mg/kg	**12**	**19**	**19**	**18**	**29**	**16**	**50**	**29**	**17**	**10**	-
Zinc	mg/kg	**61**	**1500**	**1400**	**830**	**500**	**45**	**5600**	**1600**	**920**	**890**	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	24 U	33 U	17 U	23 U	32 U	26 U	140 U	30 U	**1100**	24 U	-
Aroclor-1242 (PCB-1242)	µg/kg	20 U	42 U	21 U	19 U	26 U	22 U	**1100**	25 U	200 U	20 U	-
Aroclor-1248 (PCB-1248)	µg/kg	25 U	**1900 J**	**1300 J**	24 U	33 U	28 U	150 U	32 U	260 U	25 U	-
Aroclor-1254 (PCB-1254)	µg/kg	24 U	29 U	15 U	**150**	32 U	26 U	**1800**	30 U	**410 J**	24 U	-
Aroclor-1260 (PCB-1260)	µg/kg	23 U	**1100 J**	**440 J**	22 U	30 U	**170**	140 U	29 U	240 U	**44 J**	-
Pesticides												
4,4'-DDD	µg/kg	1.6 U	35 U	35 U	7.5 U	10 U	8.5 U	9.2 U	97 U	80 U	31 U	-
4,4'-DDE	µg/kg	1.6 U	13 U	13 U	7.7 U	10 U	8.7 U	**20 NJ**	99 U	81 U	32 U	-
4,4'-DDT	µg/kg	1.2 U	15 U	15 U	5.7 U	7.8 U	6.5 U	7.0 U	74 U	61 U	24 U	-
alpha-BHC	µg/kg	0.95 U	17 U	17 U	4.6 U	6.3 U	5.2 U	5.7 U	60 U	49 U	19 U	-
alpha-Chlordane	µg/kg	1.6 U	40 U	41 U	7.6 U	10 U	8.6 U	9.4 U	99 U	81 U	32 U	-
beta-BHC	µg/kg	1.8 U	41 U	42 U	8.8 U	12 U	9.9 U	11 U	110 U	93 U	36 U	-
delta-BHC	µg/kg	1.8 U	14 U	14 U	8.6 U	12 U	9.7 U	42 U	110 U	91 U	36 U	-
Dieldrin	µg/kg	1.2 U	9.4 U	9.6 U	5.6 U	7.6 U	6.3 U	**14 NJ**	72 U	59 U	23 U	-
Endosulfan I	µg/kg	1.3 U	14 U	14 U	6.1 U	8.3 U	6.9 U	7.5 U	79 U	65 U	25 U	-
Endosulfan II	µg/kg	1.6 U	19 U	19 U	7.5 U	10 U	8.5 U	9.2 U	97 U	80 U	31 U	-
Endosulfan sulfate	µg/kg	1.3 U	13 U	13 U	6.5 U	8.8 U	7.3 U	32 U	84 U	69 U	27 U	-
Endrin	µg/kg	2.0 U	**17 NJ**	15 U	9.6 U	13 U	11 U	12 U	120 U	100 U	40 U	-
Endrin aldehyde	µg/kg	1.4 U	**36 J**	**24 J**	6.7 U	9.0 U	7.5 U	33 U	86 U	70 U	28 U	-
Endrin ketone	µg/kg	0.93 U	12 U	12 U	4.5 U	6.1 U	5.1 U	5.5 U	58 U	48 U	19 U	-
gamma-BHC (lindane)	µg/kg	1.9 U	30 U	31 U	9.1 U	12 U	10 U	11 U	120 U	96 U	38 U	-
gamma-Chlordane	µg/kg	1.3 U	16 U	16 U	6.2 U	8.5 U	7.1 U	7.7 U	81 U	66 U	26 U	-
Heptachlor epoxide	µg/kg	1.5 U	25 U	26 U	7.3 U	9.9 U	8.3 U	**9.6 NJ**	95 U	77 U	30 U	-
Methoxychlor	µg/kg	6.9 U	13 U	**20 NJ**	33 U	45 U	38 U	41 UJ	430 U	350 U	140 U	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)
Sample Location:		**SS-131**	**SS-132**	**SS-132**	**SS-133**	**SS-134**	**SS-135**	**SS-136**	**SS-137**	**SS-141**	**SS-143**	**SS-171-AS**
Sample ID:		**SS-38443-102918-JC-131**	**S-38443-110817-BW-031**	**S-38443-110817-BW-032**	**SS-38443-102918-JC-133**	**SS-38443-102918-JC-134**	**SS-38443-102918-JC-135**	**SS-38443-102918-JC-136**	**SS-38443-102918-JC-137**	**SS-38443-102918-JC-141**	**SS-38443-102918-JC-143**	**SS-38443-102918-JC-171**
Sample Date:		**10/29/2018**	**11/8/2017**	**11/8/2017**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**	**10/29/2018**
Sample Depth:		**0-2 ft BGS**	**0.7-2.7 ft BGS**	**0.7-2.7 ft BGS Duplicate**	**0.5-2.5 ft BGS**	**0.92-2.92 ft BGS**	**0.25-2.25 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	0.25 <
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.20 U	0.49 U	0.49 U	0.21 U	2.8 U	0.22 U	**41**	**6.5**	**0.62**	0.20 U	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:		**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**	**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH33-13**	**BH34-13**
Sample ID:		**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**	**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**	**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**
Sample Depth:		**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**	**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS**	**Duplicate**	**4-6 ft BGS**
Parameters	**Units**													
Volatiles														
1,1,1-Trichloroethane	µg/kg	-	-	8.4 U	4.7 U	59 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
1,1,2-Trichloroethane	µg/kg	-	-	8.4 U	4.7 U	48 U	-	240 UJ	**8.3**	5.4 U	4800 U	4200 U		5.0 U
1,1-Dichloroethane	µg/kg	-	-	8.4 U	4.7 U	65 U	-	240 U	**0.46 J**	5.4 U	4800 U	4200 U		5.0 U
1,1-Dichloroethene	µg/kg	-	-	8.4 U	4.7 U	75 U	-	240 U	**14**	5.4 U	4800 U	4200 U		5.0 U
1,2,4-Trichlorobenzene	µg/kg	-	-	8.4 UJ	4.7 U	54 U	-	240 U	6.0 UJ	5.4 U	4800 U	4200 U		5.0 U
1,2-Dichlorobenzene	µg/kg	-	-	8.4 UJ	4.7 U	38 U	-	**190 J**	6.0 UJ	5.4 U	4800 U	4200 U		5.0 U
1,2-Dichloroethane	µg/kg	-	-	8.4 U	4.7 U	63 U	-	240 U	**49**	5.4 U	4800 U	4200 U		5.0 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-		-
1,2-Dichloropropane	µg/kg	-	-	8.4 U	4.7 U	63 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
1,3-Dichlorobenzene	µg/kg	-	-	8.4 UJ	4.7 U	79 U	-	240 U	6.0 UJ	5.4 U	4800 U	4200 U		5.0 U
1,4-Dichlorobenzene	µg/kg	-	-	8.4 UJ	4.7 U	56 U	-	**45 J**	6.0 UJ	5.4 U	4800 U	4200 U		5.0 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	-	-	33 U	19 U	100 U	-	970 U	**2.8 J**	**7.3 J**	19000 U	17000 U		**15 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	-	-	33 U	19 U	84 U	-	970 UJ	24 U	21 U	19000 U	17000 U		**0.94 J**
Acetone	µg/kg	-	-	33 U	19 U	200 U	-	970 U	24 UJ	25 U	**28000**	17000 U		83 U
Benzene	µg/kg	-	-	8.4 U	4.7 U	50 U	-	240 U	**1.5 J**	5.4 U	4800 U	4200 U		5.0 U
Carbon disulfide	µg/kg	-	-	8.4 U	4.7 U	38 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
Carbon tetrachloride	µg/kg	-	-	8.4 U	4.7 U	56 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
Chlorobenzene	µg/kg	-	-	8.4 U	4.7 U	63 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
Chloroethane	µg/kg	-	-	8.4 U	4.7 U	59 U	-	240 U	6.0 U	5.4 U	4800 U	4200 UJ		5.0 U
Chloroform (Trichloromethane)	µg/kg	-	-	8.4 U	4.7 U	50 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
cis-1,2-Dichloroethene	µg/kg	-	-	**16**	4.7 U	**1000**	-	240 U	**7.4**	5.4 U	**98000**	**1000 J**		**1.2 J**
Cyclohexane	µg/kg	-	-	17 U	9.4 U	63 U	-	480 U	12 UJ	11 U	9600 U	8400 U		**1.8 J**
Ethylbenzene	µg/kg	-	-	8.4 U	4.7 U	73 U	-	240 U	6.0 U	5.4 U	**62000**	**25000**		**6.9**
Isopropyl benzene	µg/kg	-	-	8.4 U	4.7 U	71 U	-	240 U	6.0 U	5.4 U	**6400**	**4300**		**7.3**
Methyl acetate	µg/kg	-	-	17 U	9.4 U	160 U	-	480 U	12 U	11 U	9600 U	8400 U		10 U
Methyl cyclohexane	µg/kg	-	-	17 U	9.4 U	**84 J**	-	**230 J**	**4.9 J**	11 U	**1600 J**	**810 J**		**18**
Methyl tert butyl ether (MTBE)	µg/kg	-	-	33 U	19 U	54 U	-	970 U	24 U	5.4 U	4800 U	4200 U		5.0 U
Methylene chloride	µg/kg	-	-	8.4 U	4.7 U	**560**	-	240 U	**0.84 J**	5.4 U	8800 U	4900 U		5.0 UJ
Styrene	µg/kg	-	-	8.4 U	4.7 U	21 U	-	240 UJ	6.0 U	5.4 U	4800 U	4200 U		5.0 U
Tetrachloroethene	µg/kg	-	-	8.4 U	4.7 U	44 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
Toluene	µg/kg	-	-	8.4 U	4.7 U	**110 J**	-	240 U	**2.1 J**	**0.51 J**	**87000 J**	**8400 J**		**3.3 J**
trans-1,2-Dichloroethene	µg/kg	-	-	8.4 U	4.7 U	73 U	-	240 U	**0.95 J**	5.4 U	**270 J**	4200 U		5.0 U
Trichloroethene	µg/kg	-	-	**31**	**0.62 J**	**5200**	-	240 U	6.0 U	5.4 U	**5300 J**	4200 U		5.0 U
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	8.4 U	4.7 U	71 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 U
Trifluorotrichloroethane (CFC-113)	µg/kg	-	-	8.4 U	4.7 U	48 U	-	240 U	6.0 U	5.4 U	4800 U	4200 U		5.0 UJ
Vinyl chloride	µg/kg	-	-	8.4 U	4.7 U	36 U	-	240 U	**54**	5.4 U	**380 J**	4200 U		5.0 U
Xylenes (total)	µg/kg	-	-	17 U	**1.2 J**	**230 J**	-	480 U	**1.9 J**	11 U	**280000 J**	**54000 J**		**27**
Semi-Volatiles														
2,4-Dimethylphenol	µg/kg	-	-	220 U	160 U	280 U	-	-	180 UJ	-	-	-		-
2-Chlorophenol	µg/kg	-	-	74 U	54 U	120 U	-	-	60 UJ	-	-	-		-
2-Methylnaphthalene	µg/kg	-	-	9.9 U	7.2 U	**460**	-	-	**38 J**	-	-	-		-
2-Methylphenol	µg/kg	-	-	300 UJ	210 UJ	160 U	-	-	240 UJ	-	-	-		-
3&4-Methylphenol	µg/kg	-	-	-	-	280 U	-	-	-	-	-	-		-
3,3'-Dichlorobenzidine	µg/kg	-	-	150 U	110 U	250 U	-	-	120 UJ	-	-	-		-
Acenaphthene	µg/kg	-	-	9.9 U	7.2 U	**770**	-	-	8.0 UJ	-	-	-		-
Acenaphthylene	µg/kg	-	-	9.9 U	7.2 U	**95**	-	-	8.0 UJ	-	-	-		-
Acetophenone	µg/kg	-	-	150 U	110 U	130 U	-	-	120 UJ	-	-	-		-
Anthracene	µg/kg	-	-	9.9 U	7.2 U	**2000**	-	-	8.0 UJ	-	-	-		-
Benzaldehyde	µg/kg	-	-	150 U	110 U	170 U	-	-	120 UJ	-	-	-		-
Benzo(a)anthracene	µg/kg	-	-	9.9 U	7.2 U	**4900**	-	-	**11 J**	-	-	-		-
Benzo(a)pyrene	µg/kg	-	-	9.9 U	7.2 U	**4200**	-	-	8.0 UJ	-	-	-		-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU15)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:		**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**	**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**
Sample ID:		**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**	**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**	**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**
Sample Depth:		**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**	**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS Duplicate**	**4-6 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	9.9 U	7.2 U	**6100**	-	-	**9.0 J**	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	9.9 U	7.2 U	**3300**	-	-	8.0 UJ	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	9.9 U	7.2 U	**2100**	-	-	8.0 UJ	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	74 U	54 U	49 U	-	-	60 UJ	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	74 U	54 U	**380 J**	-	-	60 UJ	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	74 U	54 U	140 U	-	-	60 UJ	-	-	-	-
Caprolactam	µg/kg	-	-	490 U	350 U	520 U	-	-	400 UJ	-	-	-	-
Carbazole	µg/kg	-	-	74 U	54 U	**860**	-	-	60 UJ	-	-	-	-
Chrysene	µg/kg	-	-	9.9 U	7.2 U	**4800**	-	-	**11 J**	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	9.9 U	7.2 U	**680**	-	-	8.0 UJ	-	-	-	-
Dibenzofuran	µg/kg	-	-	74 U	54 U	**600 J**	-	-	60 UJ	-	-	-	-
Diethyl phthalate	µg/kg	-	-	74 U	54 U	**430 J**	-	-	60 UJ	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	74 U	54 U	240 U	-	-	60 UJ	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	74 U	54 U	**320 J**	-	-	60 UJ	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	74 U	54 U	110 U	-	-	60 UJ	-	-	-	-
Fluoranthene	µg/kg	-	-	9.9 U	7.2 U	**12000**	-	-	**21 J**	-	-	-	-
Fluorene	µg/kg	-	-	9.9 U	7.2 U	**750**	-	-	8.0 UJ	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	9.9 U	7.2 U	30 U	-	-	8.0 UJ	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	74 U	54 U	79 U	-	-	60 UJ	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	9.9 U	7.2 U	**2600**	-	-	8.0 UJ	-	-	-	-
Isophorone	µg/kg	-	-	74 U	54 U	180 U	-	-	60 UJ	-	-	-	-
Naphthalene	µg/kg	-	-	9.9 U	7.2 U	**470**	-	-	**44 J**	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	74 U	54 U	300 U	-	-	60 UJ	-	-	-	-
Pentachlorophenol	µg/kg	-	-	220 U	160 U	130 U	-	-	180 UJ	-	-	-	-
Phenanthrene	µg/kg	-	-	9.9 U	7.2 U	**7800**	-	-	**42 J**	-	-	-	-
Phenol	µg/kg	-	-	74 U	54 U	**220 J**	-	-	60 UJ	-	-	-	-
Pyrene	µg/kg	-	-	9.9 U	7.2 U	**9700**	-	-	**15 J**	-	-	-	-
Metals													
Aluminum	mg/kg	-	-	**21700**	**3450**	**7200**	-	-	**3650**	-	-	-	-
Antimony	mg/kg	-	-	**70.1 J**	6.4 UJ	**38 J**	-	-	**0.67 J**	-	-	-	-
Arsenic	mg/kg	-	-	**20.1**	**5.3**	**15**	-	-	**6.6**	-	-	-	-
Barium	mg/kg	-	-	**3500**	**19.9 J**	**1100**	-	-	**23.7 J**	-	-	-	-
Beryllium	mg/kg	-	-	**0.60 J**	0.54 U	**1.1**	-	-	**0.25 J**	-	-	-	-
Cadmium	mg/kg	-	-	**3.3 J**	**0.22 J**	**5.6**	-	-	0.60 U	-	-	-	-
Calcium	mg/kg	-	-	**13500**	**53100**	**70000**	-	-	**2650**	-	-	-	-
Chromium	mg/kg	-	-	**1080 J**	**7.8 J**	**52**	-	-	**105**	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	**317**	**3.9 J**	**15**	-	-	**5.5 J**	-	-	-	-
Copper	mg/kg	-	-	**841 J**	**9.6 J**	**1000**	-	-	**70.6 J**	-	-	-	-
Iron	mg/kg	-	-	**23600**	**9260**	**27000**	-	-	**69100**	-	-	-	-
Lead	mg/kg	-	-	**17700**	**4.3 J**	**2200**	-	-	**9.4 J**	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	**3060**	**32800**	**32000**	-	-	**722**	-	-	-	-
Manganese	mg/kg	-	-	**412 J**	**297 J**	**480**	-	-	**1140**	-	-	-	-
Mercury	mg/kg	-	-	**0.084 J**	0.11 U	**0.35**	-	-	0.12 U	-	-	-	-
Nickel	mg/kg	-	-	**45.5 J**	**11.2 J**	**60**	-	-	**42.6**	-	-	-	-
Potassium	mg/kg	-	-	**1680**	**560**	**800**	-	-	**262 J**	-	-	-	-
Selenium	mg/kg	-	-	**3.7 J**	26.8 U	**1.4**	-	-	**1.1 J**	-	-	-	-
Silver	mg/kg	-	-	**2.7**	1.1 U	**1.8**	-	-	1.2 U	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**	**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**
Sample ID:		**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**	**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**	**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**
Sample Depth:		**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**	**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS Duplicate**	**4-6 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	**2970**	536 U	**340**	-	-	599 U	-	-	-	-
Thallium	mg/kg	-	-	3.7 U	**0.20**	**0.31 J**	-	-	0.12 U	-	-	-	-
Vanadium	mg/kg	-	-	**42.4**	**10.5**	**21**	-	-	**11.0**	-	-	-	-
Zinc	mg/kg	-	-	**19600**	**33.4**	**1700**	-	-	**26.9**	-	-	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	49 U	35 U	180 U	-	-	40 U	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	49 U	35 U	220 U	-	-	40 U	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	49 U	35 U	**8600**	-	-	40 U	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	49 UJ	35 UJ	160 U	-	-	40 U	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	49 UJ	35 UJ	**540 J**	-	-	40 U	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	-	-	13 U	9.1 U	74 U	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	-	-	13 U	9.1 U	27 U	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	-	-	13 UJ	9.1 UJ	**38 NJ**	-	-	-	-	-	-	-
alpha-BHC	µg/kg	-	-	13 U	9.1 U	36 U	-	-	-	-	-	-	-
alpha-Chlordane	µg/kg	-	-	13 U	9.1 U	85 U	-	-	-	-	-	-	-
beta-BHC	µg/kg	-	-	13 U	9.1 U	88 U	-	-	-	-	-	-	-
delta-BHC	µg/kg	-	-	13 U	9.1 U	29 U	-	-	-	-	-	-	-
Dieldrin	µg/kg	-	-	13 U	9.1 U	20 U	-	-	-	-	-	-	-
Endosulfan I	µg/kg	-	-	13 U	9.1 U	29 U	-	-	-	-	-	-	-
Endosulfan II	µg/kg	-	-	13 U	9.1 U	40 U	-	-	-	-	-	-	-
Endosulfan sulfate	µg/kg	-	-	13 U	9.1 U	27 U	-	-	-	-	-	-	-
Endrin	µg/kg	-	-	13 U	9.1 U	31 U	-	-	-	-	-	-	-
Endrin aldehyde	µg/kg	-	-	13 U	9.1 U	**54 J**	-	-	-	-	-	-	-
Endrin ketone	µg/kg	-	-	13 U	9.1 U	25 U	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	-	-	13 U	9.1 U	65 U	-	-	-	-	-	-	-
gamma-Chlordane	µg/kg	-	-	13 U	9.1 U	34 U	-	-	-	-	-	-	-
Heptachlor epoxide	µg/kg	-	-	13 U	9.1 U	54 U	-	-	-	-	-	-	-
Methoxychlor	µg/kg	-	-	24 U	18 U	27 U	-	-	-	-	-	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	30 U	21 U	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	**330**	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	**1400**	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	**410**	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	**300**	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	**17**	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**130**	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**9.3**	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**59 J**	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**35**	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	3.8 U	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**30**	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	**24**	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	**10 J**	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**47**	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	**55**	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	**28**	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU15)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**SS-172-AS**	**SS-173-AS**	**TT-23**	**TT-23**	**TT-43**	**TT-43**	**VAS-4**	**BH08-09**	**BH32-13**	**BH33-13**	**BH33-13**	**BH34-13**
Sample ID:		**SS-38443-102918-JC-172**	**SS-38443-102918-JC-173**	**S-38443-100608-KMV-052**	**S-38443-100608-KMV-053**	**S-38443-110817-BW-033**	**TT-43**	**S-38443-110608-KMV-201**	**S-38443-062009-DR-002**	**S-38443-070213-JC-079**	**S-38443-062613-JT-060**	**S-38443-062613-JT-061**	**S-38443-062713-JT-062**
Sample Date:		**10/29/2018**	**10/29/2018**	**10/6/2008**	**10/6/2008**	**11/8/2017**	**11/8/2017**	**11/6/2008**	**6/20/2009**	**7/2/2013**	**6/26/2013**	**6/26/2013**	**6/27/2013**
Sample Depth:		**0.17-0.67 ft BGS**	**0-0.5 ft BGS**	**7 ft BGS**	**18 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**24-25 ft BGS**	**3-5 ft BGS**	**26.5-28.5 ft BGS**	**22-25 ft BGS**	**22-25 ft BGS Duplicate**	**4-6 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	**5.7**	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	**880 J**	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	**600 J**	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	**830 J**	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	**360 J**	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	**1300 J**	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	**2500 J**	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	**1900 J**	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	**160 J**	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	0.74 U	0.54 U	0.52 U	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	**67.6**	**93.3**	-	-	**94.9**	**83.5**	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**BH34-13**	**BH35-13**	**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**	**BH40-13**	**BH42-13**	**BH42-13**
Sample ID:		**S-38443-062713-JT-063**	**S-38443-062813-JT-068**	**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**	**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**
Sample Date:		**6/27/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**	**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS Duplicate**	**2-4 ft BGS**	**2-4 ft BGS Duplicate**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
1,1,2-Trichloroethane	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
1,1-Dichloroethane	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**280 J**	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
1,1-Dichloroethene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**49 J**	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
1,2,4-Trichlorobenzene	µg/kg	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U
1,2-Dichlorobenzene	µg/kg	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U
1,2-Dichloroethane	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
1,3-Dichlorobenzene	µg/kg	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U
1,4-Dichlorobenzene	µg/kg	4.3 U	R	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 UJ	580 U	3100 U	3000 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**1.8 J**	**17 J**	**5.1 J**	**1.3 J**	17 U	2300 U	**2.2 J**	**2.8 J**	**23 J**	**120 J**	13000 U	12000 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	17 U	36 UJ	**0.90 J**	18 U	17 U	2300 U	16 U	**0.73 J**	33 U	2300 U	**900 J**	12000 U
Acetone	µg/kg	17 U	81 UJ	20 U	18 U	17 U	2300 U	20 U	22 U	110 U	2300 U	13000 U	12000 U
Benzene	µg/kg	4.3 U	**12 J**	4.9 U	**0.71 J**	**1.7 J**	**510 J**	3.9 U	5.4 U	**6.9 J**	**310 J**	**350 J**	**150 J**
Carbon disulfide	µg/kg	**0.48 J**	**2.7 J**	**0.63 J**	4.5 U	4.3 U	570 U	3.9 U	5.4 U	**1.0 J**	580 U	3100 U	3000 U
Carbon tetrachloride	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Chlorobenzene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**23 J**	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Chloroethane	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Chloroform (Trichloromethane)	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
cis-1,2-Dichloroethene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**1000**	3.9 U	**0.51 J**	8.3 U	580 U	**4000**	**1800 J**
Cyclohexane	µg/kg	8.6 U	18 UJ	9.8 U	**1.4 J**	**2.4 J**	**600 J**	7.8 U	11 U	17 U	1200 U	6300 U	6100 U
Ethylbenzene	µg/kg	4.3 U	8.9 UJ	4.9 U	**1.4 J**	**2.5 J**	**15000**	3.9 U	5.4 U	8.3 U	**98 J**	**12000**	**4300**
Isopropyl benzene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	**0.55 J**	**280 J**	3.9 U	5.4 U	8.3 U	**100 J**	**2800 J**	**1100 J**
Methyl acetate	µg/kg	8.6 U	18 UJ	9.8 U	9.1 U	8.7 U	**240 J**	7.8 U	11 U	17 U	**380 J**	**690 J**	**380 J**
Methyl cyclohexane	µg/kg	**1.3 J**	18 UJ	9.8 U	**2.5 J**	**3.2 J**	**1100**	7.8 U	11 U	**1.2 J**	**44 J**	**3800 J**	**930 J**
Methyl tert butyl ether (MTBE)	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Methylene chloride	µg/kg	6.8 UJ	21 UJ	4.9 U	5.8 UJ	4.3 U	740 UJ	5.7 UJ	**3.1 J**	17 UJ	580 U	3100 U	3000 U
Styrene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Tetrachloroethene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	**320 J**	3000 U
Toluene	µg/kg	**0.43 J**	**2.2 J**	**0.38 J**	**2.6 J**	**2.5 J**	**670**	**1.7 J**	**0.31 J**	**2.6 J**	**270 J**	**12000**	**1800 J**
trans-1,2-Dichloroethene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**140 J**	3.9 U	5.4 U	8.3 U	580 U	**290 J**	**130 J**
Trichloroethene	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	**1600 J**	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Trichlorofluoromethane (CFC-11)	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Trifluorotrichloroethane (CFC-113)	µg/kg	4.3 U	8.9 UJ	4.9 U	4.5 U	4.3 U	570 U	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Vinyl chloride	µg/kg	4.3 U	**2.1 J**	4.9 U	4.5 U	4.3 U	**200 J**	3.9 U	5.4 U	8.3 U	580 U	3100 U	3000 U
Xylenes (total)	µg/kg	8.6 U	18 UJ	9.8 U	**2.7 J**	**4.6 J**	**14000**	7.8 U	11 U	17 U	**380 J**	**27000**	**10000**
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**BH34-13**	**BH35-13**	**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**	**BH40-13**	**BH42-13**	**BH42-13**
Sample ID:		**S-38443-062713-JT-063**	**S-38443-062813-JT-068**	**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**	**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**
Sample Date:		**6/27/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**	**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS Duplicate**	**2-4 ft BGS**	**2-4 ft BGS Duplicate**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**BH34-13**	**BH35-13**	**BH36-13**	**BH36-13**	**BH37-13**	**BH38-13**	**BH38-13**	**BH39-13**	**BH40-13**	**BH40-13**	**BH42-13**	**BH42-13**
Sample ID:		**S-38443-062713-JT-063**	**S-38443-062813-JT-068**	**S-38443-070113-JT-082**	**S-38443-070113-JT-083**	**S-38443-070213-JT-086**	**S-38443-062713-JT-064**	**S-38443-062713-JT-065**	**S-38443-070113-JC-075**	**S-38443-062813-JT-066**	**S-38443-062813-JT-067**	**S-38443-070113-JT-069**	**S-38443-070113-JT-080**
Sample Date:		**6/27/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**6/27/2013**	**6/27/2013**	**7/1/2013**	**6/28/2013**	**6/28/2013**	**7/1/2013**	**7/1/2013**
Sample Depth:		**24.5-26.5 ft BGS**	**24.5-26.5 ft BGS**	**0-2 ft BGS**	**30-32 ft BGS**	**25-27 ft BGS**	**2-4 ft BGS**	**25.5-27.5 ft BGS**	**28-30 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS Duplicate**	**2-4 ft BGS**	**2-4 ft BGS Duplicate**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		BH34-13	BH35-13	BH36-13	BH36-13	BH37-13	BH38-13	BH38-13	BH39-13	BH40-13	BH40-13	BH42-13	BH42-13
Sample ID:		S-38443-062713-JT-063	S-38443-062813-JT-068	S-38443-070113-JT-082	S-38443-070113-JT-083	S-38443-070213-JT-086	S-38443-062713-JT-064	S-38443-062713-JT-065	S-38443-070113-JC-075	S-38443-062813-JT-066	S-38443-062813-JT-067	S-38443-070113-JT-069	S-38443-070113-JT-080
Sample Date:		6/27/2013	6/28/2013	7/1/2013	7/1/2013	7/2/2013	6/27/2013	6/27/2013	7/1/2013	6/28/2013	6/28/2013	7/1/2013	7/1/2013
Sample Depth:		24.5-26.5 ft BGS	24.5-26.5 ft BGS	0-2 ft BGS	30-32 ft BGS	25-27 ft BGS	2-4 ft BGS	25.5-27.5 ft BGS	28-30 ft BGS	18-20 ft BGS	18-20 ft BGS Duplicate	2-4 ft BGS	2-4 ft BGS Duplicate
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:		**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**
Sample ID:		**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS Duplicate**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	260 U	4.3 U	230 U	550 U	-	-	29 U	28 U	150 UJ	71 U	190 UJ	0.33 U
1,1,2-Trichloroethane	µg/kg	260 U	4.3 U	230 U	550 U	-	-	24 U	23 U	130 UJ	58 U	160 UJ	0.57 U
1,1-Dichloroethane	µg/kg	**71 J**	4.3 U	230 U	550 U	-	-	32 U	31 U	170 UJ	79 U	220 UJ	0.48 U
1,1-Dichloroethene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	37 U	36 U	200 UJ	91 U	250 UJ	0.79 U
1,2,4-Trichlorobenzene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	27 U	26 U	140 UJ	66 U	180 UJ	0.35 U
1,2-Dichlorobenzene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	19 U	18 U	99 UJ	46 U	130 UJ	0.32 U
1,2-Dichloroethane	µg/kg	260 U	4.3 U	230 U	550 U	-	-	31 U	30 U	**1200 J**	76 U	210 UJ	0.42 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	260 U	4.3 U	230 U	550 U	-	-	31 U	30 U	**1800 J**	76 U	210 UJ	0.45 U
1,3-Dichlorobenzene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	39 U	38 U	210 UJ	96 U	260 UJ	0.42 U
1,4-Dichlorobenzene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	28 U	27 U	150 UJ	69 U	190 UJ	0.51 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**100 J**	17 U	910 U	2200 U	-	-	52 U	50 U	270 UJ	130 U	350 UJ	**12 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1000 U	17 U	910 U	2200 U	-	-	41 U	40 U	220 UJ	100 U	280 UJ	1.3 U
Acetone	µg/kg	1000 U	17 U	910 U	2200 U	-	-	100 U	98 U	530 UJ	250 U	670 UJ	**79**
Benzene	µg/kg	**47 J**	**0.20 J**	**13 J**	550 U	-	-	**37 J**	**29 J**	**11000 J**	61 U	170 UJ	0.47 U
Carbon disulfide	µg/kg	**97 J**	4.3 U	230 U	550 U	-	-	19 U	18 U	99 UJ	46 U	130 UJ	**1.8 J**
Carbon tetrachloride	µg/kg	260 U	4.3 U	230 U	550 U	-	-	28 U	27 U	150 UJ	69 U	190 UJ	0.36 U
Chlorobenzene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	31 U	30 U	160 UJ	76 U	210 UJ	0.48 U
Chloroethane	µg/kg	**91 J**	4.3 U	230 U	550 U	-	-	29 U	28 U	150 UJ	71 U	190 UJ	0.55 U
Chloroform (Trichloromethane)	µg/kg	260 U	4.3 U	230 U	550 U	-	-	25 U	24 U	130 UJ	61 U	170 UJ	0.33 U
cis-1,2-Dichloroethene	µg/kg	**180 J**	**1.5 J**	230 U	**410 J**	-	-	**4200**	**3300**	**35000 J**	**890**	**2100 J**	0.41 U
Cyclohexane	µg/kg	520 U	8.6 U	450 U	1100 U	-	-	**43 J**	**34 J**	**250 J**	76 U	210 UJ	0.31 U
Ethylbenzene	µg/kg	**470**	4.3 U	**8.6 J**	**67 J**	-	-	36 U	35 U	**6300 J**	89 U	240 UJ	0.39 U
Isopropyl benzene	µg/kg	**180 J**	4.3 U	230 U	**450 J**	-	-	35 U	34 U	**270 J**	86 U	240 UJ	0.29 U
Methyl acetate	µg/kg	**98 J**	8.6 U	**65 J**	**58 J**	-	-	77 U	75 U	410 UJ	190 U	520 UJ	1.7 U
Methyl cyclohexane	µg/kg	**310 J**	8.6 U	**32 J**	**1300**	-	-	**770**	**700**	**2200 J**	94 U	260 UJ	0.33 U
Methyl tert butyl ether (MTBE)	µg/kg	260 U	4.3 U	230 U	550 U	-	-	27 U	26 U	140 UJ	66 U	180 UJ	0.39 U
Methylene chloride	µg/kg	260 U	**1.4 J**	230 U	550 U	-	-	67 U	65 U	360 UJ	160 U	450 UJ	13 U
Styrene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	10 U	10 U	55 UJ	25 U	70 UJ	0.39 U
Tetrachloroethene	µg/kg	**13 J**	4.3 U	230 U	550 U	-	-	22 U	21 U	120 UJ	**1300**	**2500 J**	0.54 U
Toluene	µg/kg	**490**	**0.58 J**	**39 J**	**86 J**	-	-	**200 J**	**150 J**	**15000 J**	61 U	170 UJ	0.49 U
trans-1,2-Dichloroethene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	**53 J**	**46 J**	**300 J**	89 U	240 UJ	0.55 U
Trichloroethene	µg/kg	260 U	4.3 U	230 U	550 U	-	-	**96 J**	**75 J**	**1500 J**	**11000**	**28000 J**	0.60 U
Trichlorofluoromethane (CFC-11)	µg/kg	260 U	4.3 U	230 U	550 U	-	-	35 U	34 U	190 UJ	86 U	240 UJ	0.35 U
Trifluorotrichloroethane (CFC-113)	µg/kg	260 U	4.3 U	230 U	550 U	-	-	24 U	23 U	130 UJ	58 U	160 UJ	0.71 U
Vinyl chloride	µg/kg	**21 J**	4.3 U	230 U	**220 J**	-	-	**89 J**	**78 J**	**1100 J**	43 U	120 UJ	0.41 U
Xylenes (total)	µg/kg	**950**	8.6 U	450 U	1100 U	-	-	**63 J**	**42 J**	**7400 J**	71 U	190 UJ	0.58 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	210 U	210 U	510 U	92 U	250 U	28 U
2-Chlorophenol	µg/kg	-	-	-	-	-	-	87 U	88 U	210 U	38 U	100 U	11 U
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	**300**	**440**	**860**	**450**	**410**	**27**
2-Methylphenol	µg/kg	-	-	-	-	-	-	120 U	120 U	280 U	51 U	140 U	**25 J**
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	210 U	210 U	**1400 J**	**98 J**	250 U	**35 J**
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	190 U	190 U	460 U	83 U	220 U	25 U
Acenaphthene	µg/kg	-	-	-	-	-	-	**49 J**	8.2 U	**290**	**290**	**300**	1.1 U
Acenaphthylene	µg/kg	-	-	-	-	-	-	3.7 U	3.8 U	9.0 U	1.6 U	4.3 U	0.49 U
Acetophenone	µg/kg	-	-	-	-	-	-	97 U	99 U	240 U	42 U	110 U	**130 J**
Anthracene	µg/kg	-	-	-	-	-	-	**78**	**69 J**	**180**	**280**	**900**	1.1 U
Benzaldehyde	µg/kg	-	-	-	-	-	-	130 U	130 U	310 U	55 U	150 U	**150**
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	**280 J**	**500 J**	**410**	**330**	**870**	**23**
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	**370 J**	**780 J**	**420**	**250**	**700**	**31**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**
Sample ID:		**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS Duplicate**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	**720 J**	**1800 J**	**700**	**530**	**1100**	**52**
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	**160 J**	**520 J**	9.0 U	**83**	**230**	**16**
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	**190 J**	**600 J**	**220**	**150**	**450**	**16**
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	**81 J**	**92 J**	**340 J**	**160 J**	**530 J**	**40 J**
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	**510 J**	200 U	490 U	87 U	230 U	26 U
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	110 U	110 U	260 U	46 U	120 U	14 U
Caprolactam	µg/kg	-	-	-	-	-	-	390 U	400 U	950 U	170 U	460 U	51 U
Carbazole	µg/kg	-	-	-	-	-	-	290 U	290 U	690 U	120 U	330 U	38 U
Chrysene	µg/kg	-	-	-	-	-	-	**350 J**	**800 J**	**760**	**430**	**970**	**29**
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	7.0 U	7.1 U	17 U	3.0 U	8.1 U	0.92 U
Dibenzofuran	µg/kg	-	-	-	-	-	-	**98 J**	**140 J**	17 U	**280**	**360 J**	**20 J**
Diethyl phthalate	µg/kg	-	-	-	-	-	-	170 U	170 U	410 U	73 U	200 U	22 U
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	180 U	180 U	440 U	78 U	210 U	24 U
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	160 U	160 U	380 U	69 U	190 U	**65 J**
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	84 U	85 U	200 U	36 U	97 U	11 U
Fluoranthene	µg/kg	-	-	-	-	-	-	**640**	**730**	**940**	**1500**	**4000**	**42**
Fluorene	µg/kg	-	-	-	-	-	-	**95**	**63 J**	**240**	**300**	**470**	0.74 U
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	22 U	23 U	54 U	9.6 U	**350**	2.9 U
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	59 U	60 U	140 U	26 U	69 U	7.8 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	**190 J**	**420 J**	9.0 U	**76**	**200**	**13**
Isophorone	µg/kg	-	-	-	-	-	-	140 U	140 U	330 U	60 U	160 U	18 U
Naphthalene	µg/kg	-	-	-	-	-	-	**230**	**350**	**540**	**670**	**590**	**50**
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	220 U	230 U	540 U	**100 J**	260 U	29 U
Pentachlorophenol	µg/kg	-	-	-	-	-	-	96 U	98 U	230 U	42 U	110 U	13 U
Phenanthrene	µg/kg	-	-	-	-	-	-	**570**	**510**	**1400**	**2500**	**6700**	**27**
Phenol	µg/kg	-	-	-	-	-	-	77 U	78 U	**700 J**	**640**	**380 J**	10 U
Pyrene	µg/kg	-	-	-	-	-	-	**670**	**810**	**1000**	**1500**	**3100**	**42**
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	**2400**	**4500**	**7200**	**6100**	**8500**	**5500**
Antimony	mg/kg	-	-	-	-	-	-	**0.41 J**	**0.42 J**	**2.9 J**	**5.3 J**	**7.2 J**	**1.7**
Arsenic	mg/kg	-	-	-	-	-	-	**6.2**	**5.2**	**120**	**19**	**25**	**30**
Barium	mg/kg	-	-	-	-	-	-	**79**	**130**	**390**	**1900**	**1800**	**330**
Beryllium	mg/kg	-	-	-	-	-	-	**0.33**	**0.41**	**2.9**	**0.68**	**1.1**	**3.2**
Cadmium	mg/kg	-	-	-	-	-	-	**0.28**	**0.42**	**53**	**4.5**	**8.4**	**1.2**
Calcium	mg/kg	-	-	-	-	-	-	**110000**	**49000**	**27000**	**22000**	**36000**	**24000**
Chromium	mg/kg	-	-	-	-	-	-	**44**	**61**	**82**	**75**	**140**	**24**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	**44**	**60**	**82**	**73**	**140**	**24**
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	0.26 U	**1.0**	0.31 U	**1.7 J**	1.5 U	0.34 U
Cobalt	mg/kg	-	-	-	-	-	-	**3.0**	**3.6**	**15**	**11**	**28**	**11**
Copper	mg/kg	-	-	-	-	-	-	**200**	**190**	**460**	**1300**	**4700**	**56**
Iron	mg/kg	-	-	-	-	-	-	**11000**	**23000**	**41000**	**100000**	**89000**	**8500**
Lead	mg/kg	-	-	-	-	-	-	**120**	**180**	**390**	**1100**	**1200**	**75**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	**45000**	**24000**	**5400**	**6200**	**10000**	**10000**
Manganese	mg/kg	-	-	-	-	-	-	**230**	**360**	**370**	**320**	**1500**	**70**
Mercury	mg/kg	-	-	-	-	-	-	0.021 UJ	**0.81 J**	**0.35**	**0.15**	**0.88**	**0.081 J**
Nickel	mg/kg	-	-	-	-	-	-	**11**	**12**	**37**	**44**	**140**	**20**
Potassium	mg/kg	-	-	-	-	-	-	**380**	**560**	**910**	**1200**	**1300**	**720**
Selenium	mg/kg	-	-	-	-	-	-	**0.65 J**	**0.52 J**	**5.0**	**1.5**	**2.0**	**5.6**
Silver	mg/kg	-	-	-	-	-	-	**0.32 J**	**5.0 J**	**1.8**	**1.4**	**3.0**	**0.10 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:		**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**
Sample ID:		**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS Duplicate**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	-	-	-	**190**	**260**	**580**	**720**	**830**	**310**
Thallium	mg/kg	-	-	-	-	-	-	**0.10 J**	**0.086 J**	**0.41**	**0.14 J**	**0.25**	**0.51**
Vanadium	mg/kg	-	-	-	-	-	-	**11**	**12**	**41**	**14**	**28**	**38**
Zinc	mg/kg	-	-	-	-	-	-	**39**	**87**	**4300**	**2200**	**6100**	**140**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	35 U	36 U	120 U	24 U	29 U	130 U	140 U	33 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	**53**	36 U	99 U	20 U	24 U	**400**	**280 J**	**130**
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	35 U	36 U	130 U	25 U	31 U	130 U	150 U	34 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	35 U	36 U	**2000 J**	**440 J**	**65**	**2700**	**1700**	33 U
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	**58 J**	36 U	110 U	23 U	28 U	120 U	130 U	31 U
Pesticides													
4,4'-DDD	µg/kg	-	-	-	-	-	-	69 U	34 U	4.2 U	73 U	80 U	94 U
4,4'-DDE	µg/kg	-	-	-	-	-	-	25 U	12 U	1.5 U	27 U	29 U	34 U
4,4'-DDT	µg/kg	-	-	-	-	-	-	29 U	14 U	**6.8**	31 U	**61 NJ**	40 U
alpha-BHC	µg/kg	-	-	-	-	-	-	33 U	16 U	2.0 U	36 U	39 U	46 U
alpha-Chlordane	µg/kg	-	-	-	-	-	-	79 U	39 U	4.8 U	84 U	93 U	110 U
beta-BHC	µg/kg	-	-	-	-	-	-	81 U	40 U	5.0 U	87 U	95 U	110 U
delta-BHC	µg/kg	-	-	-	-	-	-	27 U	13 U	1.7 U	29 U	32 U	37 U
Dieldrin	µg/kg	-	-	-	-	-	-	19 U	9.3 U	1.1 U	20 U	22 U	26 U
Endosulfan I	µg/kg	-	-	-	-	-	-	27 U	13 U	1.7 U	29 U	32 U	37 U
Endosulfan II	µg/kg	-	-	-	-	-	-	38 U	19 U	2.3 U	40 U	44 U	52 U
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	25 U	12 U	1.5 U	27 U	29 U	34 U
Endrin	µg/kg	-	-	-	-	-	-	29 U	14 U	1.8 U	31 U	34 U	40 U
Endrin aldehyde	µg/kg	-	-	-	-	-	-	38 U	19 U	230 U	40 U	44 U	52 U
Endrin ketone	µg/kg	-	-	-	-	-	-	23 U	11 U	1.4 U	24 U	27 U	31 U
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	61 U	30 U	3.7 U	64 U	71 U	83 U
gamma-Chlordane	µg/kg	-	-	-	-	-	-	31 U	15 U	1.9 U	33 U	37 U	43 U
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	50 U	25 U	3.1 U	53 U	58 U	69 U
Methoxychlor	µg/kg	-	-	-	-	-	-	25 U	12 U	1.5 U	27 U	29 U	34 U
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	**43 J**	**35**	**17 J**	**7.4 J**	**670**	**12 J**
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	**410**	**480**	**130**	**700**	**4600**	**48**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**120**	**85**	**40 J**	**95**	**430**	**6.0 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**120**	**140**	**39 J**	**630**	**820**	**8.9**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**8.5 J**	**6.9**	**3.7 J**	**1.8 J**	**22**	**0.33 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**65**	**48 J**	**28 J**	**19 J**	**160 J**	**3.5 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	0.39 U	**4.0 J**	**2.6 J**	**48 J**	**25**	**0.30 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**23 J**	**16**	**13 J**	**25 J**	**69 J**	**5.0 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**16 J**	**18**	**5.6 J**	**310**	**110**	**1.1 J**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	2.0 U	**0.88 J**	2.4 U	1.5 U	7.5 U	0.97 U
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**16 J**	**15**	**5.8 J**	**450**	**140**	**1.0 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**15 J**	**15**	**8.6 J**	**12 J**	**32**	**1.3 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	6.3 U	15 U	**4.3 J**	**290**	**83**	**0.83 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**21 J**	**17**	**11 J**	**29 J**	**110 J**	**1.8 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**29 J**	**30**	**12 J**	**23 J**	**73**	**3.2 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**110**	**200**	**8.5 J**	**14 J**	**34 J**	**10**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**BH42-13**	**BH43-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH44-13**	**BH136-18**	**BH136-18**	**BH136-18**	**BH137-18**	**BH137-18**	**BH138-18**
Sample ID:		**S-38443-070113-JT-081**	**S-38443-070113-JC-074**	**S-38443-070113-JT-084**	**S-38443-070113-JT-085**	**S-38443-070213-JT-084**	**S-38443-070213-JT-085**	**S-38443-010818-JC-032**	**S-38443-010818-JC-033**	**S-38443-010818-JC-034**	**S-38443-010818-JC-030**	**S-38443-010818-JC-031**	**S-38443-010918-JC-035**
Sample Date:		**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/1/2013**	**7/2/2013**	**7/2/2013**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/8/2018**	**1/9/2018**
Sample Depth:		**20-22 ft BGS**	**26.8-28.7 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**2-4 ft BGS**	**35.5-37.5 ft BGS**	**1-3 ft BGS**	**1-3 ft BGS Duplicate**	**15-17 ft BGS**	**13-15 ft BGS**	**26-28 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**2.0 J**	**1.3 J**	0.88 U	**78**	**22**	0.13 U
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**180 J**	**140 J**	**58 J**	**120 J**	**850 J**	**12 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**260 J**	**300 J**	**80 J**	**1300 J**	**1600 J**	**16 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**230 J**	**190 J**	**97 J**	**370 J**	**1100 J**	**120 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**150 J**	**160 J**	**57 J**	**3200 J**	**1100 J**	**11 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**300 J**	**290 J**	**140 J**	**550 J**	**1900 J**	**350 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	**5900 J**	**12000 J**	**50 J**	**2400 J**	**3500 J**	**9.9 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**600 J**	**720 J**	**250 J**	**820 J**	**3300 J**	**680 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**60 J**	**38 J**	**29 J**	**1300 J**	**530 J**	**10 J**
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	**0.13 J**	**0.21 J**	**8.5**	**0.31 J**	**0.35 J**	**0.33 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:		**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**
Sample ID:		**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**
Sample Date:		**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	170 U	0.32 U	85 UJ	0.24 U	530 U	0.30 U	-	300 U	4.5 U	7.3 U	4.2 U
1,1,2-Trichloroethane	µg/kg	140 U	0.54 U	70 U	0.41 U	440 U	0.50 U	-	300 U	4.5 U	7.3 U	4.2 U
1,1-Dichloroethane	µg/kg	180 U	**1.1 J**	94 U	0.34 U	590 U	0.43 U	-	300 U	4.5 U	7.3 U	4.2 U
1,1-Dichloroethene	µg/kg	210 U	**3.5 J**	110 U	0.56 U	680 U	0.70 U	-	300 U	4.5 U	7.3 U	4.2 U
1,2,4-Trichlorobenzene	µg/kg	150 U	R	79 U	0.25 U	490 U	0.31 U	-	**24 J**	4.5 U	7.3 U	4.2 U
1,2-Dichlorobenzene	µg/kg	110 U	R	54 U	0.23 U	340 U	0.28 U	-	**42 J**	4.5 U	7.3 U	4.2 U
1,2-Dichloroethane	µg/kg	180 U	0.40 U	91 U	0.30 U	570 U	0.38 U	-	300 U	4.5 U	7.3 U	4.2 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	180 U	0.43 U	91 U	0.32 U	570 U	0.40 U	-	300 U	4.5 U	7.3 U	4.2 U
1,3-Dichlorobenzene	µg/kg	220 U	R	110 U	0.30 U	720 U	0.38 U	-	**44 J**	4.5 U	7.3 U	4.2 U
1,4-Dichlorobenzene	µg/kg	160 U	R	82 U	0.36 U	510 U	0.45 U	-	**24 J**	4.5 U	7.3 U	4.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	290 U	1.7 U	**170 J**	**2.1 J**	950 U	1.6 U	-	1200 U	**2.2 J**	29 U	17 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	240 U	1.2 U	120 U	0.93 U	760 U	1.2 U	-	1200 U	18 U	29 U	17 U
Acetone	µg/kg	570 U	**34 J**	**1400 J**	**33**	1800 U	4.0 U	-	1200 U	**6.4 J**	**9.9 J**	17 U
Benzene	µg/kg	140 U	**2.6 J**	**140 J**	0.33 U	460 U	0.41 U	-	**260 J**	**0.67 J**	7.3 U	**0.36 J**
Carbon disulfide	µg/kg	110 U	0.29 U	54 U	**0.38 J**	340 U	0.27 U	-	300 U	4.5 U	**6.4 J**	**1.2 J**
Carbon tetrachloride	µg/kg	160 U	0.34 U	82 U	0.26 U	510 U	0.32 U	-	300 U	4.5 U	7.3 U	4.2 U
Chlorobenzene	µg/kg	180 U	0.45 U	**26000**	0.34 U	**100000**	0.43 U	-	**9800**	**28**	7.3 U	4.2 U
Chloroethane	µg/kg	170 U	0.52 U	85 U	0.40 U	530 U	0.49 U	-	300 U	4.5 U	7.3 U	4.2 U
Chloroform (Trichloromethane)	µg/kg	140 U	0.32 U	73 U	0.24 U	460 U	0.30 U	-	300 U	4.5 U	7.3 U	4.2 U
cis-1,2-Dichloroethene	µg/kg	**330 J**	**150**	**240 J**	0.29 U	670 U	0.36 U	-	300 U	4.5 U	7.3 U	**1.7 J**
Cyclohexane	µg/kg	180 U	0.29 U	91 U	0.22 U	570 U	0.27 U	-	**230 J**	**1.7 J**	15 U	8.5 U
Ethylbenzene	µg/kg	210 U	0.37 U	**270 J**	0.28 U	670 U	0.35 U	-	**2400**	**22**	7.3 U	4.2 U
Isopropyl benzene	µg/kg	200 U	0.28 U	100 U	0.21 U	650 U	0.26 U	-	**680**	**3.9 J**	7.3 U	4.2 U
Methyl acetate	µg/kg	440 U	1.6 U	230 U	1.2 U	1400 U	1.5 U	-	**290 J**	8.9 U	15 U	8.5 U
Methyl cyclohexane	µg/kg	220 U	0.32 U	**210 J**	0.24 U	700 UJ	0.30 U	-	**2400**	**14**	15 U	**0.72 J**
Methyl tert butyl ether (MTBE)	µg/kg	150 U	0.37 U	79 U	0.28 U	490 U	0.35 U	-	1200 U	18 U	29 U	17 U
Methylene chloride	µg/kg	380 U	0.33 U	150 U	1.3 U	2500 U	0.97 U	-	300 U	4.5 U	7.3 U	4.2 U
Styrene	µg/kg	59 U	0.37 U	30 U	0.28 U	190 U	0.35 U	-	300 U	4.5 U	7.3 U	4.2 UJ
Tetrachloroethene	µg/kg	**40000**	**1.5 J**	63 U	0.39 U	400 U	0.48 U	-	300 U	4.5 U	7.3 U	4.2 U
Toluene	µg/kg	140 U	0.47 U	**180 J**	**3.3 J**	460 U	**1.3 J**	-	**1100**	**8.2**	7.3 U	**0.28 J**
trans-1,2-Dichloroethene	µg/kg	210 U	**9.9**	110 U	0.40 U	670 U	0.49 U	-	300 U	4.5 U	7.3 U	**0.53 J**
Trichloroethene	µg/kg	**25000**	**15**	**430 J**	**0.75 J**	700 U	**1.5 J**	-	**16 J**	4.5 U	7.3 U	**0.68 J**
Trichlorofluoromethane (CFC-11)	µg/kg	200 U	0.33 U	100 U	0.25 U	650 U	0.31 U	-	300 U	4.5 U	7.3 U	4.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	140 U	0.67 U	70 U	0.51 U	440 UJ	0.63 U	-	300 U	4.5 U	7.3 U	4.2 U
Vinyl chloride	µg/kg	100 U	**3.0 J**	51 U	0.29 U	320 U	0.36 U	-	300 U	4.5 U	7.3 U	**0.58 J**
Xylenes (total)	µg/kg	170 U	0.55 U	**720 J**	0.42 U	530 U	0.52 U	-	**12000**	**130**	15 U	**1.1 J**
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	490 U	51 U	34 U	1100 U	-	-	-	3800 U	160 U	180 U	160 U
2-Chlorophenol	µg/kg	200 U	21 U	14 U	440 U	-	-	-	1300 U	52 U	62 U	52 U
2-Methylnaphthalene	µg/kg	**460**	**51**	**1200**	27 U	-	-	-	**1700**	**27**	8.2 U	6.9 U
2-Methylphenol	µg/kg	270 U	28 U	19 U	580 U	-	-	-	5100 UJ	210 UJ	250 UJ	210 UJ
3&4-Methylphenol	µg/kg	490 U	51 U	34 U	1100 U	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	450 U	46 U	31 U	960 U	-	-	-	2600 U	100 U	120 U	100 U
Acenaphthene	µg/kg	19 U	1.9 U	**98**	40 U	-	-	-	170 U	6.9 U	8.2 U	6.9 U
Acenaphthylene	µg/kg	8.7 U	**8.7 J**	**27**	19 U	-	-	-	170 U	6.9 U	8.2 U	6.9 U
Acetophenone	µg/kg	230 U	23 U	16 U	490 U	-	-	-	2600 U	100 U	120 U	100 U
Anthracene	µg/kg	19 U	**33**	1.3 U	41 U	-	-	-	170 U	6.9 U	8.2 U	6.9 U
Benzaldehyde	µg/kg	300 U	**36 J**	20 U	640 U	-	-	-	2600 U	100 U	120 U	100 U
Benzo(a)anthracene	µg/kg	16 U	**52**	**41**	**430**	-	-	-	170 U	**22**	8.2 U	6.9 U
Benzo(a)pyrene	µg/kg	16 U	**36**	1.1 U	34 U	-	-	-	170 U	**14**	8.2 U	6.9 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:		**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**
Sample ID:		**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**
Sample Date:		**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	15 U	**96**	**60**	**660**	-	-	-	170 U	**23**	8.2 U	6.9 U
Benzo(g,h,i)perylene	µg/kg	8.7 U	**37**	0.60 U	19 U	-	-	-	170 U	**8.7**	8.2 U	6.9 U
Benzo(k)fluoranthene	µg/kg	17 U	**25**	1.2 U	36 U	-	-	-	170 U	**10**	8.2 U	6.9 U
Biphenyl (1,1-Biphenyl)	µg/kg	**110 J**	**51 J**	**180**	**250 J**	-	-	-	1300 U	52 U	62 U	52 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	470 U	**2000**	**270**	1000 U	-	-	-	4100 U	84 U	62 U	52 U
Butyl benzylphthalate (BBP)	µg/kg	250 U	25 U	17 U	530 U	-	-	-	1300 U	52 U	62 U	52 U
Caprolactam	µg/kg	920 U	94 U	63 U	2000 U	-	-	-	8400 U	340 U	410 U	340 U
Carbazole	µg/kg	670 U	69 U	46 U	1400 U	-	-	-	1300 U	52 U	62 U	52 U
Chrysene	µg/kg	27 U	**100**	**73**	**1600**	-	-	-	**530**	**22**	8.2 U	6.9 U
Dibenz(a,h)anthracene	µg/kg	16 U	1.7 U	1.1 U	35 U	-	-	-	170 U	6.9 U	8.2 U	6.9 U
Dibenzofuran	µg/kg	16 U	**64 J**	1.1 U	35 U	-	-	-	1300 U	52 U	62 U	52 U
Diethyl phthalate	µg/kg	**690 J**	41 U	**36 J**	850 U	-	-	-	1300 U	52 U	62 U	52 U
Dimethyl phthalate	µg/kg	420 U	43 U	**680**	900 U	-	-	-	1300 U	52 U	62 U	52 U
Di-n-butylphthalate (DBP)	µg/kg	370 U	**270**	**63 J**	800 U	-	-	-	**910 J**	52 U	62 U	52 U
Di-n-octyl phthalate (DnOP)	µg/kg	200 U	20 U	13 U	420 U	-	-	-	1300 U	52 U	62 U	52 U
Fluoranthene	µg/kg	**330**	**180**	**170**	**1700**	-	-	-	**970**	**51**	8.2 U	6.9 U
Fluorene	µg/kg	13 U	**12 J**	**130**	28 U	-	-	-	**400**	6.9 U	8.2 U	6.9 U
Hexachlorobenzene	µg/kg	52 U	5.3 U	3.6 U	110 U	-	-	-	170 U	6.9 U	8.2 U	6.9 U
Hexachlorobutadiene	µg/kg	140 U	14 U	9.6 U	300 U	-	-	-	1300 U	52 U	62 U	52 U
Indeno(1,2,3-cd)pyrene	µg/kg	8.7 U	0.89 U	0.60 U	19 U	-	-	-	170 U	**7.3**	8.2 U	6.9 U
Isophorone	µg/kg	320 U	33 U	22 U	690 U	-	-	-	1300 U	52 U	62 U	52 U
Naphthalene	µg/kg	**240**	**25**	**1500**	44 U	-	-	-	**5500**	**38**	8.2 U	6.9 U
N-Nitrosodiphenylamine	µg/kg	520 U	53 U	36 U	1100 U	-	-	-	1300 U	52 U	62 U	**53**
Pentachlorophenol	µg/kg	230 U	23 U	16 U	480 U	-	-	-	3800 U	160 U	180 U	160 U
Phenanthrene	µg/kg	**590**	**290**	**210**	**1900**	-	-	-	**1100**	**25**	8.2 U	6.9 U
Phenol	µg/kg	**980 J**	19 U	12 U	390 U	-	-	-	1300 U	52 U	62 U	52 U
Pyrene	µg/kg	**550**	**200**	**130**	**1200**	-	-	-	**680**	**34**	8.2 U	6.9 U
Metals												
Aluminum	mg/kg	**2600**	**19000**	**5500**	**4600**	-	-	-	**10700**	**2260**	**7400**	**2140**
Antimony	mg/kg	**0.49**	**6.8 J**	**2.3**	**5.7**	-	-	-	**12.2 J**	6.2 UJ	**1.7 J**	6.2 UJ
Arsenic	mg/kg	**11**	**22**	**28**	**24**	-	-	-	**14.2**	**2.9**	**11.7**	**4.0**
Barium	mg/kg	**6200**	**2200**	**200**	**440**	-	-	-	**7810**	**50.8**	**1380**	**26.9**
Beryllium	mg/kg	**0.51**	**0.93**	**6.9**	**0.41**	-	-	-	**0.62 J**	0.52 U	**0.26 J**	0.52 U
Cadmium	mg/kg	**5.3**	**29**	**0.48**	**4.7**	-	-	-	**7.8 J**	**0.28 J**	**4.2 J**	**0.35 J**
Calcium	mg/kg	**11000**	**30000**	**14000**	**30000**	-	-	-	**42900**	**117000**	**146000**	**131000**
Chromium	mg/kg	**300**	**120**	**90**	**320**	-	-	-	**185 J**	**8.4 J**	**36.8 J**	**5.2 J**
Chromium III (trivalent)	mg/kg	**300**	**120**	**89**	**320**	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	3.0 U	1.5 U	**1.1 J**	0.26 U	-	-	-	-	-	-	-
Cobalt	mg/kg	**37**	**17**	**18**	**21**	-	-	-	**9.3**	**3.5 J**	**2.9 J**	**2.5 J**
Copper	mg/kg	**2700**	**1500**	**250**	**1700**	-	-	-	**2590 J**	**15.2 J**	**900 J**	**13.4 J**
Iron	mg/kg	**23000**	**150000**	**13000**	**210000**	-	-	-	**63000**	**8000**	**25300**	**7220**
Lead	mg/kg	**16000**	**1700**	**590**	**350**	-	-	-	**5020**	**59.1**	**546**	**25.1**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**97000**	**12000**	**4600**	**6500**	-	-	-	**37100**	**42100**	**40300**	**44600**
Manganese	mg/kg	**400**	**520**	**78**	**1400**	-	-	-	**561 J**	**226 J**	**333 J**	**211 J**
Mercury	mg/kg	**0.058 J**	**3.9**	**1.1**	**0.76**	-	-	-	**0.24**	0.10 U	**1.3**	**0.030 J**
Nickel	mg/kg	**640**	**170**	**36**	**860**	-	-	-	**241 J**	**10.1 J**	**20.2 J**	**6.5 J**
Potassium	mg/kg	**360**	**1100**	**470**	**290**	-	-	-	**1200**	**378 J**	**1270**	**459 J**
Selenium	mg/kg	**1.3**	**1.5**	**38**	**0.80**	-	-	-	31.9 U	26.0 U	30.8 U	25.9 U
Silver	mg/kg	**0.52**	**2.9**	**0.26 J**	**3.7**	-	-	-	**1.2 J**	1.0 U	**1.7**	1.0 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**
Sample Location:		**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**
Sample ID:		**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**
Sample Date:		**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**110 J**	**790**	**250 J**	**290**	-	-	-	**1510**	**256 J**	**1120**	**175 J**
Thallium	mg/kg	**0.28 J**	**0.20 J**	**2.4**	**0.095 J**	-	-	-	0.64 U	0.10 U	0.12 U	0.10 U
Vanadium	mg/kg	**15**	**23**	**79**	**37**	-	-	-	**34.0**	**11.9**	**20.9**	**8.2**
Zinc	mg/kg	**740**	**19000**	**80**	**1000**	-	-	-	**2390**	**32.9**	**816**	**230**
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	28 U	1400 U	40 U	24 U	-	-	-	2100 U	34 U	41 U	34 U
Aroclor-1242 (PCB-1242)	µg/kg	23 U	**29000**	33 U	20 U	-	-	-	**10000**	**55**	41 U	34 U
Aroclor-1248 (PCB-1248)	µg/kg	30 U	1500 U	**59 J**	25 U	-	-	-	2100 U	34 U	41 U	34 U
Aroclor-1254 (PCB-1254)	µg/kg	**94**	**10000**	40 U	**450 NJ**	-	-	-	**2800**	**23 J**	41 UJ	34 UJ
Aroclor-1260 (PCB-1260)	µg/kg	27 U	1300 U	38 U	23 U	-	-	-	2100 U	34 U	41 UJ	34 UJ
Pesticides												
4,4'-DDD	µg/kg	82 U	200 U	110 U	36 U	-	-	-	220 U	18 U	2.1 U	8.8 U
4,4'-DDE	µg/kg	30 U	73 U	40 U	13 U	-	-	-	220 U	18 U	2.1 U	8.8 U
4,4'-DDT	µg/kg	35 U	85 U	46 U	15 U	-	-	-	**110 J**	18 UJ	2.1 UJ	8.8 UJ
alpha-BHC	µg/kg	40 U	97 U	53 U	17 U	-	-	-	220 U	18 U	2.1 U	8.8 U
alpha-Chlordane	µg/kg	95 U	230 U	130 U	41 U	-	-	-	220 U	18 U	2.1 U	8.8 U
beta-BHC	µg/kg	97 U	240 U	130 U	42 U	-	-	-	220 U	18 U	2.1 U	8.8 U
delta-BHC	µg/kg	32 U	79 U	**130 J**	14 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Dieldrin	µg/kg	22 U	55 U	30 U	9.7 U	-	-	-	**68 J**	18 U	2.1 U	8.8 U
Endosulfan I	µg/kg	32 U	79 U	43 U	14 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Endosulfan II	µg/kg	45 U	110 U	60 U	19 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Endosulfan sulfate	µg/kg	30 U	73 U	40 U	13 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Endrin	µg/kg	35 U	85 U	46 U	15 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Endrin aldehyde	µg/kg	45 U	110 U	60 U	97 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Endrin ketone	µg/kg	27 U	67 U	37 U	12 U	-	-	-	220 U	18 U	2.1 U	8.8 U
gamma-BHC (lindane)	µg/kg	72 U	180 U	96 U	31 U	-	-	-	220 U	18 U	2.1 U	8.8 U
gamma-Chlordane	µg/kg	37 U	91 U	50 U	16 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Heptachlor epoxide	µg/kg	60 U	150 U	80 U	26 U	-	-	-	220 U	18 U	2.1 U	8.8 U
Methoxychlor	µg/kg	30 U	73 U	40 U	13 U	-	-	-	420 U	34 U	4.1 U	17 U
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	26 U	21 U	25 U	21 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**13**	**9.8 J**	**130**	**200 J**	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**540**	**44**	**1200**	**580**	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**16**	**120**	**100**	**610**	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**120**	**22**	**180**	**1400**	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	**0.64 J**	**3.1 J**	**5.8 J**	**15 J**	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**4.4 J**	**120**	**40**	**130**	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**2.4 J**	**5.1 J**	**3.8 J**	**47 J**	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**4.9 J**	**41**	**17 J**	**71 J**	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**24**	**6.8**	**16**	**810**	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	1.8 U	2.1 U	1.5 U	8.0 U	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**16**	**13**	**15**	**510**	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**0.84 J**	**47**	**11**	**56**	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**3.5 J**	**14 J**	**5.8 J**	**430**	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	1.5 U	**39**	**15**	**51 J**	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**1.8 J**	**76**	**23**	**91**	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**3.7**	**70 J**	**17**	**48**	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)
Sample Location:		**BH139-18**	**BH140-18**	**BH141-18**	**BH142-18**	**GP01-18**	**GP32-18**	**TP-5**	**TP-5**	**TP-5**	**TP-6**	**TP-6**
Sample ID:		**S-38443-010418-JC-028**	**S-38443-010818-JC-029**	**S-38443-010918-JC-036**	**S-38443-010418-JC-027**	**S-38443-012518-JC-064**	**S-38443-011018-JC-037**	**S-38443-100608-KMV-054**	**S-38443-100608-KMV-055**	**S-38443-100608-KMV-056**	**S-38443-100608-KMV-057**	**S-38443-100608-KMV-058**
Sample Date:		**1/4/2018**	**1/8/2018**	**1/9/2018**	**1/4/2018**	**1/25/2018**	**1/10/2018**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**	**10/6/2008**
Sample Depth:		**13-15 ft BGS**	**13-15 ft BGS**	**6-8 ft BGS**	**8-10 ft BGS**	**5.5-6.5 ft bgs**	**10-11 ft BGS**	**8 ft BGS**	**12 ft BGS**	**17 ft BGS**	**11 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**0.89 J**	**5.7**	**1.4 J**	**180**	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**33 J**	**140 J**	**250 J**	**1400 J**	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**220 J**	**47 J**	**390 J**	**3800 J**	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**77 J**	**420 J**	**220 J**	**1400 J**	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**160 J**	**100 J**	**180 J**	**8700 J**	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**200 J**	**1000 J**	**320 J**	**1800 J**	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**300 J**	**180 J**	**230 J**	**7600 J**	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**370 J**	**2600 J**	**610 J**	**2800 J**	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**250 J**	**350 J**	**120 J**	**7900 J**	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	**10**	-	-	1 <	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**0.30 J**	**8.7**	**3.5**	**0.12 J**	-	-	-	**6.0**	**0.74**	0.62 U	0.52 U
Fraction organic carbon (FOC)	%	-	-	-	-	**11.2**	**2.7**	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	**78.3**	**96.3**	**81.2**	**96.7**

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**	**TT-24**	**VAS-5**	**BH30-13**	**BH31-13**
Sample ID:		**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**	**S-38443-070213-JT-087**	**S-38443-070113-JC-076**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**	**7/2/2013**	**7/1/2013**
Sample Depth:		**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**	**29.5-31.5 ft BGS**	**18-20 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.25 U	1200 U	-	4.5 U	260 U
1,1,2-Trichloroethane	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.42 U	990 U	-	4.5 U	260 U
1,1-Dichloroethane	µg/kg	1800 U	280 U	320 U	980 U	1800 U	**66 J**	0.36 U	1300 U	-	4.5 U	260 U
1,1-Dichloroethene	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.59 U	1600 U	-	4.5 U	260 U
1,2,4-Trichlorobenzene	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.26 U	1100 U	-	4.5 U	260 U
1,2-Dichlorobenzene	µg/kg	1800 U	280 U	**47 J**	980 U	1800 U	360 U	0.24 U	780 U	-	4.5 U	260 U
1,2-Dichloroethane	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.32 U	1300 U	-	4.5 U	260 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.34 U	1300 U	-	4.5 U	260 U
1,3-Dichlorobenzene	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.32 U	1600 U	-	4.5 U	260 U
1,4-Dichlorobenzene	µg/kg	**89 J**	**19 J**	**17 J**	**55 J**	1800 U	360 U	0.38 U	1200 U	-	4.5 U	260 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	7100 U	1100 U	1300 U	3900 U	7100 U	1400 U	**4.3 J**	2200 U	-	18 U	**49 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	7100 U	1100 U	1300 U	3900 U	7100 U	**530 J**	0.97 U	1700 U	-	18 U	1000 U
Acetone	µg/kg	7100 U	1100 U	1300 UJ	3900 UJ	7100 UJ	1400 UJ	18 U	4200 U	-	18 U	1000 U
Benzene	µg/kg	1800 U	**94 J**	**210 J**	**360 J**	**530 J**	**290 J**	0.35 U	1000 U	-	**0.45 J**	260 U
Carbon disulfide	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	**0.91 J**	780 U	-	4.5 U	**17 J**
Carbon tetrachloride	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.27 U	1200 U	-	4.5 U	260 U
Chlorobenzene	µg/kg	**47000**	**1900**	**14 J**	**42 J**	1800 U	360 U	0.36 U	1300 U	-	4.5 U	260 U
Chloroethane	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.41 U	1200 U	-	4.5 U	260 U
Chloroform (Trichloromethane)	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.25 U	1000 U	-	4.5 U	260 U
cis-1,2-Dichloroethene	µg/kg	1800 U	**20 J**	**690**	**1400**	**150 J**	360 U	**0.39 J**	1500 U	-	4.5 U	260 U
Cyclohexane	µg/kg	3600 U	560 U	650 U	2000 U	3600 U	**750**	0.23 U	1300 U	-	**0.46 J**	520 U
Ethylbenzene	µg/kg	**220 J**	**28 J**	**2500**	**18000**	**54000**	**1500**	**6.8**	**210000 J**	-	**0.71 J**	**13 J**
Isopropyl benzene	µg/kg	1800 U	**81 J**	**290 J**	**3300**	**2200**	**180 J**	**0.41 J**	**15000 J**	-	4.5 U	**51 J**
Methyl acetate	µg/kg	3600 U	**140 J**	**78 J**	2000 U	3600 U	**160 J**	1.3 U	3200 U	-	9.0 U	**170 J**
Methyl cyclohexane	µg/kg	3600 U	**59 J**	**210 J**	**1400 J**	**4200**	**1700**	**0.44 J**	**14000 J**	-	**0.87 J**	520 U
Methyl tert butyl ether (MTBE)	µg/kg	7100 U	1100 U	1300 U	3900 U	7100 U	1400 U	0.29 U	1100 U	-	4.5 U	260 U
Methylene chloride	µg/kg	1800 U	**190 J**	320 U	980 U	1800 U	360 U	**30**	6100 U	-	4.5 U	260 U
Styrene	µg/kg	1800 UJ	280 UJ	320 UJ	980 UJ	1800 UJ	360 UJ	0.29 U	430 U	-	4.5 U	260 U
Tetrachloroethene	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	**0.56 J**	910 U	-	**0.50 J**	**43 J**
Toluene	µg/kg	1800 U	**33 J**	**140 J**	**770 J**	**2900**	**540**	**1.1 J**	**6500 J**	-	**1.6 J**	260 U
trans-1,2-Dichloroethene	µg/kg	1800 U	280 U	**56 J**	**130 J**	1800 U	360 U	0.41 U	1500 U	-	4.5 U	260 U
Trichloroethene	µg/kg	1800 U	**240 J**	**400**	**790 J**	1800 U	360 U	**0.51 J**	1600 U	-	**4.7 J**	260 U
Trichlorofluoromethane (CFC-11)	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.26 U	1500 U	-	4.5 U	260 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1800 U	280 U	320 U	980 U	1800 U	360 U	0.53 U	990 U	-	4.5 U	260 U
Vinyl chloride	µg/kg	1800 U	280 U	**130 J**	**490 J**	1800 U	**61 J**	0.30 U	730 U	-	4.5 U	260 U
Xylenes (total)	µg/kg	**710 J**	**140 J**	**3600**	**61000**	**6300**	**1700**	**23**	**590000 J**	-	9.0 U	520 U
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	3900 U	1300 U	1900 U	3600 U	4500 U	2100 U	83 U	1200 U	-	-	-
2-Chlorophenol	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	34 U	510 U	-	-	-
2-Methylnaphthalene	µg/kg	**300**	56 U	82 U	160 U	**420**	**290**	**17 J**	**4800**	-	-	-
2-Methylphenol	µg/kg	5100 UJ	1700 U	2500 U	4900 U	6000 U	2800 U	45 U	690 U	-	-	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	83 U	1200 U	-	-	-
3,3'-Dichlorobenzidine	µg/kg	2600 U	840 U	1200 U	2400 U	3000 U	1400 U	74 U	1100 U	-	-	-
Acenaphthene	µg/kg	**2600**	**1700**	82 U	160 U	200 U	93 U	**33**	**470**	-	-	-
Acenaphthylene	µg/kg	170 U	56 U	82 U	160 U	200 U	93 U	1.4 U	22 U	-	-	-
Acetophenone	µg/kg	2600 U	840 U	1200 U	2400 U	3000 U	1400 U	38 U	570 U	-	-	-
Anthracene	µg/kg	**2900**	**2000**	82 U	160 U	200 U	93 U	**66**	49 U	-	-	-
Benzaldehyde	µg/kg	2600 U	840 U	1200 U	2400 U	3000 U	1400 U	50 U	750 U	-	-	-
Benzo(a)anthracene	µg/kg	**6400**	**3500**	82 U	160 U	200 U	**240**	**220**	39 U	-	-	-
Benzo(a)pyrene	µg/kg	**4500**	**2500**	82 U	160 U	**540**	**270**	**270**	40 U	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU17)	on-site (EU17)
Sample Location:		**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**	**TT-24**	**VAS-5**	**BH30-13**	**BH31-13**
Sample ID:		**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**	**S-38443-070213-JT-087**	**S-38443-070113-JC-076**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**	**7/2/2013**	**7/1/2013**
Sample Depth:		**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**	**29.5-31.5 ft BGS**	**18-20 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**6200**	**3300**	**160**	160 U	**690**	**310**	**470**	37 U	-	-	-
Benzo(g,h,i)perylene	µg/kg	**2300**	**1400**	82 U	160 U	**510**	**220**	**210**	22 U	-	-	-
Benzo(k)fluoranthene	µg/kg	**2400**	**1400**	82 U	160 U	**310**	**150**	**160**	42 U	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	**15 J**	**740 J**	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	1920 U	4000 U	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	41 U	620 U	-	-	-
Caprolactam	µg/kg	8500 U	2800 U	4100 U	8000 U	9900 U	4600 U	150 U	2300 U	-	-	-
Carbazole	µg/kg	1300 U	**250 J**	620 U	1200 U	1500 U	700 U	110 U	1700 U	-	-	-
Chrysene	µg/kg	**5700**	**2800**	82 U	160 U	**510**	**250**	**260**	69 U	-	-	-
Dibenz(a,h)anthracene	µg/kg	170 U	**540**	82 U	160 U	200 U	93 U	**53**	41 U	-	-	-
Dibenzofuran	µg/kg	**860 J**	**760**	620 U	1200 U	1500 U	700 U	2.7 U	41 U	-	-	-
Diethyl phthalate	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	66 U	1000 U	-	-	-
Dimethyl phthalate	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	70 U	1100 U	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	62 U	**6000**	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	33 U	490 U	-	-	-
Fluoranthene	µg/kg	**21000**	**12000**	**230**	160 U	**880**	**570**	**560**	**1200**	-	-	-
Fluorene	µg/kg	**2000**	**1600**	82 U	160 U	200 U	93 U	**41**	**290 J**	-	-	-
Hexachlorobenzene	µg/kg	170 U	56 U	82 U	160 U	200 U	93 U	8.7 U	130 U	-	-	-
Hexachlorobutadiene	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	23 U	350 U	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	**2300**	**1300**	82 U	160 U	**390**	**190**	**190**	22 U	-	-	-
Isophorone	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	54 U	810 U	-	-	-
Naphthalene	µg/kg	**270**	56 U	82 U	**250**	**860**	**430**	**14 J**	**9800**	-	-	-
N-Nitrosodiphenylamine	µg/kg	1300 U	420 U	620 U	1200 U	1500 U	700 U	87 U	1300 U	-	-	-
Pentachlorophenol	µg/kg	3900 U	1300 U	1900 U	3600 U	4500 U	2100 U	38 U	570 U	-	-	-
Phenanthrene	µg/kg	**6800**	**5700**	**150**	**200**	**350**	**250**	**130**	**1400**	-	-	-
Phenol	µg/kg	**970 J**	420 U	620 U	1200 U	1500 U	700 U	30 U	450 U	-	-	-
Pyrene	µg/kg	**13000**	**8300**	**210**	**240**	**700**	**420**	**590**	**1000**	-	-	-
Metals												
Aluminum	mg/kg	**6160**	**8370**	**6080**	**6420**	**20700**	**6400**	**2600**	**6600**	-	-	-
Antimony	mg/kg	**22.6 J**	**5.6 J**	**4.7 J**	**22.0 J**	**191 J**	**4.1 J**	**0.50 J**	**0.61 J**	-	-	-
Arsenic	mg/kg	**19.4**	**38.8**	**13.6**	**12.8**	**13.4**	**33.1**	**7.8**	**13**	-	-	-
Barium	mg/kg	**971**	**675**	**622**	**501**	**1400**	**377**	**54**	**320**	-	-	-
Beryllium	mg/kg	**0.52 J**	**0.38 J**	**1.0 J**	**0.59 J**	**0.50 J**	**2.5 J**	**0.23**	**3.2**	-	-	-
Cadmium	mg/kg	**10.1 J**	**5.3 J**	**2.1 J**	**64.0 J**	**11.2 J**	**21.7 J**	**0.53**	**0.86**	-	-	-
Calcium	mg/kg	**59700**	**50900**	**36900**	**34200**	**50200**	**14700**	**140000 J**	**2600 J**	-	-	-
Chromium	mg/kg	**63.1 J**	**49.2 J**	**62.7 J**	**38.0 J**	**101 J**	**32.5 J**	**9.0**	**23**	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**11.9**	**14.0**	**6.1 J**	**11.6 J**	**11.9 J**	**14.1 J**	**3.2**	**9.2**	-	-	-
Copper	mg/kg	**7340 J**	**659 J**	**209**	**1940**	**2290**	**518**	**29**	**210**	-	-	-
Iron	mg/kg	**72100**	**83300**	**16800**	**25200**	**42100**	**9140**	**7800**	**5700**	-	-	-
Lead	mg/kg	**2380**	**749**	**604**	**2210**	**6180**	**252**	**48**	**69**	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**20500**	**15700**	**14100 J**	**10300 J**	**18400 J**	**4680 J**	**45000**	**800**	-	-	-
Manganese	mg/kg	**557 J**	**598 J**	**291**	**408**	**554**	**80.6**	**240**	**37**	-	-	-
Mercury	mg/kg	**2.6**	**0.25**	**0.22**	**0.20**	**0.32**	**0.37**	**0.035 J**	**0.70**	-	-	-
Nickel	mg/kg	**87.9 J**	**71.6 J**	**19.3 J**	**459 J**	**145 J**	**25.2 J**	**10**	**19**	-	-	-
Potassium	mg/kg	**1090**	**1350**	**936**	**2360**	**660 J**	**830**	**470 J**	**970 J**	-	-	-
Selenium	mg/kg	161 U	158 U	**3.3 J**	**0.91 J**	37.5 U	**7.6 J**	**0.54 J**	**4.5**	-	-	-
Silver	mg/kg	**2.5**	**4.5**	**0.81 J**	**1.9 J**	**5.0 J**	1.4 U	**0.14 J**	**0.28**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU16)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**	**TT-24**	**VAS-5**	**BH30-13**	**BH31-13**
Sample ID:		**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**	**S-38443-070213-JT-087**	**S-38443-070113-JC-076**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**	**7/2/2013**	**7/1/2013**
Sample Depth:		**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**	**29.5-31.5 ft BGS**	**18-20 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**833**	**882**	**303 J**	**1060**	**683 J**	**193 J**	**160 J**	**290**	-	-	-
Thallium	mg/kg	**0.20**	**0.17**	0.23 U	0.61 U	3.0 U	**0.53**	**0.18 J**	**0.50**	-	-	-
Vanadium	mg/kg	**22.1 J**	**18.2 J**	**26.0**	**19.6**	**19.1**	**44.4**	**12**	**33**	-	-	-
Zinc	mg/kg	**1790**	**1460**	**739**	**1160**	**1630**	**513**	**57**	**240**	-	-	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	210 U	4200 U	41 U	400 U	50 U	46 U	23 U	140 U	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	**1700**	**15000**	41 U	400 U	50 U	46 U	19 U	120 U	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	210 U	4200 U	41 U	400 U	50 U	46 U	**160**	150 U	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	**1600**	**4700**	**120 J**	400 U	**51**	**53**	23 U	**2600**	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	210 U	4200 U	41 U	400 U	50 U	46 U	**63**	130 U	-	-	-
Pesticides												
4,4'-DDD	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	33 U	81 U	-	-	-
4,4'-DDE	µg/kg	**93 J**	**28 J**	210 U	210 U	260 U	240 U	12 U	29 U	-	-	-
4,4'-DDT	µg/kg	220 UJ	110 UJ	210 U	210 U	260 U	240 U	14 U	34 U	-	-	-
alpha-BHC	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	16 U	39 U	-	-	-
alpha-Chlordane	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	38 U	93 U	-	-	-
beta-BHC	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	39 U	95 U	-	-	-
delta-BHC	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	13 U	32 U	-	-	-
Dieldrin	µg/kg	220 U	**38 J**	210 U	210 U	260 U	240 U	8.9 U	22 U	-	-	-
Endosulfan I	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	13 U	32 U	-	-	-
Endosulfan II	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	18 U	44 U	-	-	-
Endosulfan sulfate	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	12 U	29 U	-	-	-
Endrin	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	14 U	34 U	-	-	-
Endrin aldehyde	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	18 U	44 U	-	-	-
Endrin ketone	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	11 U	27 U	-	-	-
gamma-BHC (lindane)	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	29 U	71 U	-	-	-
gamma-Chlordane	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	15 U	37 U	-	-	-
Heptachlor epoxide	µg/kg	220 U	110 U	210 U	210 U	260 U	240 U	24 U	59 U	-	-	-
Methoxychlor	µg/kg	420 U	210 U	410 U	400 U	500 U	460 U	12 UJ	29 UJ	-	-	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	2600 U	500 U	1200 U	490 U	30 U	1400 U	-	-	-	-	-
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	**32**	**730**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	**510**	**6300**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**21**	**870**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**68**	**1200**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**1.3 J**	**68**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**6.0**	**340**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**1.9 J**	**27 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**3.8 J**	**110 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**7.0**	**100**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	0.34 U	1.0 U	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**5.5**	**100**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**1.6 J**	**66**	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	**2.6 J**	**30 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**2.8**	**140**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**3.4**	**110**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**4.3**	**53**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU16)	on-site (EU17)	on-site (EU17)
Sample Location:		**TT-7**	**TT-7**	**TT-21**	**TT-21**	**TT-22**	**TT-22**	**TT-24**	**TT-24**	**VAS-5**	**BH30-13**	**BH31-13**
Sample ID:		**S-38443-100708-KMV-061**	**S-38443-100708-KMV-063**	**S-38443-100808-KMV-068**	**S-38443-100808-KMV-069**	**S-38443-100808-KMV-066**	**S-38443-100808-KMV-067**	**SO-38443-032018-BW-002**	**SO-38443-032018-BW-001**	**S-38443-121508-KMV-096**	**S-38443-070213-JT-087**	**S-38443-070113-JC-076**
Sample Date:		**10/7/2008**	**10/7/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**10/8/2008**	**3/20/2018**	**3/20/2018**	**12/15/2008**	**7/2/2013**	**7/1/2013**
Sample Depth:		**6 ft BGS**	**16 ft BGS**	**8 ft BGS**	**21 ft BGS**	**6 ft BGS**	**21 ft BGS**	**2-4 ft bgs**	**13-15 ft BGS**	**7 ft BGS**	**29.5-31.5 ft BGS**	**18-20 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**0.50 J**	**7.8 J**	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**48 J**	**1700 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**140 J**	**2300 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**75 J**	**1400 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**74 J**	**1100 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**140 J**	**1500 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	**100 J**	**1600 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**180 J**	**2000 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**12 J**	**400 J**	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	**60**	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	**20**	-	-
Cyanide (total)	mg/kg	0.64 U	**1.4**	**3.4**	**0.51 J**	**0.28 J**	**0.36 J**	0.15 U	**11**	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**77.7**	**79.3**	**81.0**	**82.2**	**66.6**	**71.5**	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**
Sample ID:		**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
Sample Date:		**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**	**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
		Duplicate								**Duplicate**			**Duplicate**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	250 U	5.5 U	0.22 U	0.24 U	12 U	0.29 U	0.50 U	0.36 U	0.35 U	1.0 U	0.85 U	0.91 U
1,1,2-Trichloroethane	µg/kg	250 U	5.5 U	0.38 U	0.40 U	12 U	0.49 U	0.85 U	0.62 U	0.60 U	1.4 U	1.2 U	1.3 U
1,1-Dichloroethane	µg/kg	250 U	5.5 U	0.32 U	0.34 U	12 U	0.42 U	0.72 U	0.52 U	0.51 U	0.84 U	0.72 U	0.77 U
1,1-Dichloroethene	µg/kg	250 U	5.5 U	0.52 U	0.56 U	12 U	0.68 U	1.2 U	0.86 U	0.83 U	1.1 U	0.94 U	1.0 U
1,2,4-Trichlorobenzene	µg/kg	250 U	5.5 U	0.23 U	0.25 U	380 U	0.30 U	R	0.38 U	0.37 U	0.70 U	0.59 U	0.63 U
1,2-Dichlorobenzene	µg/kg	250 U	5.5 U	0.21 U	0.23 U	380 U	0.28 U	R	0.35 U	0.34 U	1.4 U	1.2 U	1.2 U
1,2-Dichloroethane	µg/kg	250 U	5.5 U	0.28 U	0.30 U	12 U	0.37 U	0.63 U	0.46 U	0.45 U	0.94 U	0.80 U	0.85 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	12 U	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	250 U	5.5 U	0.30 U	0.32 U	12 U	0.39 U	0.67 U	0.49 U	0.48 U	1.0 U	0.88 U	0.94 U
1,3-Dichlorobenzene	µg/kg	250 U	5.5 U	0.28 U	0.30 U	380 U	0.37 U	R	0.46 U	0.45 U	0.99 U	0.85 U	0.90 U
1,4-Dichlorobenzene	µg/kg	250 U	5.5 U	0.34 U	0.36 U	380 U	0.44 U	R	0.55 U	0.54 U	1.1 U	0.91 U	0.98 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**60 J**	**3.0 J**	1.2 U	**5.6 J**	12 U	1.6 U	2.8 U	2.0 U	2.0 U	4.3 U	3.7 U	3.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1000 U	22 U	0.86 U	0.92 U	12 U	1.1 U	1.9 U	1.4 U	1.4 U	4.5 U	3.9 U	4.1 U
Acetone	µg/kg	1000 U	22 U	2.9 U	**45**	12 U	11 U	13 U	18 U	18 U	26 U	22 U	23 U
Benzene	µg/kg	250 U	5.5 U	0.31 U	0.33 U	12 U	0.40 U	0.70 U	0.51 U	0.49 U	0.85 U	0.72 U	0.77 U
Carbon disulfide	µg/kg	**22 J**	5.5 U	0.20 U	0.22 U	12 U	0.26 U	0.46 U	0.33 U	0.32 U	1.4 U	1.2 U	1.3 U
Carbon tetrachloride	µg/kg	250 U	5.5 U	0.24 U	0.26 U	12 U	0.32 U	0.54 U	0.40 U	0.39 U	4.0 U	3.4 U	3.6 U
Chlorobenzene	µg/kg	250 U	5.5 U	0.32 U	0.34 U	12 U	0.42 U	0.72 U	0.52 U	0.51 U	1.1 U	0.95 U	1.0 U
Chloroethane	µg/kg	250 U	5.5 U	0.37 U	0.39 U	12 U	0.48 U	0.83 U	0.60 U	0.59 U	1.5 U	1.3 U	1.3 U
Chloroform (Trichloromethane)	µg/kg	250 U	5.5 U	0.22 U	0.24 U	12 U	0.29 U	0.50 U	0.36 U	0.35 U	0.96 U	0.82 U	0.87 U
cis-1,2-Dichloroethene	µg/kg	250 U	5.5 U	0.27 U	0.29 U	-	0.35 U	0.61 U	0.44 U	0.43 U	0.79 U	0.68 U	0.72 U
Cyclohexane	µg/kg	510 U	11 U	0.20 U	0.22 U	-	0.26 U	0.46 U	0.33 U	0.32 U	1.7 U	1.4 U	1.5 U
Ethylbenzene	µg/kg	**18 J**	5.5 U	0.26 U	0.28 U	12 U	0.34 U	0.59 U	0.43 U	0.42 U	1.3 U	1.1 U	1.2 U
Isopropyl benzene	µg/kg	**73 J**	5.5 U	0.19 U	0.21 U	-	0.25 U	0.43 U	0.32 U	0.31 U	1.0 U	0.86 U	0.92 U
Methyl acetate	µg/kg	**210 J**	**1.6 J**	1.1 U	1.2 U	-	1.5 U	2.5 U	1.9 U	1.8 U	4.1 U	3.5 U	3.8 U
Methyl cyclohexane	µg/kg	**16 J**	11 U	0.22 U	0.24 U	-	0.29 U	0.50 U	0.36 U	0.35 U	1.5 U	1.3 U	1.4 U
Methyl tert butyl ether (MTBE)	µg/kg	250 U	5.5 U	0.26 U	0.28 U	-	0.34 U	0.59 U	0.43 U	0.42 U	1.0 U	0.85 U	0.91 U
Methylene chloride	µg/kg	250 U	**0.96 J**	0.23 U	0.25 U	12 JBU	1.7 U	4.4 U	2.0 U	2.0 U	15 U	12 U	13 U
Styrene	µg/kg	250 U	5.5 U	0.26 U	0.28 U	12 U	0.34 U	0.59 U	0.43 U	0.42 U	1.4 U	1.2 U	1.3 U
Tetrachloroethene	µg/kg	**37 J**	5.5 U	0.36 U	0.38 U	12 U	0.47 U	0.80 U	0.59 U	0.57 U	**1.5 J**	0.76 U	0.81 U
Toluene	µg/kg	250 U	**0.52 J**	0.33 U	**1.1 J**	12 U	0.43 U	0.74 U	0.54 U	0.52 U	0.94 U	0.80 U	0.86 U
trans-1,2-Dichloroethene	µg/kg	250 U	5.5 U	0.37 U	0.39 U	-	0.48 U	0.83 U	0.60 U	0.59 U	0.57 U	0.48 U	0.51 U
Trichloroethene	µg/kg	250 U	5.5 U	0.39 U	0.42 U	12 U	0.52 U	0.89 U	0.65 U	0.63 U	0.77 U	**0.89 J**	**1.4 J**
Trichlorofluoromethane (CFC-11)	µg/kg	250 U	5.5 U	0.23 U	0.25 U	-	0.30 U	0.52 U	0.38 U	0.37 U	1.3 U	1.1 U	1.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	250 U	5.5 U	0.47 U	0.51 U	-	0.62 U	1.1 U	0.78 U	0.76 U	1.6 U	1.3 U	1.4 U
Vinyl chloride	µg/kg	250 U	5.5 U	0.27 U	0.29 U	12 U	0.35 U	0.61 U	0.44 U	0.43 U	1.0 U	0.87 U	0.93 U
Xylenes (total)	µg/kg	**83 J**	11 U	0.38 U	0.41 U	12 U	0.50 U	0.87 U	0.63 U	0.62 U	1.9 U	1.6 U	1.8 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	23 U	24 U	380 U	22 U	27 U	25 U	170 U	50 U	96 U	44 U
2-Chlorophenol	µg/kg	-	-	9.5 U	10 U	380 U	9.1 U	11 U	10 U	69 U	13 U	24 U	11 U
2-Methylnaphthalene	µg/kg	-	-	0.58 U	0.61 U	380 U	**27**	**30**	**63**	**75**	**17 J**	**33 J**	**29**
2-Methylphenol	µg/kg	-	-	13 U	13 U	380 U	12 U	15 U	14 U	93 U	39 U	74 U	34 U
3&4-Methylphenol	µg/kg	-	-	23 U	24 U	-	22 U	27 U	25 U	170 U	36 U	70 U	32 U
3,3'-Dichlorobenzidine	µg/kg	-	-	21 U	22 U	-	20 U	25 U	22 U	150 U	54 U	100 U	47 U
Acenaphthene	µg/kg	-	-	0.88 U	0.93 U	380 U	**17**	**19**	**14**	6.4 U	**17 J**	**61**	**33**
Acenaphthylene	µg/kg	-	-	0.40 U	0.43 U	380 U	**33**	0.48 U	**11**	2.9 U	**10 J**	**27 J**	**13 J**
Acetophenone	µg/kg	-	-	11 U	11 U	-	10 U	**14 J**	**14 J**	78 U	14 U	26 U	**16 J**
Anthracene	µg/kg	-	-	0.90 U	0.95 U	380 U	**65**	**49**	**52**	**130**	**34**	**310 J**	**110 J**
Benzaldehyde	µg/kg	-	-	14 UJ	**15 J**	-	13 U	16 U	15 U	100 U	29 U	55 U	25 U
Benzo(a)anthracene	µg/kg	-	-	0.73 U	0.77 U	380 U	**280**	**140**	**200 J**	**1000 J**	**170**	**1500 J**	**440 J**
Benzo(a)pyrene	µg/kg	-	-	0.74 U	0.78 U	380 U	**270**	**120**	**210 J**	**720 J**	**210**	**1300**	**450**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)
Sample Location:		BH31-13	BH31-13	BH162-18	BH163-18	S05(OEPA)	SS-1	SS-2	SS-3	SS-3	SS-4	SS-5	SS-5
Sample ID:		S-38443-070113-JC-077	S-38443-070113-JC-078	S-38443-050818-JC-071	S-38443-050818-JC-070	96-DV-03-S05	S-38443-110917-BW-039	S-38443-110917-BW-037	S-38443-110917-BW-034	S-38443-110917-BW-035	SS-38443-122018-JC-004	SS-38443-122018-JC-005	SS-38443-122018-JC-226
Sample Date:		7/1/2013	7/1/2013	5/8/2018	5/8/2018	7/9/1996	11/9/2017	11/9/2017	11/9/2017	11/9/2017	12/20/2018	12/20/2018	12/20/2018
Sample Depth:		18-20 ft BGS	26.5-28.5 ft BGS	16-18 ft BGS	17-19 ft BGS	5 ft BGS	0-2 ft BGS	0.2-2.2 ft BGS	0.3-2.3 ft BGS	0.3-2.3 ft BGS	0-2 ft BGS	0.33-2.33 ft BGS	0.33-2.33 ft BGS
		Duplicate								Duplicate			Duplicate
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	0.68 U	0.72 U	380 U	**370**	**180**	**340 J**	**1200 J**	**300**	**1900**	**780**
Benzo(g,h,i)perylene	µg/kg	-	-	0.40 U	0.43 U	380 U	**210**	**86**	**190 J**	**570 J**	**170**	**610 J**	**160 J**
Benzo(k)fluoranthene	µg/kg	-	-	0.79 U	0.83 U	380 U	**150**	**82**	**120 J**	**430 J**	**110**	**820 J**	**220 J**
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	4.0 U	4.3 U	-	3.9 U	**6.3 J**	**13 J**	29 U	21 U	41 U	19 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	44 U	46 U	380 U	**27 J**	**81 J**	**110 J**	**5100 J**	**100**	**130 J**	**130**
Butyl benzylphthalate (BBP)	µg/kg	-	-	12 U	12 U	380 U	11 U	14 U	12 U	84 U	28 U	53 U	24 U
Caprolactam	µg/kg	-	-	43 U	45 U	-	41 U	50 U	46 U	310 U	94 U	180 U	83 U
Carbazole	µg/kg	-	-	31 U	33 U	380 U	30 U	37 U	34 U	230 U	24 U	**110 J**	**51 J**
Chrysene	µg/kg	-	-	1.3 U	1.3 U	**27 J**	**290**	**150**	**270 J**	**1200 J**	**230**	**1400 J**	**460 J**
Dibenz(a,h)anthracene	µg/kg	-	-	0.76 U	0.80 U	380 U	**54**	0.90 U	**54**	5.6 U	**39**	**200 J**	**48 J**
Dibenzofuran	µg/kg	-	-	0.76 U	0.80 U	380 U	**15 J**	**20 J**	**28 J**	5.6 U	16 U	**43 J**	**25 J**
Diethyl phthalate	µg/kg	-	-	19 U	19 U	380 U	18 U	22 U	20 U	130 U	39 U	74 U	34 U
Dimethyl phthalate	µg/kg	-	-	20 U	21 U	380 U	19 U	23 U	21 U	140 U	18 U	34 U	15 U
Di-n-butylphthalate (DBP)	µg/kg	-	-	17 U	18 U	380 U	**20 J**	**45 J**	**88**	**150 J**	28 U	53 U	**45 J**
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	9.1 U	9.6 U	380 U	8.8 U	11 U	9.8 U	67 U	35 U	67 U	31 U
Fluoranthene	µg/kg	-	-	0.64 U	0.67 U	**31 J**	**540**	**320**	**310 J**	**1800 J**	**380**	**3200 J**	**1000 J**
Fluorene	µg/kg	-	-	0.61 U	0.65 U	380 U	**17**	**19**	**9.1**	4.5 U	**11 J**	**61**	**29**
Hexachlorobenzene	µg/kg	-	-	2.4 U	2.6 U	380 U	2.3 U	2.9 U	2.6 U	18 U	3.6 U	6.8 U	3.1 U
Hexachlorobutadiene	µg/kg	-	-	6.5 U	6.8 U	380 U	6.2 U	7.6 U	7.0 U	47 U	15 U	29 U	13 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	0.40 U	0.43 U	380 U	**180**	**68**	**150 J**	**500 J**	**160**	**580 J**	**160 J**
Isophorone	µg/kg	-	-	15 U	16 U	380 U	14 U	18 U	16 U	110 U	15 U	29 U	13 U
Naphthalene	µg/kg	-	-	0.95 U	1.0 U	380 U	**21**	**30**	**58**	**80**	**20**	**32 J**	**41**
N-Nitrosodiphenylamine	µg/kg	-	-	24 U	26 U	380 U	23 U	29 U	26 U	180 U	15 U	29 U	13 U
Pentachlorophenol	µg/kg	-	-	11 U	11 U	960 U	10 U	12 U	11 U	77 U	73 U	140 U	64 U
Phenanthrene	µg/kg	-	-	0.84 U	0.89 U	**21 J**	**200**	**220**	**190 J**	**800 J**	**160**	**1100**	**390**
Phenol	µg/kg	-	-	8.4 U	8.9 U	380 U	8.1 U	9.9 U	9.1 U	62 U	10 U	19 U	**19 J**
Pyrene	µg/kg	-	-	0.51 U	0.54 U	**30 J**	**440**	**280**	**310 J**	**1500 J**	**290**	**1900**	**710**
Metals													
Aluminum	mg/kg	-	-	**7400**	**6100**	**9920**	**4700 J**	**6300 J**	**5900 J**	**4300 J**	**6500**	**5600**	**6900**
Antimony	mg/kg	-	-	0.11 U	**0.14 J**	**3.5 B**	**0.63 J**	**2.0 J**	**6.9 J**	**1.6 J**	**0.20**	**2.5 J**	**12 J**
Arsenic	mg/kg	-	-	**6.7**	**4.0**	**12.2**	**7.3 J**	**25 J**	**16 J**	**12 J**	**6.2**	**14**	**19**
Barium	mg/kg	-	-	**72**	**86**	**268**	**87 J**	**380 J**	**900 J**	**320 J**	**130**	**270**	**740**
Beryllium	mg/kg	-	-	**0.35**	**0.35**	**0.68 B**	**0.48**	**3.9**	**1.5**	**2.9**	**0.57**	**0.60**	**0.70**
Cadmium	mg/kg	-	-	**0.26**	**0.31**	0.23 U	**0.37 J**	**4.0 J**	**5.0 J**	**0.79 J**	**0.54**	**6.4**	**14**
Calcium	mg/kg	-	-	**60000**	**45000**	**25500**	**110000 J**	**8100 J**	**56000 J**	**44000 J**	**71000**	**77000**	**78000**
Chromium	mg/kg	-	-	**11**	**8.6**	**12.6**	**9.4 J**	**27 J**	**38 J**	**13 J**	**14**	**29**	**46**
Chromium III (trivalent)	mg/kg	-	-	**10**	**8.6**	-	-	-	-	-	**13**	**28**	**46**
Chromium VI (hexavalent)	mg/kg	-	-	**0.34 J**	1.5 U	-	-	-	-	-	**0.31 J**	**0.72 J**	1.3 U
Cobalt	mg/kg	-	-	**5.4**	**4.6**	**7.9 B**	**4.2 J**	**12 J**	**19 J**	**8.0 J**	**5.2**	**9.0 J**	**67 J**
Copper	mg/kg	-	-	**9.0**	**9.4**	**18.3**	**24 J**	**1600 J**	**440 J**	**89 J**	**40 J**	**600 J**	**770 J**
Iron	mg/kg	-	-	**15000**	**12000**	**19200**	**11000 J**	**10000 J**	**34000 J**	**8300 J**	**14000**	**32000**	**40000**
Lead	mg/kg	-	-	**7.4**	**6.4**	**16.8**	**58 J**	**190 J**	**760 J**	**100 J**	**51**	**280**	**330**
Lead - coarse fraction	mg/kg	-	-	-	-	-	**65**	-	**690**	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	**110**	-	**920**	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	**73**	-	**740**	-	-	-	-
Magnesium	mg/kg	-	-	**24000**	**18000**	**13200**	**30000**	**2500**	**16000**	**10000**	**23000**	**31000**	**34000**
Manganese	mg/kg	-	-	**510**	**470**	**621**	**350 J**	**140 J**	**720 J**	**300 J**	**430**	**410**	**590**
Mercury	mg/kg	-	-	0.021 U	0.025 U	0.12 U	**0.068 J**	**0.18**	**0.39**	**0.14 J**	**0.060 J**	**0.079 J**	**0.065 J**
Nickel	mg/kg	-	-	**12**	**11**	**15.1**	**11 J**	**30 J**	**47 J**	**20 J**	**15**	**43 J**	**150 J**
Potassium	mg/kg	-	-	**580**	**530**	**1010 B**	**660 J**	**760 J**	**820 J**	**620 J**	**820 J**	**800 J**	**1200 J**
Selenium	mg/kg	-	-	**0.61 J**	**0.71 J**	0.93 U	0.66 UJ	**2.8 J**	**2.1 J**	**1.8 J**	**0.48 J**	**0.77 J**	**1.3**
Silver	mg/kg	-	-	**0.022 J**	**0.027 J**	0.23 U	0.068 UJ	**0.44 J**	**1.0 J**	**0.28 J**	**0.25**	**0.33**	**0.41**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**
Sample ID:		**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
Sample Date:		**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**	**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
		Duplicate								**Duplicate**			**Duplicate**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	**97 J**	**77 J**	**364 B**	120 U	210 U	**250**	130 U	**98 J**	**140 J**	**2000 J**
Thallium	mg/kg	-	-	**0.14 J**	**0.13 J**	**2.4**	**0.16 J**	**0.51 J**	**0.26 J**	**0.41 J**	**0.20**	**0.20 J**	**0.091 J**
Vanadium	mg/kg	-	-	**17**	**15**	**24.0**	**15 J**	**35 J**	**19 J**	**20 J**	**16**	**18**	**21**
Zinc	mg/kg	-	-	**38**	**32**	**60.9**	**90 J**	**920 J**	**1400 J**	**290 J**	**110 J**	**370 J**	**560 J**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	27 U	28 U	38 U	18 U	22 U	20 U	21 U	28 U	27 U	25 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	22 U	23 U	38 U	22 U	27 U	25 U	26 U	23 U	22 U	21 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	28 U	29 U	38 U	19 U	23 U	21 U	22 U	29 U	28 U	26 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	27 U	28 U	38 U	15 U	**120**	**68**	**35 J**	**57 J**	**630**	**710**
Aroclor-1260 (PCB-1260)	µg/kg	-	-	25 U	27 U	38 U	20 U	24 U	22 U	23 U	27 U	26 U	24 U
Pesticides													
4,4'-DDD	µg/kg	-	-	1.7 U	89 U	3.8 U	3.7 U	4.5 U	41 U	4.2 U	1.8 U	1.8 U	1.6 U
4,4'-DDE	µg/kg	-	-	1.7 U	91 U	**0.44 PJ**	1.4 U	1.6 U	15 U	1.5 U	1.9 U	1.8 U	1.7 U
4,4'-DDT	µg/kg	-	-	1.3 U	68 U	**0.71 PJ**	1.6 U	1.9 U	17 U	1.8 U	**3.7 J**	1.3 U	1.2 U
alpha-BHC	µg/kg	-	-	1.0 U	55 U	2 U	1.8 U	2.2 U	20 U	2.0 U	1.1 U	1.1 U	1.0 U
alpha-Chlordane	µg/kg	-	-	1.7 U	91 U	2 U	4.3 U	5.1 U	47 U	4.8 U	1.9 U	**13**	**12**
beta-BHC	µg/kg	-	-	2.0 U	100 U	2 U	4.4 U	5.3 U	49 U	5.0 U	2.2 U	2.1 U	1.9 U
delta-BHC	µg/kg	-	-	1.9 U	100 U	2 U	1.5 U	1.8 U	16 U	1.7 U	2.1 U	2.0 U	1.8 U
Dieldrin	µg/kg	-	-	1.3 U	66 U	3.8 U	1.0 U	1.2 U	11 U	1.1 U	1.4 U	**12 J**	**12 J**
Endosulfan I	µg/kg	-	-	1.4 U	72 U	2 U	1.5 U	1.8 U	16 U	1.7 U	1.5 U	1.4 U	1.3 U
Endosulfan II	µg/kg	-	-	1.7 U	89 U	3.8 U	2.0 U	2.4 U	22 U	2.3 U	1.8 U	1.8 U	1.6 U
Endosulfan sulfate	µg/kg	-	-	1.5 U	77 U	3.8 U	1.4 U	1.6 U	15 U	1.5 U	1.6 U	1.5 U	1.4 U
Endrin	µg/kg	-	-	2.2 U	110 U	3.8 U	1.6 U	**2.6 NJ**	17 U	1.8 U	2.4 U	2.3 U	2.1 U
Endrin aldehyde	µg/kg	-	-	1.5 U	79 U	**4 P**	2.0 U	**3.0 J**	22 U	2.3 U	1.6 U	**1.7 NJ**	1.4 U
Endrin ketone	µg/kg	-	-	1.0 U	54 U	3.8 U	1.2 U	1.5 U	14 U	1.4 U	1.1 U	1.1 U	0.97 U
gamma-BHC (lindane)	µg/kg	-	-	2.0 U	110 U	2 U	3.3 U	3.9 U	36 U	3.7 U	2.2 U	2.1 U	2.0 U
gamma-Chlordane	µg/kg	-	-	1.4 U	74 U	2 U	1.7 U	2.0 U	19 U	1.9 U	1.5 U	**12**	**11 J**
Heptachlor epoxide	µg/kg	-	-	1.6 U	87 U	2 U	2.7 U	3.2 U	30 U	3.1 U	1.8 U	1.7 U	1.6 U
Methoxychlor	µg/kg	-	-	7.5 U	400 U	**0.94 PJ**	**2.8 NJ**	**1.6 NJ**	**19 NJ**	**1.8 J**	8.2 U	7.8 U	7.2 U
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)
Sample Location:		**BH31-13**	**BH31-13**	**BH162-18**	**BH163-18**	**S05(OEPA)**	**SS-1**	**SS-2**	**SS-3**	**SS-3**	**SS-4**	**SS-5**	**SS-5**
Sample ID:		**S-38443-070113-JC-077**	**S-38443-070113-JC-078**	**S-38443-050818-JC-071**	**S-38443-050818-JC-070**	**96-DV-03-S05**	**S-38443-110917-BW-039**	**S-38443-110917-BW-037**	**S-38443-110917-BW-034**	**S-38443-110917-BW-035**	**SS-38443-122018-JC-004**	**SS-38443-122018-JC-005**	**SS-38443-122018-JC-226**
Sample Date:		**7/1/2013**	**7/1/2013**	**5/8/2018**	**5/8/2018**	**7/9/1996**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**18-20 ft BGS**	**26.5-28.5 ft BGS**	**16-18 ft BGS**	**17-19 ft BGS**	**5 ft BGS**	**0-2 ft BGS**	**0.2-2.2 ft BGS**	**0.3-2.3 ft BGS**	**0.3-2.3 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0.33-2.33 ft BGS**
		Duplicate								**Duplicate**			**Duplicate**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	0.24 U	**0.24 J**	0.17 U	0.50 U	0.63 U	**13 J**	0.57 UJ	R	**8.7 J**	**4.9 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**	**SS-97**	**SS-127**	**SS-128**
Sample ID:		**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	1.1 U	1.0 U	1.0 U	0.83 U	0.72 U	0.79 U	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	1.6 U	1.4 U	1.4 U	1.1 U	0.99 U	1.1 U	-	-	-	-	-
1,1-Dichloroethane	µg/kg	0.95 U	0.86 U	0.87 U	0.70 U	0.61 U	0.67 U	-	-	-	-	-
1,1-Dichloroethene	µg/kg	1.2 U	1.1 U	1.1 U	0.91 U	0.79 U	0.87 U	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	0.78 U	0.71 U	0.72 UJ	0.58 U	0.50 U	0.55 U	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	1.5 U	1.4 U	1.4 UJ	1.1 U	0.97 U	1.1 U	-	-	-	-	-
1,2-Dichloroethane	µg/kg	1.1 U	0.95 U	0.97 U	0.78 U	0.68 U	0.74 U	-	-	-	-	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	1.2 U	1.1 U	1.1 U	0.86 U	0.75 U	0.82 U	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	1.1 U	1.0 U	1.0 UJ	0.83 U	0.71 U	0.79 U	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	1.2 U	1.1 U	1.1 UJ	0.89 U	0.77 U	0.85 U	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	4.9 U	4.4 U	4.5 U	3.6 U	3.1 U	3.4 U	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	5.1 U	4.6 U	4.7 U	3.8 U	3.3 U	3.6 U	-	-	-	-	-
Acetone	µg/kg	29 U	26 U	26 U	21 U	18 U	20 U	-	-	-	-	-
Benzene	µg/kg	0.96 U	0.86 U	0.88 U	0.71 U	0.61 U	0.67 U	-	-	-	-	-
Carbon disulfide	µg/kg	1.6 U	1.4 U	1.5 U	1.2 U	1.0 U	1.1 U	-	-	-	-	-
Carbon tetrachloride	µg/kg	4.5 U	4.0 U	4.1 U	3.3 U	2.8 U	3.1 U	-	-	-	-	-
Chlorobenzene	µg/kg	1.3 U	1.1 U	1.2 U	0.93 U	0.80 U	0.88 U	-	-	-	-	-
Chloroethane	µg/kg	1.7 U	1.5 U	1.5 U	1.2 U	1.1 U	1.2 U	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	1.1 U	0.97 U	0.99 U	0.80 U	0.69 U	0.76 U	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	0.89 U	0.80 U	0.82 U	0.66 U	0.57 U	0.63 U	-	-	-	-	-
Cyclohexane	µg/kg	1.9 U	1.7 U	1.7 U	1.4 U	1.2 U	1.3 U	-	-	-	-	-
Ethylbenzene	µg/kg	1.4 U	1.3 U	1.3 U	1.1 U	0.92 U	1.0 U	-	-	-	-	-
Isopropyl benzene	µg/kg	1.1 U	1.0 U	1.0 U	0.84 U	0.73 U	0.80 U	-	-	-	-	-
Methyl acetate	µg/kg	4.7 U	4.2 U	4.3 U	3.4 U	3.0 U	3.3 U	-	-	-	-	-
Methyl cyclohexane	µg/kg	1.7 U	1.5 U	1.5 U	1.2 U	1.1 U	1.2 U	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	1.1 U	1.0 U	1.0 U	0.83 U	0.72 U	0.79 U	-	-	-	-	-
Methylene chloride	µg/kg	16 U	15 U	15 U	12 U	11 U	12 U	-	-	-	-	-
Styrene	µg/kg	1.6 U	1.4 U	1.5 U	1.2 U	1.0 U	1.1 U	-	-	-	-	-
Tetrachloroethene	µg/kg	**2.4 J**	0.90 U	0.92 U	0.74 U	0.64 U	0.70 U	-	-	-	-	-
Toluene	µg/kg	1.1 U	0.95 U	0.97 U	0.78 U	0.68 U	0.74 U	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	0.64 U	0.57 U	0.58 U	0.47 U	0.41 U	0.45 U	-	-	-	-	-
Trichloroethene	µg/kg	0.87 U	0.78 U	0.80 U	0.64 U	0.55 U	0.61 U	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	1.5 U	1.3 U	1.4 U	1.1 U	0.94 U	1.0 U	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	µg/kg	1.8 U	1.6 U	1.6 U	1.3 U	1.1 U	1.2 U	-	-	-	-	-
Vinyl chloride	µg/kg	1.1 U	1.0 U	1.1 U	0.85 U	0.73 U	0.81 U	-	-	-	-	-
Xylenes (total)	µg/kg	2.2 U	2.0 U	2.0 U	1.6 U	1.4 U	1.5 U	-	-	-	-	-
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	150 UJ	47 U	81 U	48 U	48 U	45 U	-	-	-	-	-
2-Chlorophenol	µg/kg	38 UJ	12 U	20 U	12 U	12 U	11 U	-	-	-	-	-
2-Methylnaphthalene	µg/kg	**18 J**	**43 J**	**72**	**120**	**6.8 J**	**13 J**	-	-	-	-	-
2-Methylphenol	µg/kg	120 UJ	37 U	63 U	37 U	37 U	35 U	-	-	-	-	-
3&4-Methylphenol	µg/kg	110 UJ	34 U	58 U	35 U	35 U	33 U	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	160 UJ	51 U	87 U	51 U	51 U	48 U	-	-	-	-	-
Acenaphthene	µg/kg	11 UJ	**33 J**	**31**	**10 J**	3.4 U	3.2 U	-	-	-	-	-
Acenaphthylene	µg/kg	**29 J**	**46 J**	**36**	**9.1 J**	4.8 U	**12 J**	-	-	-	-	-
Acetophenone	µg/kg	41 UJ	**22 J**	22 U	13 U	13 U	12 U	-	-	-	-	-
Anthracene	µg/kg	**44 J**	**210 J**	**96**	**25**	**5.5 J**	**22**	-	-	-	-	-
Benzaldehyde	µg/kg	86 UJ	**30 J**	46 U	**27 J**	27 U	26 U	-	-	-	-	-
Benzo(a)anthracene	µg/kg	**230 J**	**950 J**	**540**	**99**	**24**	**93**	-	-	-	-	-
Benzo(a)pyrene	µg/kg	**310 J**	**1000 J**	**600**	**96**	**24**	**110**	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)
Sample Location:		SS-6	SS-7	SS-8	SS-9	SS-10	SS-11	SS-95	SS-96	SS-97	SS-127	SS-128
Sample ID:		SS-38443-122018-JC-006	SS-38443-122018-JC-007	SS-38443-122018-JC-008	SS-38443-122018-JC-009	SS-38443-122018-JC-010	SS-38443-122018-JC-011	SS-38443-122018-JC-095	SS-38443-122018-JC-096	SS-38443-122018-JC-097	SS-38443-122018-JC-127	SS-38443-122018-JC-128
Sample Date:		12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018	12/20/2018
Sample Depth:		0.33-2.33 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0.33-2.33 ft BGS	0-2 ft BGS	0-2 ft BGS
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**440 J**	**1600 J**	**960**	**170**	**37**	**200**	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	**250 J**	**460 J**	**490**	**95**	**19**	**49**	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	**150 J**	**600 J**	**380**	**59**	**9.3 J**	**60**	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	64 UJ	20 U	34 U	20 U	20 U	19 U	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	190 UJ	**160 J**	**150**	61 U	61 U	57 U	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	83 UJ	**580**	**75 J**	26 U	26 U	25 U	-	-	-	-	-
Caprolactam	µg/kg	280 UJ	88 U	150 U	89 U	89 U	84 U	-	-	-	-	-
Carbazole	µg/kg	71 UJ	**70**	**67 J**	23 U	23 U	21 U	-	-	-	-	-
Chrysene	µg/kg	**300 J**	**1000 J**	**650**	**140**	**25**	**110**	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	**60 J**	**130 J**	**140**	**27**	8.3 U	7.8 U	-	-	-	-	-
Dibenzofuran	µg/kg	49 UJ	**41 J**	**41 J**	**37 J**	16 U	15 U	-	-	-	-	-
Diethyl phthalate	µg/kg	120 UJ	37 U	63 U	37 U	37 U	35 U	-	-	-	-	-
Dimethyl phthalate	µg/kg	53 UJ	17 U	28 U	17 U	17 U	16 U	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	83 UJ	**110 J**	44 U	26 U	26 U	25 U	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	110 UJ	33 UJ	56 U	33 U	33 U	32 U	-	-	-	-	-
Fluoranthene	µg/kg	**450 J**	**2100**	**1100**	**200**	**39**	**190**	-	-	-	-	-
Fluorene	µg/kg	10 UJ	**44 J**	**35**	**9.0 J**	3.3 U	**5.4 J**	-	-	-	-	-
Hexachlorobenzene	µg/kg	11 UJ	3.4 UJ	5.7 U	3.4 U	3.4 U	3.2 U	-	-	-	-	-
Hexachlorobutadiene	µg/kg	45 UJ	14 UJ	24 U	14 U	14 U	14 U	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	**220 J**	**450 J**	**450**	**65**	**15 J**	**47**	-	-	-	-	-
Isophorone	µg/kg	45 UJ	14 U	24 U	14 U	14 U	14 U	-	-	-	-	-
Naphthalene	µg/kg	9.1 UJ	**53 J**	**70**	**74**	2.9 U	**9.5 J**	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	45 UJ	14 U	24 U	14 U	14 U	14 U	-	-	-	-	-
Pentachlorophenol	µg/kg	220 UJ	68 U	120 U	69 U	69 U	65 U	-	-	-	-	-
Phenanthrene	µg/kg	**200 J**	**630 J**	**500**	**170**	**21**	**84**	-	-	-	-	-
Phenol	µg/kg	30 UJ	9.4 U	16 U	9.5 U	9.5 U	9.0 U	-	-	-	-	-
Pyrene	µg/kg	**280 J**	**1400 J**	**840**	**150**	**32**	**140**	-	-	-	-	-
Metals												
Aluminum	mg/kg	**14000**	**4600**	**11000**	**10000**	**12000**	**5500**	-	-	-	-	-
Antimony	mg/kg	**260**	**80**	**3.2**	**15**	**8.3**	**0.85**	-	-	-	-	-
Arsenic	mg/kg	**29**	**8.7**	**16**	**16**	**13**	**8.2**	-	-	-	-	-
Barium	mg/kg	**1300**	**470**	**330**	**400**	**1800**	**86**	-	-	-	-	-
Beryllium	mg/kg	**1.4**	**0.44**	**0.87**	**0.56**	**0.60**	**0.32**	-	-	-	-	-
Cadmium	mg/kg	**20**	**6.6**	**3.0**	**0.81**	**0.24**	**0.48**	-	-	-	-	-
Calcium	mg/kg	**25000**	**82000**	**62000**	**34000**	**12000**	**100000**	-	-	-	-	-
Chromium	mg/kg	**99**	**50**	**46**	**19**	**18**	**12**	-	-	-	-	-
Chromium III (trivalent)	mg/kg	**99**	**50**	**46**	**19**	**18**	**12**	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	1.8 U	2.8 U	3.3 U	1.4 U	1.4 U	1.4 U	-	-	-	-	-
Cobalt	mg/kg	**23**	**6.9**	**9.9**	**6.7**	**7.9**	**5.3**	-	-	-	-	-
Copper	mg/kg	**6000 J**	**930 J**	**310 J**	**53 J**	**19 J**	**25 J**	-	-	-	-	-
Iron	mg/kg	**30000**	**19000**	**21000**	**18000**	**20000**	**14000**	-	-	-	-	-
Lead	mg/kg	**2400**	**930**	**450**	**60**	**20**	**68**	-	-	-	-	-
Lead - coarse fraction	mg/kg	**4500 J**	-	**320 J**	-	**20 J**	-	-	-	-	-	-
Lead - fine fraction	mg/kg	**2500**	-	**300**	-	**47**	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	**4100**	-	**320**	-	**22**	-	-	-	-	-	-
Magnesium	mg/kg	**19000**	**43000**	**24000**	**17000**	**7100**	**46000**	-	-	-	-	-
Manganese	mg/kg	**760**	**330**	**540**	**530**	**760**	**320**	-	-	-	-	-
Mercury	mg/kg	**0.24**	**0.068 J**	**0.23**	**0.081 J**	**0.052 J**	**0.15**	-	-	-	-	-
Nickel	mg/kg	**330**	**60**	**43**	**19**	**19**	**17**	-	-	-	-	-
Potassium	mg/kg	**1500 J**	**680 J**	**1500 J**	**1300 J**	**1200 J**	**1200 J**	-	-	-	-	-
Selenium	mg/kg	**2.7**	**0.98**	**1.4**	**0.59 J**	**0.32 J**	**0.29 J**	-	-	-	-	-
Silver	mg/kg	**4.9**	**0.76**	**1.5**	**0.29**	**0.062 J**	**0.098 J**	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**	**SS-97**	**SS-127**	**SS-128**
Sample ID:		**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**410**	**240**	**130 J**	**87 J**	**65 J**	**140 J**	-	-	-	-	-
Thallium	mg/kg	**0.41**	**0.17**	**0.22**	**0.12**	**0.085 J**	**0.29**	-	-	-	-	-
Vanadium	mg/kg	**42**	**16**	**28**	**27**	**29**	**18**	-	-	-	-	-
Zinc	mg/kg	**4500 J**	**780 J**	**280 J**	**110 J**	**59 J**	**79 J**	-	-	-	-	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	68 U	26 U	60 U	26 U	27 U	25 U	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	56 U	22 U	50 U	21 U	22 U	21 U	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	71 U	28 U	63 U	27 U	28 U	26 U	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	**1200**	**170**	**1700**	**53 J**	27 U	**41 J**	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	65 U	25 U	58 U	25 U	25 U	24 U	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	2.2 U	1.7 U	10 U	1.7 U	1.7 U	1.7 U	-	-	-	-	-
4,4'-DDE	µg/kg	2.3 U	**4.8 J**	11 U	**2.0 J**	1.7 U	1.7 U	-	-	-	-	-
4,4'-DDT	µg/kg	1.7 U	**9.3 NJ**	7.9 U	1.3 U	1.3 U	**3.1 J**	-	-	-	-	-
alpha-BHC	µg/kg	1.4 U	1.0 U	6.3 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-
alpha-Chlordane	µg/kg	2.3 U	1.7 U	10 U	1.7 U	1.7 U	1.7 U	-	-	-	-	-
beta-BHC	µg/kg	2.6 U	2.0 U	12 U	2.0 U	2.0 U	2.0 U	-	-	-	-	-
delta-BHC	µg/kg	2.6 U	1.9 U	12 U	1.9 U	1.9 U	1.9 U	-	-	-	-	-
Dieldrin	µg/kg	**11 NJ**	**7.2 J**	7.7 U	1.3 U	1.3 U	1.2 U	-	-	-	-	-
Endosulfan I	µg/kg	1.8 U	1.4 U	8.4 U	1.4 U	1.4 U	1.4 U	-	-	-	-	-
Endosulfan II	µg/kg	2.2 U	1.7 U	10 U	1.7 U	1.7 U	1.7 U	-	-	-	-	-
Endosulfan sulfate	µg/kg	1.9 U	1.5 U	8.9 U	1.5 U	1.5 U	1.4 U	-	-	-	-	-
Endrin	µg/kg	2.9 U	2.2 U	13 U	2.2 U	2.2 U	2.2 U	-	-	-	-	-
Endrin aldehyde	µg/kg	2.0 U	1.5 U	9.1 U	1.5 U	1.5 U	1.5 U	-	-	-	-	-
Endrin ketone	µg/kg	1.3 U	1.0 U	6.2 U	1.0 U	1.0 U	1.0 U	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	2.7 U	2.1 U	12 U	2.0 U	2.1 U	2.0 U	-	-	-	-	-
gamma-Chlordane	µg/kg	1.9 U	**1.4 NJ**	8.6 U	1.4 U	1.4 U	1.4 U	-	-	-	-	-
Heptachlor epoxide	µg/kg	**3.5 NJ**	**2.1 J**	10 U	1.6 U	1.7 U	1.6 U	-	-	-	-	-
Methoxychlor	µg/kg	9.9 U	7.5 U	46 U	7.5 U	7.6 U	7.4 U	-	-	-	-	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	16 U	16 U	18 U	19 U	16 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)
Sample Location:		**SS-6**	**SS-7**	**SS-8**	**SS-9**	**SS-10**	**SS-11**	**SS-95**	**SS-96**	**SS-97**	**SS-127**	**SS-128**
Sample ID:		**SS-38443-122018-JC-006**	**SS-38443-122018-JC-007**	**SS-38443-122018-JC-008**	**SS-38443-122018-JC-009**	**SS-38443-122018-JC-010**	**SS-38443-122018-JC-011**	**SS-38443-122018-JC-095**	**SS-38443-122018-JC-096**	**SS-38443-122018-JC-097**	**SS-38443-122018-JC-127**	**SS-38443-122018-JC-128**
Sample Date:		**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**	**12/20/2018**
Sample Depth:		**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.33-2.33 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**0.88 J**	**0.49 J**	**0.29 J**	R	R	R	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**
Sample ID:		**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-	-	0.29 U	-	0.34 U	0.52 U	-
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-	-	0.49 U	-	0.58 U	R	-
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-	-	0.41 U	-	0.49 U	0.75 U	-
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-	-	0.68 U	-	0.80 U	1.2 U	-
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-	-	0.30 U	-	0.36 U	R	-
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-	-	0.28 U	-	0.33 U	R	-
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-	-	0.36 U	-	0.43 U	0.66 U	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-	-	0.39 U	-	0.46 U	0.71 U	-
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-	-	0.36 U	-	0.43 U	R	-
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-	-	0.44 U	-	0.52 U	R	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	-	-	-	-	-	-	-	1.6 U	-	1.9 U	2.9 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	-	-	-	-	-	-	-	1.1 U	-	1.3 U	R	-
Acetone	µg/kg	-	-	-	-	-	-	-	17 U	-	17 U	20 U	-
Benzene	µg/kg	-	-	-	-	-	-	-	0.40 U	-	0.48 U	0.73 U	-
Carbon disulfide	µg/kg	-	-	-	-	-	-	-	0.26 U	-	0.31 U	0.48 U	-
Carbon tetrachloride	µg/kg	-	-	-	-	-	-	-	0.31 U	-	0.37 U	0.57 U	-
Chlorobenzene	µg/kg	-	-	-	-	-	-	-	0.41 U	-	0.49 U	R	-
Chloroethane	µg/kg	-	-	-	-	-	-	-	0.48 U	-	0.57 U	0.87 U	-
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-	-	0.29 U	-	0.34 U	0.52 U	-
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	0.35 U	-	0.42 U	0.64 U	-
Cyclohexane	µg/kg	-	-	-	-	-	-	-	0.26 U	-	0.31 U	0.48 U	-
Ethylbenzene	µg/kg	-	-	-	-	-	-	-	0.34 U	-	0.40 U	R	-
Isopropyl benzene	µg/kg	-	-	-	-	-	-	-	0.25 U	-	0.30 U	R	-
Methyl acetate	µg/kg	-	-	-	-	-	-	-	1.5 U	-	1.7 U	2.7 U	-
Methyl cyclohexane	µg/kg	-	-	-	-	-	-	-	0.29 U	-	0.34 U	0.52 U	-
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-	-	0.34 U	-	0.40 U	0.62 U	-
Methylene chloride	µg/kg	-	-	-	-	-	-	-	1.7 U	-	1.9 U	4.1 U	-
Styrene	µg/kg	-	-	-	-	-	-	-	0.34 U	-	0.40 U	R	-
Tetrachloroethene	µg/kg	-	-	-	-	-	-	-	0.47 U	-	0.55 U	**4.5 J**	-
Toluene	µg/kg	-	-	-	-	-	-	-	0.43 U	-	0.51 U	R	-
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	0.48 U	-	0.57 U	0.87 U	-
Trichloroethene	µg/kg	-	-	-	-	-	-	-	0.52 U	-	0.61 U	**22 J**	-
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-	-	0.30 U	-	0.36 U	0.55 U	-
Trifluorotrichloroethane (CFC-113)	µg/kg	-	-	-	-	-	-	-	0.62 U	-	0.73 U	1.1 U	-
Vinyl chloride	µg/kg	-	-	-	-	-	-	-	0.35 U	-	0.42 U	0.64 U	-
Xylenes (total)	µg/kg	-	-	-	-	-	-	-	0.50 U	-	0.60 U	R	-
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-	23 U	-	120 U	28 U	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-	9.5 U	-	48 U	12 U	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	-	0.58 U	-	**84**	**23**	-
2-Methylphenol	µg/kg	-	-	-	-	-	-	-	13 U	-	64 U	16 U	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	23 U	-	120 U	28 U	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-	21 U	-	110 U	25 U	-
Acenaphthene	µg/kg	-	-	-	-	-	-	-	0.88 U	-	**320**	**14**	-
Acenaphthylene	µg/kg	-	-	-	-	-	-	-	0.41 U	-	2.0 U	**7.0 J**	-
Acetophenone	µg/kg	-	-	-	-	-	-	-	11 U	-	54 U	**16 J**	-
Anthracene	µg/kg	-	-	-	-	-	-	-	**4.8 J**	-	**870**	**73**	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-	14 U	-	70 U	17 U	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	-	**31**	-	**2000**	**370**	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	-	**29**	-	**1000**	**310**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**
Sample ID:		**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	-	**37**	-	**2100**	**560**	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	-	**17**	-	**960**	**240**	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	-	**12**	-	**1000**	**260**	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-	4.1 U	-	**27 J**	**13 J**	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-	**29 J**	-	110 U	**94 J**	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-	12 U	-	58 U	14 U	-
Caprolactam	µg/kg	-	-	-	-	-	-	-	43 U	-	220 U	52 U	-
Carbazole	µg/kg	-	-	-	-	-	-	-	31 U	-	**420**	**47 J**	-
Chrysene	µg/kg	-	-	-	-	-	-	-	**29**	-	**2000**	**430**	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	-	0.77 U	-	3.9 U	**68**	-
Dibenzofuran	µg/kg	-	-	-	-	-	-	-	0.77 U	-	**240 J**	**40 J**	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-	19 U	-	**150 J**	23 U	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-	20 U	-	99 U	24 U	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-	17 U	-	88 U	21 U	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-	9.2 U	-	46 U	11 U	-
Fluoranthene	µg/kg	-	-	-	-	-	-	-	**45**	-	**5100**	**720**	-
Fluorene	µg/kg	-	-	-	-	-	-	-	0.62 U	-	**320**	**16**	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-	2.4 U	-	12 U	3.0 U	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-	6.5 U	-	33 U	7.9 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	-	**18**	-	**810**	**220**	-
Isophorone	µg/kg	-	-	-	-	-	-	-	15 U	-	76 U	18 U	-
Naphthalene	µg/kg	-	-	-	-	-	-	-	0.95 U	-	**180**	**29**	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-	24 U	-	120 U	30 U	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-	11 U	-	53 U	13 U	-
Phenanthrene	µg/kg	-	-	-	-	-	-	-	**15**	-	**3600**	**450**	-
Phenol	µg/kg	-	-	-	-	-	-	-	8.5 U	-	43 U	10 U	-
Pyrene	µg/kg	-	-	-	-	-	-	-	**43**	-	**4100**	**550**	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	-	**5200 J**	-	**4700 J**	**7000 J**	-
Antimony	mg/kg	-	-	-	-	-	-	-	0.31 UJ	-	**7.1 J**	**9.2 J**	-
Arsenic	mg/kg	-	-	-	-	-	-	-	**5.9 J**	-	**9.5 J**	**19 J**	-
Barium	mg/kg	-	-	-	-	-	-	-	**67 J**	-	**150 J**	**1600 J**	-
Beryllium	mg/kg	-	-	-	-	-	-	-	**0.37**	-	**0.82**	**3.1**	-
Cadmium	mg/kg	-	-	-	-	-	-	-	**0.22 J**	-	**1.7 J**	**8.8 J**	-
Calcium	mg/kg	-	-	-	-	-	-	-	**73000 J**	-	**64000 J**	**43000 J**	-
Chromium	mg/kg	-	-	-	-	-	-	-	**8.3 J**	-	**10 J**	**62 J**	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	**4.1 J**	-	**4.9 J**	**38 J**	-
Copper	mg/kg	-	-	-	-	-	-	-	**8.1 J**	-	**7100**	**870 J**	-
Iron	mg/kg	-	-	-	-	-	-	-	**12000 J**	-	**9900 J**	**24000 J**	-
Lead	mg/kg	-	-	-	-	-	-	-	**7.8 J**	-	**130 J**	**1100**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	**28000**	-	**21000**	**13000**	-
Manganese	mg/kg	-	-	-	-	-	-	-	**420 J**	-	**330 J**	**550 J**	-
Mercury	mg/kg	-	-	-	-	-	-	-	0.020 U	-	**0.053 J**	**0.44**	-
Nickel	mg/kg	-	-	-	-	-	-	-	**9.6 J**	-	**29 J**	**94 J**	-
Potassium	mg/kg	-	-	-	-	-	-	-	**600 J**	-	**490 J**	**1100 J**	-
Selenium	mg/kg	-	-	-	-	-	-	-	0.55 UJ	-	0.94 UJ	**2.8 J**	-
Silver	mg/kg	-	-	-	-	-	-	-	0.026 UJ	-	**1.1 J**	**2.2 J**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**
Sample ID:		**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	-	-	-	-	100 U	-	120 U	**440**	-
Thallium	mg/kg	-	-	-	-	-	-	-	**0.14 J**	-	**0.19 J**	**0.35 J**	-
Vanadium	mg/kg	-	-	-	-	-	-	-	**15 J**	-	**16 J**	**31 J**	-
Zinc	mg/kg	-	-	-	-	-	-	-	**35 J**	-	**520 J**	**2000 J**	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-	18 U	-	18 U	23 U	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-	22 U	-	23 U	29 U	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-	19 U	-	19 U	24 U	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-	16 U	-	**41 J**	20 U	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-	20 U	-	20 U	**34 J**	-
Pesticides													
4,4'-DDD	µg/kg	-	-	-	-	-	-	-	3.9 U	-	**8.6 NJ**	4.6 U	-
4,4'-DDE	µg/kg	-	-	-	-	-	-	-	1.4 U	-	2.8 U	1.7 U	-
4,4'-DDT	µg/kg	-	-	-	-	-	-	-	1.6 U	-	3.2 U	2.0 U	-
alpha-BHC	µg/kg	-	-	-	-	-	-	-	1.9 U	-	3.7 U	2.2 U	-
alpha-Chlordane	µg/kg	-	-	-	-	-	-	-	4.4 U	-	8.7 U	5.3 U	-
beta-BHC	µg/kg	-	-	-	-	-	-	-	4.6 U	-	9.0 U	5.4 U	-
delta-BHC	µg/kg	-	-	-	-	-	-	-	1.5 U	-	3.0 U	1.8 U	-
Dieldrin	µg/kg	-	-	-	-	-	-	-	1.1 U	-	2.1 U	1.3 U	-
Endosulfan I	µg/kg	-	-	-	-	-	-	-	1.5 U	-	3.0 U	1.8 U	-
Endosulfan II	µg/kg	-	-	-	-	-	-	-	2.1 U	-	4.1 U	2.5 U	-
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	-	1.4 U	-	2.8 U	1.7 U	-
Endrin	µg/kg	-	-	-	-	-	-	-	1.6 U	-	3.2 U	2.0 U	-
Endrin aldehyde	µg/kg	-	-	-	-	-	-	-	2.1 U	-	**5.1 J**	2.5 U	-
Endrin ketone	µg/kg	-	-	-	-	-	-	-	1.3 U	-	2.5 U	1.5 U	-
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	-	3.4 U	-	6.7 U	4.0 U	-
gamma-Chlordane	µg/kg	-	-	-	-	-	-	-	1.8 U	-	3.5 U	2.1 U	-
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	-	2.8 U	-	5.5 U	3.4 U	-
Methoxychlor	µg/kg	-	-	-	-	-	-	-	**2.0 J**	-	**8.1 NJ**	**5.0 NJ**	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	16 U	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	0.77 U	-	7.9 U	**56**	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	**23**	-	**35**	**340**	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	0.86 U	-	**11**	**250**	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	1.8 U	-	**9.4**	**110**	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	**0.083 J**	-	**0.80 J**	**12**	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**0.27 J**	-	**2.3 J**	**170**	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**0.11 J**	-	**0.38 J**	**8.9**	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**0.46 J**	-	**1.1 J**	**53 J**	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**0.20 J**	-	**2.0 J**	**17**	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	0.10 U	-	0.12 U	0.98 U	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**0.35 J**	-	**1.1 J**	**25**	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	0.032 U	-	**0.87 J**	**36**	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	0.037 U	-	1.2 U	**10 J**	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**0.19 J**	-	**0.90 J**	**75**	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	**0.15 J**	-	**1.2 J**	**89**	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	**0.24 J**	-	**1.5 J**	**57**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)	on-site (EU17)
Sample Location:		**SS-129**	**SS-174-AS**	**SS-175-AS**	**SS-176-AS**	**SS-177-AS**	**SS-178-AS**	**TP-8**	**TP-8**	**TP-9**	**TP-9**	**TP-10**	**TP-10**
Sample ID:		**SS-38443-122018-JC-129**	**SS-38443-122018-JC-174**	**SS-38443-112718-JC-175**	**SS-38443-112718-JC-176**	**SS-38443-122018-JC-177**	**SS-38443-122018-JC-178**	**TP-8**	**S-38443-110917-BW-040**	**TP-9**	**S-38443-110917-BW-038**	**S-38443-110917-BW-036**	**TP-10**
Sample Date:		**12/20/2018**	**12/20/2018**	**11/27/2018**	**11/27/2018**	**12/20/2018**	**12/20/2018**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**	**11/9/2017**
Sample Depth:		**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0.33-0.83 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4-6 ft BGS**	**14-15 ft BGS**	**0-2 ft BGS**	**2-4 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	**0.078 J**	-	**0.10 J**	**4.0**	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	**1.7 J**	-	**23 J**	**320 J**	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	**3.8 J**	-	**21 J**	**220 J**	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	**8.2 J**	-	**19 J**	**620 J**	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	**3.2 J**	-	**14 J**	**260 J**	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	**17 J**	-	**27 J**	**1000 J**	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	**1.9 J**	-	**430 J**	**230 J**	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	**19 J**	-	**49 J**	**1900 J**	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	**0.63 J**	-	**6.5 J**	**230 J**	-
Asbestos													
Chrysotile asbestos	%	-	-	-	0.25 <	-	-	-	-	-	-	-	1 <
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	0.50 U	-	0.53 U	0.64 U	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-1**	**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
1,1,2-Trichloroethane	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
1,1-Dichloroethane	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
1,1-Dichloroethene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
1,2,4-Trichlorobenzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	R	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
1,2-Dichlorobenzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	R	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
1,2-Dichloroethane	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
1,3-Dichlorobenzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	R	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
1,4-Dichlorobenzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	R	**1.2 J**	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	18 U	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U	19 U	19 U	21 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	18 U	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U	19 U	19 U	21 U
Acetone	µg/kg	18 U	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U	19 U	19 U	21 U
Benzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Carbon disulfide	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Carbon tetrachloride	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Chlorobenzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Chloroethane	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Chloroform (Trichloromethane)	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	**0.66 J**	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
cis-1,2-Dichloroethene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Cyclohexane	µg/kg	9.1 U	9.3 U	11 U	7.9 U	32 UJ	16 U	16 U	12 U	9.7 U	9.7 U	11 U
Ethylbenzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Isopropyl benzene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Methyl acetate	µg/kg	9.1 U	9.3 U	11 U	7.9 U	32 UJ	16 U	16 U	12 U	9.7 U	9.7 U	11 U
Methyl cyclohexane	µg/kg	9.1 U	9.3 U	11 U	**0.61 J**	32 UJ	16 U	16 U	12 U	9.7 U	9.7 U	11 U
Methyl tert butyl ether (MTBE)	µg/kg	18 U	19 U	23 U	16 U	64 UJ	32 U	32 U	25 U	19 U	19 U	21 U
Methylene chloride	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	**29 J**	7.9 U	9.3 U	6.1 U	4.8 U	4.8 U	5.3 U
Styrene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Tetrachloroethene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 UJ	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
Toluene	µg/kg	4.5 U	4.6 U	5.7 U	**0.23 J**	16 UJ	**0.57 J**	8.1 UJ	6.1 U	4.8 U	4.8 U	5.3 U
trans-1,2-Dichloroethene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Trichloroethene	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Trichlorofluoromethane (CFC-11)	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Trifluorotrichloroethane (CFC-113)	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Vinyl chloride	µg/kg	4.5 U	4.6 U	5.7 U	4.0 U	16 UJ	7.9 U	8.1 U	6.1 U	4.8 U	4.8 U	5.3 U
Xylenes (total)	µg/kg	9.1 U	**1.2 J**	11 U	**0.98 J**	32 UJ	16 UJ	16 UJ	12 U	9.7 U	9.7 U	11 U
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	160 U	160 U	170 U	160 U	670 U	160 U	1700 U	400 U	160 U	170 U	160 U
2-Chlorophenol	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
2-Methylnaphthalene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	**38**	**25**	75 U	**22**	7.0 U	7.5 U	7.2 U
2-Methylphenol	µg/kg	220 U	210 U	220 U	210 U	900 U	220 U	2200 U	540 U	210 U	220 U	220 U
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	110 U	100 U	110 U	110 U	450 U	110 U	1100 U	270 U	100 U	110 U	110 U
Acenaphthene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	30 U	7.2 U	**77**	**110**	7.0 U	7.5 U	7.2 U
Acenaphthylene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	30 U	**9.5**	**100**	18 U	7.0 U	7.5 U	7.2 U
Acetophenone	µg/kg	110 U	100 U	110 U	110 U	450 U	110 U	1100 U	270 U	100 U	110 U	110 U
Anthracene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	30 U	**22**	**620**	**470**	7.0 U	7.5 U	**8.3**
Benzaldehyde	µg/kg	110 U	100 U	110 U	110 U	450 U	110 U	1100 U	270 U	100 U	110 U	110 U
Benzo(a)anthracene	µg/kg	**15**	6.9 U	**18**	**22**	30 U	**85**	**1700**	**790**	**8.0**	**27**	**24**
Benzo(a)pyrene	µg/kg	**15**	6.9 U	**16**	**22**	30 U	**88**	**800**	**540**	**7.4**	**23**	**22**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-1**	**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**21**	**7.1**	**20**	**28**	**36**	**140**	**2900**	**730**	**12**	**61**	**33**
Benzo(g,h,i)perylene	µg/kg	**15**	6.9 U	**13**	**16**	30 U	**91**	**950**	**330**	7.0 U	**31**	**17**
Benzo(k)fluoranthene	µg/kg	7.2 U	6.9 U	7.5 U	**15**	30 U	**40**	**870**	**320**	7.0 U	**19**	**12**
Biphenyl (1,1-Biphenyl)	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	54 U	52 U	**25 J**	54 U	**160 J**	**76**	560 U	130 U	52 U	56 U	54 U
Butyl benzylphthalate (BBP)	µg/kg	54 U	52 U	56 U	54 U	**690**	**630**	**1100**	130 U	52 U	**240**	54 U
Caprolactam	µg/kg	360 U	340 U	370 U	350 U	1500 U	360 U	3700 U	890 U	340 U	370 U	360 U
Carbazole	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	**210 J**	**260**	52 U	56 U	54 U
Chrysene	µg/kg	**19**	6.9 U	**19**	**27**	**34**	**120**	**2800**	**760**	**8.1**	**47**	**26**
Dibenz(a,h)anthracene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	30 U	**15**	**260**	**68**	7.0 U	7.5 U	7.2 U
Dibenzofuran	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	**80 J**	52 U	56 U	54 U
Diethyl phthalate	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Dimethyl phthalate	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Di-n-butylphthalate (DBP)	µg/kg	54 U	52 U	56 U	54 U	220 U	**100**	**560**	130 U	52 U	**47 J**	54 U
Di-n-octyl phthalate (DnOP)	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Fluoranthene	µg/kg	**24**	**8.9**	**28**	**43**	**61**	**190**	**3000**	**2200**	**14**	**39**	**47**
Fluorene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	30 U	**7.3**	**90**	**140**	7.0 U	7.5 U	7.2 U
Hexachlorobenzene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	30 U	7.2 U	75 U	18 U	7.0 U	7.5 U	7.2 U
Hexachlorobutadiene	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Indeno(1,2,3-cd)pyrene	µg/kg	7.2 U	6.9 U	7.5 U	**14**	30 U	**54**	**800**	**270**	7.0 U	**24**	**15**
Isophorone	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Naphthalene	µg/kg	7.2 U	6.9 U	7.5 U	7.2 U	30 U	**19**	75 U	**43**	7.0 U	7.5 U	**13**
N-Nitrosodiphenylamine	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Pentachlorophenol	µg/kg	160 U	160 U	170 U	160 U	670 U	**110 J**	1700 U	400 U	160 U	170 U	160 U
Phenanthrene	µg/kg	**10**	6.9 U	**7.9**	**20**	**39**	**100**	**970**	**1900**	7.0 U	**10**	**38**
Phenol	µg/kg	54 U	52 U	56 U	54 U	220 U	54 U	560 U	130 U	52 U	56 U	54 U
Pyrene	µg/kg	**23**	**7.9**	**30**	**39**	**75**	**160**	**2400**	**1600**	**12**	**36**	**39**
Metals												
Aluminum	mg/kg	**9680**	**2920**	**8230**	**6660**	**5080**	**4190**	**6760**	**4300**	**3330**	**7310**	**2000**
Antimony	mg/kg	**1.0 J**	**12.8 J**	**0.51 J**	**1.6 J**	**4.0 J**	**1.5 J**	**199 J**	**8.2 J**	**1.1 J**	**1.8 J**	**0.85 J**
Arsenic	mg/kg	**8.4 J**	**14.1 J**	**5.1 J**	**7.3 J**	**22.7**	**11.9**	**57.3**	**17.3**	**5.5**	**8.3**	**3.5**
Barium	mg/kg	**148**	**342**	**61.5**	**84.2**	**535**	**224**	**1030**	**139**	**47.9**	**124**	**23.7**
Beryllium	mg/kg	**0.40 J**	0.52 U	**0.30 J**	**0.24 J**	**3.9 J**	**0.89 J**	**1.5 J**	**0.55 J**	**0.058 J**	**0.32 J**	0.54 U
Cadmium	mg/kg	**0.26 J**	**0.14 J**	**0.27 J**	**0.31 J**	**1.6**	**15.1**	**30.5**	**1.4**	**0.21 J**	**0.43 J**	**0.14 J**
Calcium	mg/kg	**35600**	**110000**	**22700**	**51600**	**11000 J**	**30300 J**	**39200 J**	**217000 J**	**95800 J**	**48900 J**	**108000 J**
Chromium	mg/kg	**12.8 J**	**5.6 J**	**13.4 J**	**11.2 J**	**11.0**	**19.5**	**74.0**	**12.9**	**7.5**	**11.2**	**4.6**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**5.2 J**	**2.1 J**	**6.9 J**	**4.6 J**	**8.1**	**4.8 J**	**14.7**	**4.8 J**	**3.6 J**	**5.7**	**2.5 J**
Copper	mg/kg	**14.2**	**19.1**	**13.8**	**15.4**	**186**	**181**	**43400**	**69.1**	**49.8**	**34.6**	**17.7**
Iron	mg/kg	**15600**	**6340**	**15300**	**14300**	**8230**	**10500**	**82400**	**8180**	**10100**	**15700**	**6470**
Lead	mg/kg	**12.9**	**5.4 J**	**15.3**	**11.4**	**116 J**	**426 J**	**3970 J**	**72.1 J**	**17.0 J**	**32.8 J**	**12.3 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**14200**	**38300**	**14700**	**22900**	**1750**	**13600**	**20800**	**9140**	**32900**	**22600**	**45700**
Manganese	mg/kg	**489**	**241**	**437**	**416**	**80.3 J**	**184 J**	**533 J**	**165 J**	**252 J**	**609 J**	**236 J**
Mercury	mg/kg	**0.021 J**	**0.33**	**0.043 J**	**0.016 J**	**0.16**	**0.17**	**0.84**	**0.089 J**	**0.017 J**	**0.052 J**	0.11 U
Nickel	mg/kg	**12.9**	**6.4**	**16.3**	**11.8**	**17.9**	**19.1**	**129**	**13.6**	**9.7**	**16.4**	**5.8**
Potassium	mg/kg	**876**	**641**	**733**	**874**	**800 J**	**503 J**	**1020 J**	**637 J**	**543 J**	**990 J**	**335 J**
Selenium	mg/kg	26.9 U	26.0 U	28.1 U	26.8 U	**1.7 J**	**0.85 J**	**20.1 J**	**0.90 J**	26.1 U	28.1 U	26.9 U
Silver	mg/kg	1.1 U	1.0 U	1.1 U	1.1 U	**0.34 J**	**0.22 J**	**3.1**	**0.37 J**	1.0 U	1.1 U	1.1 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-1**	**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	539 U	520 U	562 U	536 U	**135 J**	**99.1 J**	**592**	**112 J**	**81.1 J**	561 U	**125 J**
Thallium	mg/kg	**0.13**	0.10 U	0.11 U	**0.12**	**0.63**	**0.29**	5.6 U	**0.41**	0.11 U	0.20 U	0.11 U
Vanadium	mg/kg	**22.8**	**8.6**	**23.1**	**18.7**	**28.2 J**	**15.2 J**	**35.7 J**	**17.2 J**	**12.8 J**	**18.8 J**	**9.6 J**
Zinc	mg/kg	**54.2 J**	**23.0 J**	**54.8 J**	**48.1 J**	**165 J**	**230 J**	**3070 J**	**115 J**	**38.6 J**	**67.6 J**	**30.1 J**
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	36 U	34 U	37 U	35 U	36 U	36 U	37 U	35 U	34 UJ	37 UJ	36 UJ
Aroclor-1242 (PCB-1242)	µg/kg	36 U	34 U	37 U	35 U	36 U	36 U	37 U	35 U	34 UJ	37 UJ	36 UJ
Aroclor-1248 (PCB-1248)	µg/kg	36 U	34 U	37 U	35 U	36 U	36 U	37 U	35 U	34 UJ	37 UJ	36 UJ
Aroclor-1254 (PCB-1254)	µg/kg	36 U	34 U	37 U	35 U	36 U	36 U	37 U	**52**	34 UJ	37 UJ	36 UJ
Aroclor-1260 (PCB-1260)	µg/kg	36 U	34 U	37 U	35 U	**280**	**230**	**520 J**	35 U	34 UJ	**23 J**	36 UJ
Pesticides												
4,4'-DDD	µg/kg	18 U	18 U	9.6 U	9.1 U	37 UJ	92 U	190 U	91 U	18 UJ	38 U	18 UJ
4,4'-DDE	µg/kg	18 U	18 U	9.6 U	9.1 U	**10 J**	**40 J**	**51 J**	**24 J**	18 U	38 U	18 U
4,4'-DDT	µg/kg	18 U	18 U	9.6 U	9.1 U	37 UJ	**36 J**	**820**	**43 J**	18 UJ	**22 J**	18 UJ
alpha-BHC	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
alpha-Chlordane	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
beta-BHC	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
delta-BHC	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Dieldrin	µg/kg	18 U	18 U	9.6 U	9.1 U	**20 J**	92 U	**65 J**	91 U	18 U	38 U	18 U
Endosulfan I	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Endosulfan II	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Endosulfan sulfate	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Endrin	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Endrin aldehyde	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Endrin ketone	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	**89 J**	91 U	18 U	38 U	18 U
gamma-BHC (lindane)	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
gamma-Chlordane	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Heptachlor epoxide	µg/kg	18 U	18 U	9.6 U	9.1 U	37 U	92 U	190 U	91 U	18 U	38 U	18 U
Methoxychlor	µg/kg	36 U	34 U	19 U	18 U	72 UJ	180 U	370 U	180 U	34 UJ	74 U	36 UJ
Herbicides												
2,4,5-TP (Silvex)	µg/kg	22 U	21 U	22 U	21 U	**4.6 J**	22 U	22 U	22 U	21 U	22 U	22 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-1**	**TT-1**	**TT-2**	**TT-2**	**TT-3**	**TT-3**	**TT-4**	**TT-4**	**TT-4**	**TT-4**	**TT-4**
Sample ID:		**S-38443-092608-KMV-018**	**S-38443-092608-KMV-019**	**S-38443-092608-KMV-020**	**S-38443-092608-KMV-021**	**S-38443-092908-KMV-022**	**S-38443-092908-KMV-023**	**S-38443-092908-KMV-024**	**S-38443-092908-KMV-025**	**S-38443-092908-KMV-026**	**S-38443-092908-KMV-027**	**S-38443-092908-KMV-028**
Sample Date:		**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/26/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**	**9/29/2008**
Sample Depth:		**8 ft BGS**	**15 ft BGS**	**9 ft BGS**	**13.5 ft BGS**	**5 ft BGS**	**10 ft BGS**	**3 ft BGS**	**5 ft BGS**	**9 ft BGS**	**12 ft BGS**	**20 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.54 U	0.52 U	0.56 U	0.54 U	**0.46 J**	**0.37 J**	**0.90**	**2.1**	0.52 U	0.56 U	**0.45 J**
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**92.8**	**96.1**	**89.0**	**93.3**	**92.2**	**92.6**	**88.9**	**93.0**	**95.9**	**89.1**	**93.0**

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
					Duplicate							
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	**2.7 J**	5.2 U	-	290 UJ	5.4 U	-
1,1,2-Trichloroethane	µg/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,1-Dichloroethane	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,1-Dichloroethene	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,2,4-Trichlorobenzene	µg/kg	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
1,2-Dichlorobenzene	µg/kg	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
1,2-Dichloroethane	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
1,3-Dichlorobenzene	µg/kg	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
1,4-Dichlorobenzene	µg/kg	6.4 U	9.2 UJ	9.2 UJ	7.7 UJ	5.3 U	6.4 UJ	5.2 U	-	290 UJ	5.4 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	25 U	37 U	37 U	31 U	21 U	26 U	21 U	-	1200 UJ	22 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	25 U	37 U	37 U	31 U	21 U	26 U	21 U	-	1200 UJ	22 U	-
Acetone	µg/kg	25 U	37 U	37 U	31 U	21 U	26 U	21 U	-	1200 UJ	22 U	-
Benzene	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	**1.0 J**	5.2 U	-	290 UJ	5.4 U	-
Carbon disulfide	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Carbon tetrachloride	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Chlorobenzene	µg/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Chloroethane	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Chloroform (Trichloromethane)	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
cis-1,2-Dichloroethene	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	**0.62 J**	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Cyclohexane	µg/kg	13 U	18 U	18 U	15 U	11 U	13 U	10 U	-	580 UJ	11 U	-
Ethylbenzene	µg/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Isopropyl benzene	µg/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Methyl acetate	µg/kg	13 U	18 U	18 U	15 U	11 U	13 U	10 U	-	580 UJ	11 U	-
Methyl cyclohexane	µg/kg	13 U	18 U	18 U	15 U	**0.82 J**	13 U	**0.83 J**	-	580 UJ	11 U	-
Methyl tert butyl ether (MTBE)	µg/kg	25 U	37 U	37 U	31 U	21 U	26 U	21 U	-	1200 UJ	22 U	-
Methylene chloride	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Styrene	µg/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	5.3 U	6.4 UJ	5.2 UJ	-	290 UJ	5.4 UJ	-
Tetrachloroethene	µg/kg	6.4 U	**4.5 J**	**20 J**	**1.9 J**	5.3 U	**1.6 J**	5.2 U	-	**2500 J**	**57**	-
Toluene	µg/kg	6.4 U	9.2 U	9.2 UJ	7.7 U	**0.61 J**	**1.6 J**	**0.41 J**	-	**24 J**	5.4 U	-
trans-1,2-Dichloroethene	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Trichloroethene	µg/kg	**1.0 J**	**4.9 J**	**9.7**	**3.3 J**	**1.7 J**	**29**	5.2 U	-	**60 J**	5.4 U	-
Trichlorofluoromethane (CFC-11)	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Trifluorotrichloroethane (CFC-113)	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Vinyl chloride	µg/kg	6.4 U	9.2 U	9.2 U	7.7 U	5.3 U	6.4 U	5.2 U	-	290 UJ	5.4 U	-
Xylenes (total)	µg/kg	13 U	18 U	18 UJ	15 U	11 U	**2.0 J**	**1.4 J**	-	580 UJ	**1.4 J**	-
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	1600 U	4000 U	2100 U	3300 U	170 U	160 U	160 U	200 U	-	180 U	-
2-Chlorophenol	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
2-Methylnaphthalene	µg/kg	**81**	180 U	**210**	**170**	7.4 U	7.1 U	7.0 U	**16**	-	8.0 U	-
2-Methylphenol	µg/kg	2100 U	5300 U	2800 U	4500 U	220 U	210 UJ	210 UJ	260 U	-	240 UJ	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	1100 U	2600 U	1400 U	2200 U	110 U	110 U	110 U	130 U	-	120 U	-
Acenaphthene	µg/kg	**140**	180 U	**1500**	**1400**	7.4 U	7.1 U	7.0 U	**12**	-	8.0 U	-
Acenaphthylene	µg/kg	**180**	180 U	92 U	150 U	7.4 U	7.1 U	7.0 U	**120**	-	8.0 U	-
Acetophenone	µg/kg	1100 U	2600 U	1400 U	2200 U	110 U	110 U	110 U	130 U	-	120 U	-
Anthracene	µg/kg	**800**	180 U	**3300**	**3200**	7.4 U	7.1 U	**9.8**	**110**	-	**20**	-
Benzaldehyde	µg/kg	1100 U	2600 U	1400 U	2200 U	110 U	110 U	110 U	130 U	-	120 U	-
Benzo(a)anthracene	µg/kg	**6300**	**280**	**7100**	**6300**	**8.0**	**48**	**21**	**730**	-	**57**	-
Benzo(a)pyrene	µg/kg	**6000**	**270**	**4400**	**4400**	**7.7**	**58**	**18**	**660**	-	**51**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
					Duplicate							
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**8700**	**390**	**6000**	**5800**	**11**	**78**	**20**	**950**	-	**59**	-
Benzo(g,h,i)perylene	µg/kg	**3600**	**240**	**1800**	**1900**	7.4 U	**44**	**11**	**420**	-	**28**	-
Benzo(k)fluoranthene	µg/kg	**2900**	180 U	**2800**	**2600**	7.4 U	**36**	**9.7**	**370**	-	**27**	-
Biphenyl (1,1-Biphenyl)	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Butyl benzylphthalate (BBP)	µg/kg	**310 J**	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Caprolactam	µg/kg	3500 U	8700 U	4600 U	7400 U	370 U	350 U	350 U	430 U	-	390 U	-
Carbazole	µg/kg	530 U	1300 U	**1700**	**1500**	56 U	53 U	53 U	**69**	-	60 U	-
Chrysene	µg/kg	**5700**	**240**	**6200**	**5900**	7.4 U	**60**	**19**	**600**	-	**53**	-
Dibenz(a,h)anthracene	µg/kg	**1200**	180 U	**590**	**600**	7.4 U	7.1 U	7.0 U	**130**	-	8.0 U	-
Dibenzofuran	µg/kg	530 U	1300 U	**890**	**770 J**	56 U	53 U	53 U	66 U	-	60 U	-
Diethyl phthalate	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Dimethyl phthalate	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Di-n-butylphthalate (DBP)	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	**85**	-	60 U	-
Di-n-octyl phthalate (DnOP)	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Fluoranthene	µg/kg	**10000**	**320**	**16000**	**15000**	**13**	**75**	**43**	**1100**	-	**99**	-
Fluorene	µg/kg	**94**	180 U	**1500**	**1300**	7.4 U	7.1 U	7.0 U	**20**	-	8.0 U	-
Hexachlorobenzene	µg/kg	70 U	180 U	92 U	150 U	7.4 U	7.1 U	7.0 U	8.8 U	-	8.0 U	-
Hexachlorobutadiene	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	**3500**	**220**	**2000**	**2000**	7.4 U	**37**	7.0 U	**390**	-	**27**	-
Isophorone	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Naphthalene	µg/kg	70 U	180 U	**380**	**310**	7.4 U	7.1 U	7.0 U	**27**	-	8.0 U	-
N-Nitrosodiphenylamine	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Pentachlorophenol	µg/kg	1600 U	4000 U	2100 U	3300 U	170 U	160 U	160 U	200 U	-	180 U	-
Phenanthrene	µg/kg	**1900**	180 U	**13000**	**12000**	7.4 U	**29**	**31**	**250**	-	**33**	-
Phenol	µg/kg	530 U	1300 U	690 U	1100 U	56 U	53 U	53 U	66 U	-	60 U	-
Pyrene	µg/kg	**9200**	**290**	**13000**	**12000**	**12**	**58**	**35**	**710**	-	**83**	-
Metals												
Aluminum	mg/kg	**2640**	**9700**	**5340**	**5760**	**1200**	**7420**	**2720**	**14800**	-	**4960**	-
Antimony	mg/kg	**29.1 J**	**669 J**	**13.5 J**	**26.7 J**	**1.3 J**	**5.2 J**	6.3 UJ	**17.9 J**	-	7.2 UJ	-
Arsenic	mg/kg	**8.6**	**29.7**	**31.7**	**25.1**	**7.5**	**7.6**	**4.0**	**29.3**	-	**5.1**	-
Barium	mg/kg	**159**	**423**	**254**	**276**	**17.9 J**	**1310**	**29.5**	**4370**	-	**94.1**	-
Beryllium	mg/kg	**0.27 J**	**0.36 J**	**4.0 J**	**2.8**	**0.094 J**	**0.30 J**	0.53 U	**0.62 J**	-	**0.24 J**	-
Cadmium	mg/kg	**2.6**	**34.2**	**0.86 J**	**3.3 J**	**0.11 J**	**46.1 J**	**0.39 J**	**39.1 J**	-	**0.33 J**	-
Calcium	mg/kg	**120000 J**	**7780 J**	**19100 J**	**32500 J**	**139000 J**	**49000**	**119000**	**52700**	-	**56800**	-
Chromium	mg/kg	**20.2**	**138**	**18.1**	**20.8**	**3.2**	**93.8 J**	**6.0 J**	**93.4 J**	-	**7.7 J**	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**4.7 J**	**22.5**	**12.4**	**9.5**	**2.0 J**	**16.9**	**2.5 J**	**28.9**	-	**3.8 J**	-
Copper	mg/kg	**2360**	**10400**	**114**	**270**	**15.2**	**947 J**	**93.6 J**	**1000 J**	-	**23.2 J**	-
Iron	mg/kg	**14300**	**121000**	**8570**	**11400**	**7600**	**27700**	**8770**	**135000**	-	**11300**	-
Lead	mg/kg	**484 J**	**14100 J**	**82.3 J**	**178 J**	**6.4 J**	**971**	**10.2 J**	**3480**	-	**8.0 J**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**58700**	**14000**	**6240**	**10400 J**	**84800**	**17100**	**48300**	**6120**	-	**19600**	-
Manganese	mg/kg	**220 J**	**1490 J**	**155 J**	**224**	**183 J**	**479 J**	**183 J**	**997 J**	-	**386 J**	-
Mercury	mg/kg	**0.49**	**0.69**	**0.15**	**0.22**	0.11 U	**0.088 J**	0.11 U	**2.2**	-	**0.022 J**	-
Nickel	mg/kg	**56.8**	**475**	**30.2**	**40.2**	**6.8**	**34.4 J**	**8.0 J**	**377 J**	-	**9.2 J**	-
Potassium	mg/kg	**541 J**	**1850 J**	**852 J**	**799**	**277 J**	**1150**	**613**	**2150**	-	**484 J**	-
Selenium	mg/kg	**0.66 J**	331 U	**0.83 J**	**0.82 J**	27.8 U	26.6 U	26.3 U	164 U	-	29.9 U	-
Silver	mg/kg	**0.50 J**	**5.5**	**0.37 J**	**0.42 J**	1.1 U	**0.45 J**	1.1 U	**2.9**	-	1.2 U	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
					Duplicate							
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	**242 J**	**3110**	**136 J**	**194 J**	**194 J**	**500 J**	**129 J**	**1430**	-	597 U	-
Thallium	mg/kg	0.13 U	26.4 U	**1.4**	0.56 U	0.11 U	**0.17**	0.13 U	0.13 U	-	0.12 U	-
Vanadium	mg/kg	**12.1 J**	**51.8 J**	**29.3 J**	**25.4**	**5.0 J**	**20.1**	**10.1**	**21.7 J**	-	**12.8**	-
Zinc	mg/kg	**640 J**	**21900 J**	**165 J**	**440**	**22.8 J**	**922**	**42.7**	**6970**	-	**35.8**	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	35 U	44 U	36 U	37 U	37 UJ	1800 U	35 U	43 U	-	39 U	38 U
Aroclor-1242 (PCB-1242)	µg/kg	35 U	44 U	36 U	37 U	37 UJ	1800 U	35 U	43 U	-	39 U	38 U
Aroclor-1248 (PCB-1248)	µg/kg	35 U	44 U	36 U	37 U	37 UJ	**8100**	56 U	43 U	-	39 U	38 U
Aroclor-1254 (PCB-1254)	µg/kg	**230**	**510**	**170**	**160**	37 UJ	1800 U	35 U	**130**	-	39 UJ	38 U
Aroclor-1260 (PCB-1260)	µg/kg	35 U	44 U	36 U	37 U	37 UJ	**1300 J**	35 U	43 U	-	39 UJ	38 U
Pesticides												
4,4'-DDD	µg/kg	180 UJ	110 UJ	94 U	190 U	9.4 UJ	36 U	1.8 U	45 U	-	10 U	-
4,4'-DDE	µg/kg	**52 J**	110 U	94 U	190 U	9.4 U	**49**	1.8 U	**15 J**	-	10 U	-
4,4'-DDT	µg/kg	180 UJ	110 UJ	**47 J**	190 U	9.4 UJ	36 UJ	1.8 UJ	45 U	-	10 UJ	-
alpha-BHC	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
alpha-Chlordane	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
beta-BHC	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
delta-BHC	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Dieldrin	µg/kg	180 U	110 U	94 U	190 U	9.4 U	**31 J**	1.8 U	45 U	-	10 U	-
Endosulfan I	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endosulfan II	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endosulfan sulfate	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endrin	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endrin aldehyde	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Endrin ketone	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
gamma-BHC (lindane)	µg/kg	180 U	110 U	94 U	190 U	9.4 U	**18 J**	1.8 U	45 U	-	10 U	-
gamma-Chlordane	µg/kg	180 U	110 U	94 U	190 U	9.4 U	**30 J**	1.8 U	45 U	-	10 U	-
Heptachlor epoxide	µg/kg	180 U	110 U	94 U	190 U	9.4 U	36 U	1.8 U	45 U	-	10 U	-
Methoxychlor	µg/kg	350 UJ	220 UJ	180 U	370 U	18 UJ	70 U	3.5 U	87 U	-	20 U	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	21 U	26 U	22 U	22 U	22 U	21 U	21 U	26 U	-	24 U	-
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**	**on-site (EU17)**
Sample Location:		**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-5**	**TT-19**	**TT-19**	**TT-20**	**TT-20**	**TT-20**	**TT-20**
Sample ID:		**S-38443-093008-KMV-029**	**S-38443-093008-KMV-030**	**S-38443-093008-KMV-031**	**S-38443-093008-KMV-031-D**	**S-38443-093008-KMV-032**	**S-38443-100708-KMV-059**	**S-38443-100708-KMV-060**	**S-38443-100708-KMV-065**	**S-38443-100708-KMV-065-D**	**S-38443-100708-KMV-064**	**S-38443-100808-KMV-071**
Sample Date:		**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**9/30/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/7/2008**	**10/8/2008**
Sample Depth:		**3 ft BGS**	**7 ft BGS**	**14 ft BGS**	**14 ft BGS**	**17 ft BGS**	**7 ft BGS**	**9 ft BGS**	**7 ft BGS**	**7 ft BGS**	**15 ft BGS**	**-**
					Duplicate							
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**0.31 J**	**0.79 J**	0.55 U	0.56 U	0.56 U	**4.1**	0.53 U	**0.83**	-	0.60 U	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**95.0**	**75.6**	**90.5**	**89.7**	**90.0**	**94.0**	**95.0**	**76.2**	**81.5**	**83.7**	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU19)**
Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**	**SS-105**	**SS-179-AS**	**SS-180-AS**	**BH75-13**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**	**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**	**S-38443-062513-JT-045**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**6/25/2013**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS Duplicate**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	-	12 U	12 U	R	0.85 U	0.87 U	1.5 U	2.1 UJ	-	-	-	970 U
1,1,2-Trichloroethane	µg/kg	-	12 U	12 U	R	1.2 U	1.2 U	R	R	-	-	-	970 U
1,1-Dichloroethane	µg/kg	-	12 U	12 U	R	0.72 U	0.74 U	1.3 U	1.8 UJ	-	-	-	**560 J**
1,1-Dichloroethene	µg/kg	-	12 U	12 U	R	0.93 U	0.96 U	1.7 U	2.3 UJ	-	-	-	970 U
1,2,4-Trichlorobenzene	µg/kg	-	410 U	410 U	R	R	0.61 U	R	R	-	-	-	970 U
1,2-Dichlorobenzene	µg/kg	-	410 U	410 U	R	R	1.2 U	R	R	-	-	-	970 U
1,2-Dichloroethane	µg/kg	-	12 U	12 U	R	0.80 U	0.82 U	1.4 U	2.0 UJ	-	-	-	970 U
1,2-Dichloroethene (total)	µg/kg	5 U	12 U	12 U	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	12 U	12 U	R	0.88 U	0.90 U	1.6 U	2.2 UJ	-	-	-	970 U
1,3-Dichlorobenzene	µg/kg	-	410 U	410 U	**1.9 J**	R	0.87 U	R	R	-	-	-	970 U
1,4-Dichlorobenzene	µg/kg	-	410 U	410 U	R	R	0.94 U	R	R	-	-	-	970 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	10 U	12 U	12 U	R	3.7 U	**5.2 J**	**7.5 J**	**37 J**	-	-	-	3900 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	10 U	12 U	12 U	R	3.8 U	3.9 U	R	R	-	-	-	3900 U
Acetone	µg/kg	5 U	12 U	**3 J**	R	22 U	22 U	39 U	53 UJ	-	-	-	6300 U
Benzene	µg/kg	-	12 U	12 U	R	0.72 U	0.74 U	1.3 U	1.8 UJ	-	-	-	**200 J**
Carbon disulfide	µg/kg	-	12 U	12 U	R	1.2 U	1.2 U	2.2 U	2.9 UJ	-	-	-	970 U
Carbon tetrachloride	µg/kg	-	12 U	12 U	R	3.4 U	3.5 U	6.1 U	8.2 UJ	-	-	-	970 U
Chlorobenzene	µg/kg	-	12 U	12 U	R	0.95 U	0.97 U	R	R	-	-	-	**630 J**
Chloroethane	µg/kg	-	12 U	12 U	R	1.3 U	1.3 U	2.3 U	3.1 UJ	-	-	-	970 UJ
Chloroform (Trichloromethane)	µg/kg	-	12 U	12 U	R	0.82 U	0.84 U	1.5 U	2.0 UJ	-	-	-	970 U
cis-1,2-Dichloroethene	µg/kg	-	-	-	R	0.67 U	0.69 U	1.2 U	1.6 UJ	-	-	-	970 U
Cyclohexane	µg/kg	-	-	-	R	1.4 U	1.5 U	2.6 U	3.5 UJ	-	-	-	1900 U
Ethylbenzene	µg/kg	-	12 U	12 U	R	1.1 U	1.1 U	R	R	-	-	-	**1400**
Isopropyl benzene	µg/kg	-	-	-	R	0.86 U	0.88 U	R	R	-	-	-	**790 J**
Methyl acetate	µg/kg	-	-	-	R	3.5 U	3.6 U	6.4 U	8.6 UJ	-	-	-	**110 J**
Methyl cyclohexane	µg/kg	-	-	-	R	1.3 U	1.3 U	2.3 U	3.1 UJ	-	-	-	**530 J**
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	R	0.85 U	0.87 U	1.5 U	2.1 UJ	-	-	-	970 U
Methylene chloride	µg/kg	-	12 JBU	12 JBU	**55 J**	12 U	13 U	22 U	30 UJ	-	-	-	3100 U
Styrene	µg/kg	-	12 U	12 U	R	1.2 U	1.2 U	R	R	-	-	-	970 U
Tetrachloroethene	µg/kg	5 U	12 U	12 U	**3.7 J**	0.76 U	0.78 U	R	R	-	-	-	970 U
Toluene	µg/kg	5 U	**7 J**	**5 J**	R	0.80 U	0.82 U	R	R	-	-	-	**1500**
trans-1,2-Dichloroethene	µg/kg	-	-	-	R	0.48 U	0.49 U	0.87 U	1.2 UJ	-	-	-	970 U
Trichloroethene	µg/kg	5 U	12 U	12 U	**3.5 J**	0.65 U	0.67 U	1.2 U	1.6 UJ	-	-	-	**130 J**
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	R	1.1 U	1.1 U	2.0 U	2.7 UJ	-	-	-	970 U
Trifluorotrichloroethane (CFC-113)	µg/kg	-	-	-	R	1.3 U	1.4 U	2.4 U	3.2 UJ	-	-	-	970 U
Vinyl chloride	µg/kg	-	12 U	12 U	R	0.87 U	0.89 U	1.6 U	2.1 UJ	-	-	-	970 U
Xylenes (total)	µg/kg	5 U	12 U	12 U	R	1.6 U	1.7 U	R	R	-	-	-	**8100**
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	410 U	410 U	73 U	45 U	50 U	590 U	81 UJ	-	-	-	-
2-Chlorophenol	µg/kg	-	410 U	410 U	18 U	11 U	12 U	150 U	20 UJ	-	-	-	-
2-Methylnaphthalene	µg/kg	**250 J**	410 U	410 U	**1900**	**13 J**	**19**	**850**	**650 J**	-	-	-	-
2-Methylphenol	µg/kg	-	410 U	410 U	57 U	35 U	39 U	460 U	63 UJ	-	-	-	-
3&4-Methylphenol	µg/kg	-	-	-	**71 J**	32 U	36 U	430 U	59 UJ	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	79 U	48 U	54 U	640 U	88 UJ	-	-	-	-
Acenaphthene	µg/kg	330 U	410 U	410 U	**52**	3.2 U	3.6 U	**520**	**38 J**	-	-	-	-
Acenaphthylene	µg/kg	-	410 U	410 U	**380**	4.5 U	5.0 U	**1100**	8.2 UJ	-	-	-	-
Acetophenone	µg/kg	-	-	-	**150 J**	**38 J**	14 U	160 U	**62 J**	-	-	-	-
Anthracene	µg/kg	330 U	410 U	410 U	**250**	**5.8 J**	**4.9 J**	**2100**	**63 J**	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	**200**	26 U	29 U	340 U	**92 J**	-	-	-	-
Benzo(a)anthracene	µg/kg	**74 J**	410 U	410 U	**1500**	**11 J**	**11 J**	**6900**	**260 J**	-	-	-	-
Benzo(a)pyrene	µg/kg	**140 J**	410 U	410 U	**1500**	10 U	**14 J**	**6000**	**220 J**	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU18)	on-site (EU19)
Sample Location:		S2(EPA)	S03(OEPA)	S03(OEPA)	SS-26	SS-27	SS-28	SS-33	SS-34	SS-105	SS-179-AS	SS-180-AS	BH75-13
Sample ID:		S2	96-DV-03-S03	96-DV-03-D03	SS-38443-102618-JC-026	SS-38443-102618-JC-027	SS-38443-102618-JC-028	SS-38443-102618-JC-033	SS-38443-102618-JC-034	SS-38443-102618-JC-105	SS-38443-102618-JC-179	SS-38443-102618-JC-180	S-38443-062513-JT-045
Sample Date:		10/23/1990	7/9/1996	7/9/1996	10/26/2018	10/26/2018	10/26/2018	10/26/2018	10/26/2018	10/26/2018	10/26/2018	10/26/2018	6/25/2013
Sample Depth:		0-1 ft BGS	1.5-2 ft BGS	1.5-2 ft BGS Duplicate	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0.17-2.17 ft BGS	0-2 ft BGS	0-2 ft BGS	0-0.5 ft BGS	0.17-0.67 ft BGS	0-2 ft BGS
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	**280 J**	410 U	410 U	**2600**	**12 J**	**18 J**	**8500**	**330 J**	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	330 U	410 U	410 U	**1600**	7.9 U	**10 J**	**3900**	**220 J**	-	-	-	-
Benzo(k)fluoranthene	µg/kg	330 U	410 U	410 U	**800**	7.7 U	8.6 U	**2900**	**110 J**	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	**160**	19 U	21 U	250 U	**74 J**	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	330 U	410 U	410 U	**120 J**	57 U	**92**	760 U	**240 J**	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	330 U	410 U	**33 J**	40 U	24 U	27 U	330 U	45 UJ	-	-	-	-
Caprolactam	µg/kg	-	-	-	140 U	84 U	94 U	1100 U	150 UJ	-	-	-	-
Carbazole	µg/kg	-	410 U	410 U	**77 J**	21 U	24 U	**870**	**52 J**	-	-	-	-
Chrysene	µg/kg	**150 J**	**21 J**	**25 J**	**1700**	**17**	**14 J**	**6700**	**290 J**	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	330 U	410 U	410 U	**410**	7.7 U	8.6 U	**1200**	**58 J**	-	-	-	-
Dibenzofuran	µg/kg	330 U	410 U	410 U	**470**	14 U	16 U	**530 J**	**170 J**	-	-	-	-
Diethyl phthalate	µg/kg	-	410 U	410 U	57 U	35 U	39 U	460 U	63 UJ	-	-	-	-
Dimethyl phthalate	µg/kg	-	410 U	410 U	26 U	16 U	17 U	210 U	29 UJ	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	330 U	410 U	**27 J**	40 U	24 U	27 U	330 U	45 UJ	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	410 U	410 U	51 U	31 U	35 U	410 U	57 UJ	-	-	-	-
Fluoranthene	µg/kg	**140 J**	410 U	410 U	**2000**	**14 J**	**16 J**	**15000**	**500 J**	-	-	-	-
Fluorene	µg/kg	330 U	410 U	410 U	**75**	**4.4 J**	3.4 U	**860**	**37 J**	-	-	-	-
Hexachlorobenzene	µg/kg	-	410 U	410 U	5.2 U	3.2 U	3.6 U	42 U	5.8 UJ	-	-	-	-
Hexachlorobutadiene	µg/kg	-	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	330 U	410 U	410 U	**1300**	8.2 U	9.2 U	**3800**	**160 J**	-	-	-	-
Isophorone	µg/kg	-	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ	-	-	-	-
Naphthalene	µg/kg	**150**	410 U	410 U	**1400**	**20**	**25**	**700**	**420 J**	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	330 U	410 U	410 U	22 U	13 U	15 U	180 U	24 UJ	-	-	-	-
Pentachlorophenol	µg/kg	-	1000 U	1000 U	110 U	65 U	72 U	860 U	120 UJ	-	-	-	-
Phenanthrene	µg/kg	**200 J**	**33 J**	**34 J**	**1200**	**32**	**22**	**7900**	**590 J**	-	-	-	-
Phenol	µg/kg	-	410 U	410 U	**48 J**	8.9 U	10 U	120 U	**46 J**	-	-	-	-
Pyrene	µg/kg	**150 J**	410 U	410 U	**2300**	**14 J**	**22**	**12000**	**440 J**	-	-	-	-
Metals													
Aluminum	mg/kg	**3800**	**1910**	**1140**	**7500**	**1200**	**1500**	**6600**	**7600 J**	-	-	-	-
Antimony	mg/kg	2.4 U	0.74 U	0.90 U	**1.6 J**	**0.57 J**	**0.21 J**	**3.4 J**	**1.4 J**	-	-	-	-
Arsenic	mg/kg	**6.8**	**1.6 B**	1.2 U	**41**	**3.8**	**3.0**	**17**	**28 J**	-	-	-	-
Barium	mg/kg	**23.28**	**12.2 B**	**7.2 B**	**310**	**6.3**	**9.2**	**220**	**220 J**	-	-	-	-
Beryllium	mg/kg	1 U	0.25 U	0.30 U	**5.8**	**0.063 J**	**0.061 J**	**2.0**	**2.2 J**	-	-	-	-
Cadmium	mg/kg	1 U	**0.43 B**	0.30 U	**0.76**	**0.13 J**	**1.2**	**1.1**	**0.68 J**	-	-	-	-
Calcium	mg/kg	**13300**	**995 B**	**979 B**	**26000**	**590**	**6600**	**45000**	**14000 J**	-	-	-	-
Chromium	mg/kg	**16.9**	**17.6**	**8.5**	**22**	**43**	**31**	**17**	**52 J**	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	**21**	**42**	**31**	**17**	**52 J**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	**0.91 J**	**0.56 J**	0.30 U	0.36 U	2.5 UJ	-	-	-	-
Cobalt	mg/kg	10 U	**2.0 B**	**1.4 B**	**16**	**4.3**	**2.1**	**8.9**	**9.7 J**	-	-	-	-
Copper	mg/kg	**48.9 EJ**	**136**	**96.9**	**85**	**88**	**34**	**210**	**81 J**	-	-	-	-
Iron	mg/kg	**18000**	**24200**	**15900**	**9700**	**47000**	**27000**	**13000**	**17000 J**	-	-	-	-
Lead	mg/kg	**43**	**15.4**	**7.2**	**84**	**6.4**	**26**	**170**	**110 J**	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	**48**	**200**	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	**260**	**290**	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	**84**	**220**	-	-	-	-	-
Magnesium	mg/kg	**7790**	**565 B**	**560 B**	**13000**	**340**	**500**	**18000**	**6000 J**	-	-	-	-
Manganese	mg/kg	**344**	**427**	**265**	**120**	**510**	**1400**	**200**	**130 J**	-	-	-	-
Mercury	mg/kg	0.008 U	0.12 U	0.15 U	**0.097 J**	0.019 U	0.024 U	**0.32**	**0.40 J**	-	-	-	-
Nickel	mg/kg	**13.9**	**18.7**	**11.3 B**	**30**	**51**	**22**	**30**	**42 J**	-	-	-	-
Potassium	mg/kg	**308 B**	**126 B**	**86 B**	**1000**	**81 J**	**110 J**	**1200**	**1500 J**	-	-	-	-
Selenium	mg/kg	**1.2 BWJ**	0.99 U	1.2 U	**6.3**	**0.23 J**	**0.36 J**	**3.1**	**3.8 J**	-	-	-	-
Silver	mg/kg	2 U	0.25 U	0.30 U	**0.23 J**	**0.082 J**	**0.11 J**	**0.35**	**0.17 J**	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU19)**
Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**	**SS-105**	**SS-179-AS**	**SS-180-AS**	**BH75-13**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**	**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**	**S-38443-062513-JT-045**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**6/25/2013**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS Duplicate**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	**123 B**	**327 B**	**318 B**	**290 J**	**44 J**	**91 J**	**240 J**	**390 J**	-	-	-	-
Thallium	mg/kg	2 U	**2.1 B**	**1.3 B**	**2.4**	0.039 U	0.054 U	**0.89**	**1.0 J**	-	-	-	-
Vanadium	mg/kg	**7.3 B**	**1.2 B**	**0.62 B**	**60**	**2.7**	**2.0**	**27**	**29 J**	-	-	-	-
Zinc	mg/kg	**550**	**41.7**	**22.3**	**160**	**18**	**66**	**220**	**160 J**	-	-	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	41 U	41 U	42 U	25 U	28 U	34 U	47 UJ	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	41 U	41 U	34 U	21 U	23 U	28 U	39 UJ	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	**4200 X**	41 U	41 U	43 U	26 U	30 U	35 U	49 UJ	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	41 U	41 U	42 U	25 U	28 U	**130**	**240 J**	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	**2800 X**	41 U	41 U	**200**	24 U	27 U	32 U	45 UJ	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	-	4.1 U	4.1 U	27 U	16 U	1.8 U	110 U	3.0 UJ	-	-	-	-
4,4'-DDE	µg/kg	-	4.1 U	4.1 U	27 U	17 U	1.9 U	110 U	3.1 UJ	-	-	-	-
4,4'-DDT	µg/kg	-	4.1 U	4.1 U	20 U	12 U	1.4 U	83 U	2.3 UJ	-	-	-	-
alpha-BHC	µg/kg	-	2.1 U	2.1 U	16 U	10 U	1.1 U	67 U	1.9 UJ	-	-	-	-
alpha-Chlordane	µg/kg	-	2.1 U	2.1 U	27 U	17 U	1.8 U	110 U	3.1 UJ	-	-	-	-
beta-BHC	µg/kg	-	2.1 U	2.1 U	31 U	19 U	2.1 U	130 U	3.6 UJ	-	-	-	-
delta-BHC	µg/kg	-	2.1 U	2.1 U	31 U	19 U	100 U	120 U	70 UJ	-	-	-	-
Dieldrin	µg/kg	-	4.1 U	4.1 U	20 U	12 U	1.4 U	80 U	2.3 UJ	-	-	-	-
Endosulfan I	µg/kg	-	2.1 U	2.1 U	22 U	13 U	1.5 U	88 U	2.5 UJ	-	-	-	-
Endosulfan II	µg/kg	-	4.1 U	4.1 U	27 U	16 U	1.8 U	110 U	**4.0 J**	-	-	-	-
Endosulfan sulfate	µg/kg	-	4.1 U	4.1 U	23 U	14 U	79 U	94 U	53 UJ	-	-	-	-
Endrin	µg/kg	-	**2.3 PJ**	4.1 U	34 U	21 U	2.3 U	140 U	3.9 UJ	-	-	-	-
Endrin aldehyde	µg/kg	-	**6.6**	**6.6 P**	24 U	14 U	81 U	96 U	54 UJ	-	-	-	-
Endrin ketone	µg/kg	-	4.1 U	4.1 U	16 U	9.8 U	1.1 U	65 U	1.8 UJ	-	-	-	-
gamma-BHC (lindane)	µg/kg	-	2.1 U	2.1 U	32 U	20 U	2.2 U	130 U	3.7 UJ	-	-	-	-
gamma-Chlordane	µg/kg	-	2.1 U	**0.96 PJ**	22 U	14 U	1.5 U	90 U	2.5 UJ	-	-	-	-
Heptachlor epoxide	µg/kg	-	2.1 U	**0.49 PJ**	26 U	16 U	1.8 U	110 U	3.0 UJ	-	-	-	-
Methoxychlor	µg/kg	-	**1.8 PJ**	21 U	120 UJ	72 UJ	8.1 UJ	480 U	13 UJ	-	-	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	23 U	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	38 U	7.7 UJ	14 UJ	11 U	27 UJ	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	**120**	**53 J**	**41 J**	**6200 J**	**90 J**	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	**57**	2.3 U	8.3 U	7.8 U	9.6 UJ	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	**48**	**7.3**	**7.6**	**62**	**11 J**	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	0.63 U	0.31 U	**1.8 J**	0.32 U	1.6 UJ	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**7.5 J**	0.22 U	**4.9 J**	**1.2 J**	0.93 UJ	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	**11**	0.055 U	0.13 U	**0.81 J**	1.8 UJ	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**5.6 J**	0.23 U	**1.8 J**	**2.6 J**	0.83 UJ	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	**17 J**	0.061 U	**0.99 J**	**1.9 J**	1.8 UJ	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	0.65 U	0.31 U	0.47 U	0.24 U	1.2 UJ	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	**18 J**	0.053 U	**0.98 J**	**2.6 J**	1.6 UJ	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	**3.1 J**	0.12 U	0.26 U	0.14 U	0.36 UJ	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	**10 J**	0.15 U	0.12 U	0.18 U	0.92 UJ	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**4.2 J**	0.22 U	**1.9 J**	0.21 U	1.0 UJ	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	**3.9 J**	0.11 U	**2.9 J**	0.14 U	**1.3 J**	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	**1.8**	0.29 U	**1.3**	**1.0 J**	0.95 UJ	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU18)**	**on-site (EU19)**
Sample Location:		**S2(EPA)**	**S03(OEPA)**	**S03(OEPA)**	**SS-26**	**SS-27**	**SS-28**	**SS-33**	**SS-34**	**SS-105**	**SS-179-AS**	**SS-180-AS**	**BH75-13**
Sample ID:		**S2**	**96-DV-03-S03**	**96-DV-03-D03**	**SS-38443-102618-JC-026**	**SS-38443-102618-JC-027**	**SS-38443-102618-JC-028**	**SS-38443-102618-JC-033**	**SS-38443-102618-JC-034**	**SS-38443-102618-JC-105**	**SS-38443-102618-JC-179**	**SS-38443-102618-JC-180**	**S-38443-062513-JT-045**
Sample Date:		**10/23/1990**	**7/9/1996**	**7/9/1996**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**10/26/2018**	**6/25/2013**
Sample Depth:		**0-1 ft BGS**	**1.5-2 ft BGS**	**1.5-2 ft BGS Duplicate**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0.17-2.17 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0.17-0.67 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	0.62 U	0.39 U	0.42 U	0.38 U	1.0 UJ	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	**94 J**	**4.0 J**	**15 J**	**15 J**	**9.6 J**	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	**82 J**	**13 J**	**14 J**	**130 J**	**22 J**	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	**47 J**	**1.4 J**	**14 J**	**14 J**	**4.2 J**	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	**94 J**	**2.9 J**	**6.6 J**	**22 J**	1.8 UJ	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	**43 J**	0.12 U	**20 J**	**18 J**	**8.0 J**	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	**58 J**	**0.53 J**	**1.4 J**	**3.7 J**	0.92 UJ	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	**130 J**	0.29 U	**17 J**	**33 J**	**5.4 J**	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	**10 J**	0.39 U	0.42 U	**2.1 J**	1.0 UJ	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	0.25 <	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	0.19 U	0.22 U	**0.54 J**	0.23 U	0.24 U	**0.31 J**	**0.94 J**	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	**67000**	**1300**	**1900**	**50000**	**49000 J**	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	**32000**	**6900**	**5200**	**31000**	**29000 J**	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**	**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**
Sample ID:		**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**	**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**	**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS Duplicate**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
1,1,2-Trichloroethane	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	R	460 U	4.6 U	5.1 U	430 U	11 UJ
1,1-Dichloroethane	µg/kg	4.5 U	260 U	**1.3 J**	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	**17 J**
1,1-Dichloroethene	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
1,2,4-Trichlorobenzene	µg/kg	4.5 U	260 U	11 UJ	**130 J**	280 U	R	R	460 U	4.6 U	5.1 U	430 U	R
1,2-Dichlorobenzene	µg/kg	4.5 U	260 U	11 UJ	290 U	280 U	**6.9 J**	R	460 U	4.6 U	5.1 U	430 U	R
1,2-Dichloroethane	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
1,3-Dichlorobenzene	µg/kg	4.5 U	260 U	11 UJ	**180 J**	**23 J**	**1.7 J**	**4.0 J**	460 U	4.6 U	5.1 U	430 U	R
1,4-Dichlorobenzene	µg/kg	4.5 U	260 U	11 UJ	**2900**	280 U	**18 J**	R	460 U	4.6 U	5.1 U	430 U	R
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**3.8 J**	1000 U	45 U	1200 U	1100 U	**3.7 J**	**19 J**	1800 U	19 U	**12 J**	1700 U	43 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	**1.0 J**	**100 J**	45 U	1200 U	1100 U	17 U	**56 J**	1800 U	19 U	20 U	1700 U	43 UJ
Acetone	µg/kg	26 UJ	1400 U	61 UJ	1900 U	1100 U	27 U	210 UJ	2200 U	23 U	88 U	1700 U	43 UJ
Benzene	µg/kg	**0.78 J**	260 U	11 U	**320**	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Carbon disulfide	µg/kg	4.5 U	260 U	11 U	290 U	**18 J**	**1.4 J**	**2.9 J**	460 U	4.6 U	**3.2 J**	430 U	11 UJ
Carbon tetrachloride	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Chlorobenzene	µg/kg	**2.7 J**	260 U	11 U	**1400**	280 U	**56**	R	460 U	4.6 U	5.1 U	430 U	11 UJ
Chloroethane	µg/kg	4.5 UJ	260 UJ	**63 J**	290 UJ	280 UJ	4.3 U	14 UJ	460 UJ	4.6 UJ	5.1 UJ	430 U	**19 J**
Chloroform (Trichloromethane)	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
cis-1,2-Dichloroethene	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Cyclohexane	µg/kg	**0.38 J**	520 U	23 U	580 U	560 U	**1.5 J**	27 UJ	910 U	9.3 U	10 U	870 U	**4.8 J**
Ethylbenzene	µg/kg	**0.34 J**	**38 J**	11 U	**54 J**	**93 J**	**0.69 J**	R	**29 J**	4.6 U	5.1 U	430 U	11 UJ
Isopropyl benzene	µg/kg	4.5 U	**18 J**	11 U	**1000**	**88 J**	**0.71 J**	R	**210 J**	4.6 U	**0.27 J**	430 U	11 UJ
Methyl acetate	µg/kg	9.0 U	**68 J**	23 U	**230 J**	**190 J**	8.7 U	27 UJ	910 U	9.3 U	10 U	**56 J**	22 UJ
Methyl cyclohexane	µg/kg	**1.3 J**	520 U	23 U	**970**	**75 J**	**2.8 J**	**1.5 J**	910 U	**0.42 J**	10 U	870 U	**4.1 J**
Methyl tert butyl ether (MTBE)	µg/kg	4.5 U	260 U	**2.0 J**	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Methylene chloride	µg/kg	**14 J**	870 U	**33 J**	960 U	310 U	9.3 U	160 UJ	1300 U	9.6 U	19 U	750 U	34 UJ
Styrene	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	R	460 U	4.6 U	5.1 U	430 U	11 UJ
Tetrachloroethene	µg/kg	4.5 U	260 U	11 U	290 U	280 U	**1.2 J**	R	460 U	4.6 U	5.1 U	430 U	11 UJ
Toluene	µg/kg	**0.67 J**	**31 J**	11 U	**76 J**	**100 J**	**1.8 J**	R	**74 J**	4.6 U	5.1 U	430 U	11 UJ
trans-1,2-Dichloroethene	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Trichloroethene	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Trichlorofluoromethane (CFC-11)	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Trifluorotrichloroethane (CFC-113)	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	14 UJ	460 U	4.6 U	5.1 U	430 U	11 UJ
Vinyl chloride	µg/kg	4.5 U	260 U	11 U	290 U	280 U	4.3 U	**59 J**	460 U	4.6 U	5.1 U	430 U	**18 J**
Xylenes (total)	µg/kg	9.0 U	**130 J**	23 U	**280 J**	**200 J**	**1.9 J**	R	**120 J**	9.3 U	10 U	870 U	22 UJ
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Acetophenone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**BH75-13**	**BH76-13**	**BH76-13**	**BH77-13**	**BH79-13**	**BH79-13**	**BH82-13**	**BH85-13**	**BH85-13**	**BH86-13**	**BH87-13**	**BH87-13**
Sample ID:		**S-38443-062513-JT-046**	**S-38443-062513-JC-052**	**S-38443-062513-JC-053**	**S-38443-062513-JT-047**	**S-38443-062613-JC-056**	**S-38443-062613-JC-057**	**S-38443-062413-JC-039**	**S-38443-062513-JC-040**	**S-38443-062513-JC-051**	**S-38443-062413-JC-038**	**S-38443-062613-JC-058**	**S-38443-062613-JC-059**
Sample Date:		**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/25/2013**	**6/26/2013**	**6/26/2013**	**6/24/2013**	**6/25/2013**	**6/25/2013**	**6/24/2013**	**6/26/2013**	**6/26/2013**
Sample Depth:		**20-22 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**20-22 ft BGS**	**4-6 ft BGS**	**21-23 ft BGS**	**19-21 ft BGS**	**8-10 ft BGS**	**18-20 ft BGS**	**22.5-24.5 ft BGS**	**18-20 ft BGS**	**18-20 ft BGS Duplicate**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Caprolactam	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chrysene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fluorene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Isophorone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Naphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Phenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Barium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Copper	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Iron	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Silver	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		BH75-13	BH76-13	BH76-13	BH77-13	BH79-13	BH79-13	BH82-13	BH85-13	BH85-13	BH86-13	BH87-13	BH87-13
Sample ID:		S-38443-062513-JT-046	S-38443-062513-JC-052	S-38443-062513-JC-053	S-38443-062513-JT-047	S-38443-062613-JC-056	S-38443-062613-JC-057	S-38443-062413-JC-039	S-38443-062513-JC-040	S-38443-062513-JC-051	S-38443-062413-JC-038	S-38443-062613-JC-058	S-38443-062613-JC-059
Sample Date:		6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/24/2013	6/25/2013	6/25/2013	6/24/2013	6/26/2013	6/26/2013
Sample Depth:		20-22 ft BGS	8-10 ft BGS	18-20 ft BGS	20-22 ft BGS	4-6 ft BGS	21-23 ft BGS	19-21 ft BGS	8-10 ft BGS	18-20 ft BGS	22.5-24.5 ft BGS	18-20 ft BGS	18-20 ft BGS Duplicate
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Pesticides													
4,4'-DDD	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
beta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
delta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dieldrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		BH75-13	BH76-13	BH76-13	BH77-13	BH79-13	BH79-13	BH82-13	BH85-13	BH85-13	BH86-13	BH87-13	BH87-13
Sample ID:		S-38443-062513-JT-046	S-38443-062513-JC-052	S-38443-062513-JC-053	S-38443-062513-JT-047	S-38443-062613-JC-056	S-38443-062613-JC-057	S-38443-062413-JC-039	S-38443-062513-JC-040	S-38443-062513-JC-051	S-38443-062413-JC-038	S-38443-062613-JC-058	S-38443-062613-JC-059
Sample Date:		6/25/2013	6/25/2013	6/25/2013	6/25/2013	6/26/2013	6/26/2013	6/24/2013	6/25/2013	6/25/2013	6/24/2013	6/26/2013	6/26/2013
Sample Depth:		20-22 ft BGS	8-10 ft BGS	18-20 ft BGS	20-22 ft BGS	4-6 ft BGS	21-23 ft BGS	19-21 ft BGS	8-10 ft BGS	18-20 ft BGS	22.5-24.5 ft BGS	18-20 ft BGS	18-20 ft BGS Duplicate
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS Duplicate**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	12 U	**1500**	10 U	4.7 U	4.8 U	8.2 UJ	0.24 U	39 U	0.21 U	-	0.42 U	-
1,1,2-Trichloroethane	µg/kg	12 UJ	**45 J**	10 U	4.7 U	4.8 U	8.2 UJ	0.41 U	32 U	0.35 U	-	0.71 U	-
1,1-Dichloroethane	µg/kg	12 U	**720**	10 U	**0.77 J**	**5.6 J**	8.2 UJ	0.34 U	**67 J**	0.30 U	-	0.60 U	-
1,1-Dichloroethene	µg/kg	12 U	**79 J**	10 U	4.7 U	4.8 U	8.2 UJ	0.56 U	50 U	0.48 U	-	0.98 U	-
1,2,4-Trichlorobenzene	µg/kg	R	390 U	10 U	4.7 U	4.8 U	R	0.25 U	36 U	0.21 U	-	R	-
1,2-Dichlorobenzene	µg/kg	R	390 U	10 U	4.7 U	4.8 U	R	0.23 U	25 U	0.20 U	-	R	-
1,2-Dichloroethane	µg/kg	12 U	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.30 U	42 U	0.26 U	-	0.53 U	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	12 U	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.32 U	42 U	0.28 U	-	0.56 U	-
1,3-Dichlorobenzene	µg/kg	**0.89 J**	390 U	10 U	4.7 U	4.8 U	R	0.30 U	53 U	0.26 U	-	R	-
1,4-Dichlorobenzene	µg/kg	R	390 U	10 U	4.7 U	4.8 U	R	0.36 U	38 U	0.31 U	-	R	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	47 U	1600 U	**3.0 J**	19 U	19 U	33 UJ	11 U	**76 J**	**3.5 J**	-	**4.9 J**	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	47 UJ	1600 U	41 U	**0.52 J**	19 U	33 UJ	0.93 U	**240 J**	0.80 U	-	1.6 U	-
Acetone	µg/kg	92 U	1600 U	41 U	19 U	19 U	33 UJ	58 U	360 U	15 U	-	26 U	-
Benzene	µg/kg	12 U	390 U	10 U	**0.69 J**	**0.49 J**	8.2 UJ	0.33 U	**43 J**	**0.71 J**	-	0.58 U	-
Carbon disulfide	µg/kg	12 U	**24 J**	10 U	4.7 U	4.8 U	8.2 UJ	**2.0 J**	25 U	**2.9 J**	-	**0.41 J**	-
Carbon tetrachloride	µg/kg	12 U	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.26 U	38 U	0.22 U	-	0.46 U	-
Chlorobenzene	µg/kg	12 UJ	**750**	10 U	**0.66 J**	**15 J**	8.2 UJ	0.34 U	**2200**	0.30 U	-	0.60 U	-
Chloroethane	µg/kg	12 UJ	390 U	10 U	**2.3 J**	**1.4 J**	8.2 UJ	0.40 U	39 U	0.34 U	-	0.69 U	-
Chloroform (Trichloromethane)	µg/kg	12 U	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.24 U	34 U	0.21 U	-	0.42 U	-
cis-1,2-Dichloroethene	µg/kg	12 U	**1100**	10 U	4.7 U	4.8 U	8.2 UJ	0.29 U	**91 J**	0.25 U	-	0.51 U	-
Cyclohexane	µg/kg	24 U	780 U	21 U	**0.37 J**	**0.31 J**	16 UJ	0.22 U	42 U	**2.6 J**	-	0.38 U	-
Ethylbenzene	µg/kg	12 UJ	**310 J**	10 U	4.7 U	4.8 U	8.2 UJ	0.28 U	**51 J**	**1.9 J**	-	**0.80 J**	-
Isopropyl benzene	µg/kg	12 UJ	**57 J**	10 U	4.7 U	4.8 U	8.2 UJ	0.21 U	**110 J**	**0.89 J**	-	0.36 U	-
Methyl acetate	µg/kg	24 U	**300 J**	21 U	**2.1 J**	**2.8 J**	16 UJ	1.2 U	**2400**	1.0 U	-	2.1 U	-
Methyl cyclohexane	µg/kg	24 U	**130 J**	21 U	**0.39 J**	**0.35 J**	16 UJ	0.24 U	**240 J**	**2.0 J**	-	0.42 U	-
Methyl tert butyl ether (MTBE)	µg/kg	12 U	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.28 U	36 U	0.24 U	-	0.49 U	-
Methylene chloride	µg/kg	48 U	390 U	10 UJ	4.7 U	4.8 U	10 UJ	0.25 U	515 U	0.58 U	-	4.5 U	-
Styrene	µg/kg	12 UJ	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.28 U	14 U	0.24 U	-	0.49 U	-
Tetrachloroethene	µg/kg	12 UJ	**34 J**	10 U	4.7 U	4.8 U	**41 J**	0.39 U	**71 J**	0.33 U	-	0.67 U	-
Toluene	µg/kg	12 UJ	**150 J**	10 U	**0.41 J**	**0.69 J**	8.2 UJ	0.35 U	**120 J**	**1.8 J**	-	0.62 U	-
trans-1,2-Dichloroethene	µg/kg	12 U	**83 J**	10 U	4.7 U	4.8 U	8.2 UJ	0.40 U	49 U	0.34 U	-	0.69 U	-
Trichloroethene	µg/kg	12 U	**8400 J**	10 U	4.7 U	4.8 U	**3.9 J**	0.43 U	52 U	0.37 U	-	0.75 U	-
Trichlorofluoromethane (CFC-11)	µg/kg	12 U	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.25 U	47 U	0.21 U	-	0.44 U	-
Trifluorotrichloroethane (CFC-113)	µg/kg	12 U	390 U	10 U	4.7 U	4.8 U	8.2 UJ	0.51 U	32 U	0.44 U	-	0.89 U	-
Vinyl chloride	µg/kg	12 U	**41 J**	10 U	4.7 U	4.8 U	8.2 UJ	0.29 U	24 U	0.25 U	-	0.51 U	-
Xylenes (total)	µg/kg	24 UJ	**1300**	21 U	9.4 U	9.5 U	16 UJ	0.42 U	**190 J**	**15**	-	**2.5 J**	-
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	24 U	230 U	110 U	-	17000 U	-
2-Chlorophenol	µg/kg	-	-	-	-	-	-	9.8 U	96 U	46 U	-	7100 U	-
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	**110**	**350**	**940**	-	**29000**	-
2-Methylphenol	µg/kg	-	-	-	-	-	-	13 U	130 U	61 U	-	9500 U	-
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	24 U	230 U	**250 J**	-	17000 U	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	22 U	210 U	100 U	-	16000 U	-
Acenaphthene	µg/kg	-	-	-	-	-	-	**21**	**230**	**160**	-	**120000**	-
Acenaphthylene	µg/kg	-	-	-	-	-	-	**10**	**330**	1.9 U	-	**3100 J**	-
Acetophenone	µg/kg	-	-	-	-	-	-	11 U	110 U	**170 J**	-	8000 U	-
Anthracene	µg/kg	-	-	-	-	-	-	**35**	**950**	**94**	-	**200000**	-
Benzaldehyde	µg/kg	-	-	-	-	-	-	14 U	140 U	67 U	-	10000 U	-
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	**110**	**2100**	**59**	-	**390000**	-
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	**93**	**1600**	**21 J**	-	**340000**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS Duplicate**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	**150**	**2100**	**48**	-	**460000**	-
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	**82**	**840**	1.9 U	-	**210000**	-
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	**31**	**620**	3.8 U	-	**170000**	-
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	**13 J**	**64 J**	**230 J**	-	**11000 J**	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	**98**	**250 J**	220 U	-	16000 U	-
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	12 U	120 U	56 U	-	8700 U	-
Caprolactam	µg/kg	-	-	-	-	-	-	44 U	430 U	210 U	-	32000 U	-
Carbazole	µg/kg	-	-	-	-	-	-	32 U	**330 J**	150 U	-	**140000**	-
Chrysene	µg/kg	-	-	-	-	-	-	**150**	**1900**	**77**	-	**350000**	-
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	**28**	**270**	3.7 U	-	**66000**	-
Dibenzofuran	µg/kg	-	-	-	-	-	-	**39 J**	**300 J**	**85 J**	-	**71000**	-
Diethyl phthalate	µg/kg	-	-	-	-	-	-	30 U	190 U	89 U	-	14000 U	-
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	20 U	200 U	95 U	-	15000 U	-
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	18 U	180 U	84 U	-	13000 U	-
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	9.4 U	92 U	44 U	-	6800 U	-
Fluoranthene	µg/kg	-	-	-	-	-	-	**240**	**3900**	**190**	-	**840000**	-
Fluorene	µg/kg	-	-	-	-	-	-	**20**	**390**	**340**	-	**150000**	-
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	2.5 U	25 U	12 U	-	1800 U	-
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	6.7 U	66 U	31 U	-	4900 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	**61**	**760**	1.9 U	-	**190000**	-
Isophorone	µg/kg	-	-	-	-	-	-	16 U	150 U	72 U	-	11000 U	-
Naphthalene	µg/kg	-	-	-	-	-	-	**75**	**320**	**1500**	-	**110000**	-
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	25 U	250 U	120 U	-	18000 U	-
Pentachlorophenol	µg/kg	-	-	-	-	-	-	11 U	110 U	51 U	-	7900 U	-
Phenanthrene	µg/kg	-	-	-	-	-	-	**180**	**3300**	**750**	-	**690000**	-
Phenol	µg/kg	-	-	-	-	-	-	8.7 U	85 U	**54 J**	-	6300 U	-
Pyrene	µg/kg	-	-	-	-	-	-	**200**	**3500**	**190**	-	**670000**	-
Metals													
Aluminum	mg/kg	-	-	-	-	-	-	**2800**	**1200**	**2500 J**	-	**16000**	-
Antimony	mg/kg	-	-	-	-	-	-	**0.68**	**0.55**	**0.55 J**	-	**44**	-
Arsenic	mg/kg	-	-	-	-	-	-	**5.8**	**5.5**	**4.4**	-	**25**	-
Barium	mg/kg	-	-	-	-	-	-	**310**	**120**	**15**	-	**1700**	-
Beryllium	mg/kg	-	-	-	-	-	-	**0.44**	**0.37**	**0.097 J**	-	**1.3**	-
Cadmium	mg/kg	-	-	-	-	-	-	**1.1**	**0.16 J**	**2.2**	-	**13**	-
Calcium	mg/kg	-	-	-	-	-	-	**86000**	**11000**	**12000**	-	**46000**	-
Chromium	mg/kg	-	-	-	-	-	-	**13**	**7.4**	**71**	**310**	**79**	**58**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	**13**	**7.4**	**71**	**300**	**79**	**58**
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	0.28 U	0.28 U	0.27 U	**5.0**	1.7 U	1.5 U
Cobalt	mg/kg	-	-	-	-	-	-	**4.3**	**3.7**	**3.4**	-	**14**	-
Copper	mg/kg	-	-	-	-	-	-	**41**	**61**	**110 J**	-	**530**	-
Iron	mg/kg	-	-	-	-	-	-	**12000**	**3100**	**44000**	-	**31000**	-
Lead	mg/kg	-	-	-	-	-	-	**570**	**28**	**38**	-	**1900**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	**20000**	**3200**	**5600**	-	**11000**	-
Manganese	mg/kg	-	-	-	-	-	-	**250 J**	**40**	**1900**	-	**410 J**	-
Mercury	mg/kg	-	-	-	-	-	-	**0.028 J**	**0.037 J**	0.020 U	-	**0.28 J**	-
Nickel	mg/kg	-	-	-	-	-	-	**15**	**7.1**	**47**	-	**72**	-
Potassium	mg/kg	-	-	-	-	-	-	**350**	**240**	**180 J**	-	**1700**	-
Selenium	mg/kg	-	-	-	-	-	-	**1.4**	**0.98 J**	**0.22 J**	-	**2.0**	-
Silver	mg/kg	-	-	-	-	-	-	**0.076 J**	**0.11 J**	**0.23**	-	**3.7**	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS Duplicate**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	-	-	-	-	-	-	**120 J**	**70 J**	**400**	-	**1000 J**	-
Thallium	mg/kg	-	-	-	-	-	-	**0.16 J**	**0.12 J**	0.051 U	-	**0.35 J**	-
Vanadium	mg/kg	-	-	-	-	-	-	**9.6**	**6.6**	**5.0**	-	**30**	-
Zinc	mg/kg	-	-	-	-	-	-	**14000**	**16**	**140 J**	-	**2800**	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	27 U	27 U	26 U	-	31000 U	-
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	22 U	22 U	22 U	-	**930000**	-
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	28 U	28 U	27 U	-	32000 U	-
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	**110**	**380**	26 U	-	31000 U	-
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	26 U	26 U	25 U	-	29000 U	-
Pesticides													
4,4'-DDD	µg/kg	-	-	-	-	-	-	3.8 U	19 U	3.7 U	-	2300 U	-
4,4'-DDE	µg/kg	-	-	-	-	-	-	1.4 U	6.9 U	1.4 U	-	820 U	-
4,4'-DDT	µg/kg	-	-	-	-	-	-	1.6 U	8.0 U	1.6 U	-	960 U	-
alpha-BHC	µg/kg	-	-	-	-	-	-	1.9 U	9.2 U	1.8 U	-	1100 U	-
alpha-Chlordane	µg/kg	-	-	-	-	-	-	4.4 U	22 U	4.3 U	-	2600 U	-
beta-BHC	µg/kg	-	-	-	-	-	-	4.5 U	22 U	4.4 U	-	2700 U	-
delta-BHC	µg/kg	-	-	-	-	-	-	30 U	30 U	1.5 U	-	890 U	-
Dieldrin	µg/kg	-	-	-	-	-	-	1.0 U	5.2 U	1.0 U	-	620 U	-
Endosulfan I	µg/kg	-	-	-	-	-	-	1.5 U	7.4 U	1.5 U	-	890 U	-
Endosulfan II	µg/kg	-	-	-	-	-	-	2.1 U	10 U	2.0 U	-	1200 U	-
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	28 U	27 U	1.4 U	-	820 U	-
Endrin	µg/kg	-	-	-	-	-	-	1.6 U	8.0 UJ	1.6 U	-	960 U	-
Endrin aldehyde	µg/kg	-	-	-	-	-	-	42 UJ	41 UJ	20 U	-	1200 UJ	-
Endrin ketone	µg/kg	-	-	-	-	-	-	1.3 U	6.3 U	1.2 U	-	750 U	-
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	3.4 U	17 U	3.3 U	-	**3400 J**	-
gamma-Chlordane	µg/kg	-	-	-	-	-	-	1.7 U	8.6 U	1.7 U	-	1000 U	-
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	2.8 U	14 U	2.7 U	-	1600 U	-
Methoxychlor	µg/kg	-	-	-	-	-	-	**3.1 NJ**	6.9 U	**2.9 J**	-	820 U	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	**16**	**12**	**4.9 J**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	**230**	**440**	**46**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**7.7**	**6.5**	**5.2 J**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**25**	**20**	**7.5**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**0.52 J**	**0.89 J**	0.20 U	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**1.7 J**	**3.2 J**	**1.9 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	0.064 U	0.070 U	**0.18 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**1.0 J**	**1.0 J**	**0.83 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**1.1 J**	0.069 U	**1.3 J**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	0.11 U	0.29 U	0.24 U	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**1.0 J**	0.065 U	**0.91 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**1.9 J**	**0.58 J**	**0.43 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	1.5 U	1.3 U	**0.41 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**0.64 J**	**0.91 J**	**0.85 J**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**2.1 J**	**1.1 J**	**1.2 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**8.5**	**1.7 J**	**0.79 J**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**BH88-13**	**BH90-13**	**BH91-13**	**BH92-13**	**BH92-13**	**BH93-13**	**BH94-17**	**BH95-17**	**BH96-18**	**BH164-17**	**BH164-17**	**BH165-17**
Sample ID:		**S-38443-062413-JC-037**	**S-38443-070813-JL-088**	**S-38443-062713-JC-072**	**S-38443-070913-JC-089**	**S-38443-070913-JC-090**	**S-38443-062813-JC-073**	**S-38443-122017-JC-016**	**S-38443-121917-JC-015**	**S-38443-010318-JC-025**	**S-38443-122017-JC-017**	**S-38443-122017-JC-018**	**S-38443-122017-JC-019**
Sample Date:		**6/24/2013**	**7/8/2013**	**6/27/2013**	**7/9/2013**	**7/9/2013**	**6/28/2013**	**12/20/2017**	**12/19/2017**	**1/3/2018**	**12/20/2017**	**12/20/2017**	**12/20/2017**
Sample Depth:		**18-20 ft BGS**	**26.5-28.5 ft BGS**	**23-25 ft BGS**	**18.8-20.8 ft BGS**	**18.8-20.8 ft BGS Duplicate**	**13-15 ft BGS**	**13-14.8 ft BGS**	**5-7 ft BGS**	**13-15 ft BGS**	**13-15 ft BGS**	**18-20 ft BGS**	**13-15 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**0.24 J**	**0.48 J**	**0.14 J**	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	**21 J**	**20 J**	**12 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	**46 J**	**43 J**	**15 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	**17 J**	**21 J**	**9.5 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	**10 J**	**8.8 J**	**9.1 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	**26 J**	**31 J**	**10 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	**230 J**	**630 J**	**74 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	**71 J**	**47 J**	**16 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	**2.9 J**	**3.3 J**	**1.5 J**	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	1 <	-	1 <	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	**0.14 J**	**0.084 J**	**0.14 J**	-	**120**	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS Duplicate**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	54 U	-	0.77 U	-	-	-	36 U	37 U	0.20 U	53 UJ	0.25 U	41 U
1,1,2-Trichloroethane	µg/kg	45 U	-	R	-	-	-	29 U	31 U	0.35 U	43 UJ	0.43 U	33 U
1,1-Dichloroethane	µg/kg	60 U	-	1.1 U	-	-	-	39 U	41 U	0.29 U	58 UJ	0.36 U	45 U
1,1-Dichloroethene	µg/kg	70 UJ	-	1.8 U	-	-	-	46 UJ	48 UJ	0.48 U	68 UJ	0.60 U	52 U
1,2,4-Trichlorobenzene	µg/kg	50 U	-	R	-	-	-	33 U	35 U	0.21 U	49 UJ	**0.98 J**	38 U
1,2-Dichlorobenzene	µg/kg	35 U	-	R	-	-	-	23 U	24 U	0.20 U	34 UJ	0.24 U	**200 J**
1,2-Dichloroethane	µg/kg	58 U	-	0.98 U	-	-	-	38 U	40 U	0.26 U	56 UJ	0.32 U	43 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	58 U	-	1.0 U	-	-	-	38 U	40 U	0.27 U	56 UJ	0.34 U	43 U
1,3-Dichlorobenzene	µg/kg	74 U	-	R	-	-	-	48 U	51 U	0.26 U	71 UJ	0.32 U	55 U
1,4-Dichlorobenzene	µg/kg	**130 J**	-	R	-	-	-	34 U	36 U	0.31 U	51 UJ	0.39 U	**2900**
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	97 U	-	R	-	-	-	64 U	66 U	1.1 U	94 UJ	**6.3 J**	**270 J**
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	78 U	-	**9.9 J**	-	-	-	51 U	53 U	0.79 U	75 UJ	0.98 U	58 U
Acetone	µg/kg	276 U	-	**78 J**	-	-	-	120 U	130 U	2.7 U	180 UJ	**15 J**	**880 J**
Benzene	µg/kg	47 U	-	1.1 U	-	-	-	31 U	32 U	0.28 U	45 UJ	0.35 U	35 U
Carbon disulfide	µg/kg	**150 J**	-	**1.4 J**	-	-	-	23 U	24 U	0.19 U	34 UJ	0.23 U	26 U
Carbon tetrachloride	µg/kg	52 U	-	0.84 U	-	-	-	34 U	36 U	0.22 U	51 UJ	0.28 U	39 U
Chlorobenzene	µg/kg	**2400**	-	R	-	-	-	130 U	132 U	0.29 U	**2000 J**	**5.4 J**	**1900**
Chloroethane	µg/kg	54 U	-	1.3 U	-	-	-	36 U	37 U	0.34 U	53 UJ	0.42 U	41 U
Chloroform (Trichloromethane)	µg/kg	47 U	-	0.77 U	-	-	-	31 U	32 U	0.20 U	45 UJ	0.25 U	35 U
cis-1,2-Dichloroethene	µg/kg	68 UJ	-	0.94 U	-	-	-	45 U	47 U	0.25 U	66 UJ	0.31 U	51 U
Cyclohexane	µg/kg	58 U	-	0.71 U	-	-	-	38 UJ	40 UJ	0.19 U	56 UJ	0.23 U	43 U
Ethylbenzene	µg/kg	68 U	-	**0.95 J**	-	-	-	45 U	47 U	0.24 U	66 UJ	0.30 U	51 U
Isopropyl benzene	µg/kg	66 U	-	R	-	-	-	43 U	45 U	0.18 U	64 UJ	**0.65 J**	49 U
Methyl acetate	µg/kg	**460 J**	-	3.9 U	-	-	-	95 U	100 U	1.0 U	140 UJ	1.3 U	**260 J**
Methyl cyclohexane	µg/kg	72 U	-	0.77 U	-	-	-	47 UJ	49 UJ	0.20 U	69 UJ	0.25 U	54 U
Methyl tert butyl ether (MTBE)	µg/kg	50 U	-	0.91 U	-	-	-	33 U	35 U	0.24 U	49 UJ	0.30 U	38 U
Methylene chloride	µg/kg	150 U	-	0.81 U	-	-	-	**89 J**	**110 J**	0.21 U	150 UJ	1.7 U	240 U
Styrene	µg/kg	19 U	-	R	-	-	-	13 U	13 U	0.24 U	19 UJ	0.30 U	14 U
Tetrachloroethene	µg/kg	41 U	-	R	-	-	-	**1100**	**650**	0.33 U	39 UJ	0.41 U	30 U
Toluene	µg/kg	70 U	-	**24 J**	-	-	-	56 U	32 U	0.30 U	45 UJ	**0.56 J**	**46 J**
trans-1,2-Dichloroethene	µg/kg	68 U	-	1.3 U	-	-	-	45 U	47 U	0.34 U	66 UJ	0.42 U	51 U
Trichloroethene	µg/kg	72 U	-	1.4 U	-	-	-	**130 J**	49 U	**0.81 J**	69 UJ	0.45 U	54 U
Trichlorofluoromethane (CFC-11)	µg/kg	66 U	-	0.81 U	-	-	-	43 U	45 U	0.21 U	64 UJ	0.27 U	49 U
Trifluorotrichloroethane (CFC-113)	µg/kg	45 UJ	-	1.6 U	-	-	-	29 UJ	31 UJ	0.43 U	43 UJ	0.54 U	33 U
Vinyl chloride	µg/kg	33 U	-	0.94 U	-	-	-	22 U	23 U	0.25 U	32 UJ	0.31 U	25 U
Xylenes (total)	µg/kg	**66 J**	-	R	-	-	-	36 U	37 U	0.35 U	53 UJ	0.44 U	**160 J**
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	9500 U	-	37 U	-	-	-	23 U	95 U	48 U	-	-	-
2-Chlorophenol	µg/kg	3900 U	-	15 U	-	-	-	9.6 U	39 U	12 U	-	-	-
2-Methylnaphthalene	µg/kg	240 U	-	R	-	-	-	**39 J**	**130 J**	**7.2 J**	-	-	-
2-Methylphenol	µg/kg	5200 U	-	20 U	-	-	-	13 U	52 U	37 U	-	-	-
3&4-Methylphenol	µg/kg	9500 U	-	37 U	-	-	-	23 U	95 U	35 U	-	-	-
3,3'-Dichlorobenzidine	µg/kg	8600 U	-	R	-	-	-	21 U	86 U	52 U	-	-	-
Acenaphthene	µg/kg	360 U	-	R	-	-	-	**18 J**	**420 J**	**5.8 J**	-	-	-
Acenaphthylene	µg/kg	170 U	-	R	-	-	-	**24**	**31 J**	0.42 U	-	-	-
Acetophenone	µg/kg	4400 U	-	R	-	-	-	11 U	44 U	13 U	-	-	-
Anthracene	µg/kg	370 U	-	R	-	-	-	**42 J**	**580 J**	**11**	-	-	-
Benzaldehyde	µg/kg	5700 U	-	R	-	-	-	14 U	57 U	28 U	-	-	-
Benzo(a)anthracene	µg/kg	300 U	-	R	-	-	-	**200 J**	**1800 J**	**28**	-	-	-
Benzo(a)pyrene	µg/kg	310 U	-	R	-	-	-	**200 J**	**1300 J**	**23**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS Duplicate**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	280 U	-	R	-	-	-	**290 J**	**1900 J**	**30**	-	-	-
Benzo(g,h,i)perylene	µg/kg	170 U	-	R	-	-	-	**190 J**	**670 J**	**18**	-	-	-
Benzo(k)fluoranthene	µg/kg	320 U	-	R	-	-	-	**110 J**	**680 J**	**15**	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	1700 U	-	R	-	-	-	**25 J**	**37 J**	20 U	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	**560000**	-	**68 J**	-	-	-	**65 J**	**1300 J**	61 U	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	**45000**	-	R	-	-	-	12 U	48 U	26 U	-	-	-
Caprolactam	µg/kg	18000 U	-	R	-	-	-	43 U	180 U	90 U	-	-	-
Carbazole	µg/kg	13000 U	-	R	-	-	-	32 U	**490**	23 U	-	-	-
Chrysene	µg/kg	520 U	-	R	-	-	-	**220 J**	**1800 J**	**30**	-	-	-
Dibenz(a,h)anthracene	µg/kg	310 U	-	R	-	-	-	**50 J**	**250 J**	0.79 U	-	-	-
Dibenzofuran	µg/kg	310 U	-	R	-	-	-	**38 J**	**160 J**	16 U	-	-	-
Diethyl phthalate	µg/kg	**9700 J**	-	R	-	-	-	39 U	76 U	37 U	-	-	-
Dimethyl phthalate	µg/kg	8100 U	-	R	-	-	-	20 U	81 U	17 U	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	7200 U	-	R	-	-	-	**29 J**	71 U	26 U	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	3800 U	-	R	-	-	-	9.3 U	38 U	34 U	-	-	-
Fluoranthene	µg/kg	260 U	-	R	-	-	-	**380 J**	**4300 J**	**62**	-	-	-
Fluorene	µg/kg	250 U	-	R	-	-	-	**11 J**	**270 J**	**5.8 J**	-	-	-
Hexachlorobenzene	µg/kg	1000 U	-	R	-	-	-	2.5 U	10 U	2.5 U	-	-	-
Hexachlorobutadiene	µg/kg	2700 U	-	R	-	-	-	6.6 U	27 U	14 U	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	170 U	-	R	-	-	-	**140 J**	**630 J**	**10**	-	-	-
Isophorone	µg/kg	6200 U	-	R	-	-	-	15 U	62 U	14 U	-	-	-
Naphthalene	µg/kg	390 U	-	R	-	-	-	**39 J**	**150 J**	**8.9**	-	-	-
N-Nitrosodiphenylamine	µg/kg	10000 U	-	R	-	-	-	25 U	100 U	14 U	-	-	-
Pentachlorophenol	µg/kg	4300 U	-	17 U	-	-	-	11 U	43 U	70 U	-	-	-
Phenanthrene	µg/kg	350 U	-	R	-	-	-	**190 J**	**2600 J**	**49**	-	-	-
Phenol	µg/kg	3500 U	-	14 U	-	-	-	**25 J**	35 U	9.6 U	-	-	-
Pyrene	µg/kg	210 U	-	R	-	-	-	**310 J**	**3400 J**	**51**	-	-	-
Metals													
Aluminum	mg/kg	**11000**	-	**3600**	-	-	-	**11000**	**8300**	**12000**	-	-	-
Antimony	mg/kg	**4.1 J**	-	**2.5**	-	-	-	**16**	**41**	**1.9 J**	-	-	-
Arsenic	mg/kg	**26**	-	**60**	-	-	-	**26**	**26**	**11**	-	-	-
Barium	mg/kg	**570**	-	**380**	-	-	-	**1300**	**860**	**110 J**	-	-	-
Beryllium	mg/kg	**1.4**	-	**4.0**	-	-	-	**0.72**	**0.78**	**0.72**	-	-	-
Cadmium	mg/kg	**3.2**	-	**0.26 J**	-	-	-	**18**	**21**	**0.43**	-	-	-
Calcium	mg/kg	**63000**	-	**1300**	-	-	-	**40000**	**31000**	**11000**	-	-	-
Chromium	mg/kg	**57**	**52**	**14**	**79**	**6.2**	**24**	**290**	**110**	**14**	-	-	-
Chromium III (trivalent)	mg/kg	**57**	**52**	**14**	**79**	**6.2**	**24**	**270**	**110**	**14**	-	-	-
Chromium VI (hexavalent)	mg/kg	1.7 U	0.28 U	0.44 U	2.8 U	0.34 U	2.8 U	**16**	**6.1 J**	1.4 U	-	-	-
Cobalt	mg/kg	**12**	-	**11**	-	-	-	**53**	**21**	**7.2**	-	-	-
Copper	mg/kg	**400 J**	-	**62**	-	-	-	**3600**	**1400**	**19**	-	-	-
Iron	mg/kg	**52000**	-	**8500**	-	-	-	**81000**	**57000**	**20000**	-	-	-
Lead	mg/kg	**500 J**	-	**37**	-	-	-	**4900**	**3500**	**28 J**	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**19000**	-	**330**	-	-	-	**17000**	**10000**	**7200**	-	-	-
Manganese	mg/kg	**580**	-	**12**	-	-	-	**760**	**800**	**620**	-	-	-
Mercury	mg/kg	**0.57**	-	**0.090 J**	-	-	-	**0.70**	**1.5**	**0.032 J**	-	-	-
Nickel	mg/kg	**45**	-	**20**	-	-	-	**180**	**93**	**16**	-	-	-
Potassium	mg/kg	**910**	-	**490**	-	-	-	**1600**	**1100**	**1100**	-	-	-
Selenium	mg/kg	**2.4**	-	**11**	-	-	-	**2.4**	**2.7**	**0.43 J**	-	-	-
Silver	mg/kg	**1.6**	-	**0.15 J**	-	-	-	**3.7**	**3.1**	**0.041 J**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS Duplicate**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	**370**	-	**350**	-	-	-	**600**	**450**	**65 J**	-	-	-
Thallium	mg/kg	**0.76**	-	**1.8**	-	-	-	**0.41**	**0.44**	**0.19 J**	-	-	-
Vanadium	mg/kg	**26**	-	**51**	-	-	-	**170**	**98**	**27**	-	-	-
Zinc	mg/kg	**700**	-	**23**	-	-	-	**1600**	**1300**	**65**	-	-	-
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	160 U	-	42 U	-	-	-	27 U	28 U	27 U	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	**3700**	-	35 U	-	-	-	22 U	23 U	23 U	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	170 U	-	44 U	-	-	-	28 U	29 U	28 U	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	160 U	-	42 U	-	-	-	**150 J**	**71 J**	27 U	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	**1400**	-	40 U	-	-	-	26 U	27 U	26 U	-	-	-
Pesticides													
4,4'-DDD	µg/kg	22 U	-	6.1 U	-	-	-	**6.8 NJ**	38 U	1.8 U	-	-	-
4,4'-DDE	µg/kg	**8.1 NJ**	-	2.2 U	-	-	-	**3.8 NJ**	14 U	1.8 U	-	-	-
4,4'-DDT	µg/kg	9.2 U	-	2.6 U	-	-	-	**16**	16 U	1.4 U	-	-	-
alpha-BHC	µg/kg	11 U	-	2.9 U	-	-	-	1.9 U	19 U	1.1 U	-	-	-
alpha-Chlordane	µg/kg	25 U	-	7.0 U	-	-	-	4.5 U	44 U	1.8 U	-	-	-
beta-BHC	µg/kg	26 U	-	7.2 U	-	-	-	4.6 U	45 U	2.1 U	-	-	-
delta-BHC	µg/kg	860 U	-	48 U	-	-	-	1.5 U	15 U	2.0 U	-	-	-
Dieldrin	µg/kg	5.9 U	-	1.7 U	-	-	-	1.1 U	10 U	1.3 U	-	-	-
Endosulfan I	µg/kg	8.6 U	-	2.4 U	-	-	-	**1.5 J**	15 U	1.4 U	-	-	-
Endosulfan II	µg/kg	12 U	-	3.3 U	-	-	-	2.1 U	21 U	1.8 U	-	-	-
Endosulfan sulfate	µg/kg	790 U	-	44 U	-	-	-	1.4 U	14 U	1.5 U	-	-	-
Endrin	µg/kg	9.2 U	-	2.6 U	-	-	-	1.6 U	16 U	2.3 U	-	-	-
Endrin aldehyde	µg/kg	1200 U	-	66 UJ	-	-	-	2.1 U	21 U	1.6 U	-	-	-
Endrin ketone	µg/kg	7.2 U	-	2.0 U	-	-	-	1.3 U	13 U	1.1 U	-	-	-
gamma-BHC (lindane)	µg/kg	19 U	-	5.3 U	-	-	-	3.4 U	34 U	2.2 U	-	-	-
gamma-Chlordane	µg/kg	9.9 U	-	2.8 U	-	-	-	1.8 U	17 U	1.5 U	-	-	-
Heptachlor epoxide	µg/kg	16 U	-	4.4 U	-	-	-	2.8 U	28 U	1.7 U	-	-	-
Methoxychlor	µg/kg	7.9 U	-	2.2 U	-	-	-	1.4 U	14 U	7.9 U	-	-	-
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**BH165-17**	**BH166-17**	**BH166-17**	**BH168-17**	**BH172-17**	**BH173-17**	**BH173-17**	**BH173-17**	**BH176-18**	**GP25-18**	**GP26-18**	**GP27-18**
Sample ID:		**S-38443-122017-JC-020**	**S-38443-121917-JC-012**	**S-38443-121917-JC-013**	**S-38443-122117-JC-024**	**S-38443-120817-JC-007**	**S-38443-122117-JC-021**	**S-38443-122117-JC-022**	**S-38443-122117-JC-023**	**S-38443-051618-JC-072**	**S-38443-012918-JC-066**	**S-38443-012918-JC-065**	**S-38443-013018-JC-067**
Sample Date:		**12/20/2017**	**12/19/2017**	**12/19/2017**	**12/21/2017**	**12/8/2017**	**12/21/2017**	**12/21/2017**	**12/21/2017**	**5/16/2018**	**1/29/2018**	**1/29/2018**	**1/30/2018**
Sample Depth:		**21.5-23.5 ft BGS**	**1-3 ft BGS**	**18-20 ft BGS**	**12.5-14.5 ft BGS**	**12-14 ft BGS**	**5-7 ft BGS**	**17.5-19.5 ft BGS**	**17.5-19.5 ft BGS Duplicate**	**18-20 ft BGS**	**15-16 ft bgs**	**13.5-14.5 ft bgs**	**7-8 ft bgs**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	1 <	-	-	-	-	-	**8**	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**3.1**	-	**0.12 J**	-	-	-	**0.53 J**	**0.41 J**	0.24 U	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	**10.5**	**2.2**	**6.9**
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**
Sample ID:		**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**
Sample Date:		**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**
Parameters	**Units**														
Volatiles															
1,1,1-Trichloroethane	µg/kg	13000 U	0.23 UJ	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
1,1,2-Trichloroethane	µg/kg	11000 U	0.39 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
1,1-Dichloroethane	µg/kg	15000 U	0.33 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
1,1-Dichloroethene	µg/kg	17000 U	0.54 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
1,2,4-Trichlorobenzene	µg/kg	12000 U	0.24 U	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
1,2-Dichlorobenzene	µg/kg	8500 U	0.22 U	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
1,2-Dichloroethane	µg/kg	14000 U	0.29 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
1,2-Dichloroethene (total)	µg/kg	-	-	5 U	5 U	5 U	5 U	5 U	5 U	**200**	5 U	5 U	12 U	10 U	16 U
1,2-Dichloropropane	µg/kg	14000 U	0.31 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
1,3-Dichlorobenzene	µg/kg	18000 U	0.29 U	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
1,4-Dichlorobenzene	µg/kg	13000 U	0.35 U	-	-	-	-	-	-	-	-	-	**140 J**	340 U	520 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	24000 U	**12 J**	**2 J**	10 U	10 U	**1 J**	10 U	10 U	10 U	10 U	10 U	12 U	10 U	16 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	19000 U	0.88 U	10 U	10 U	10 U	10 U	**36 J**	10 U	10 U	10 U	10 U	12 U	10 U	16 U
Acetone	µg/kg	46000 U	44 U	5 U	5 U	5 U	5 U	**25 J**	5 U	5 U	5 U	5 U	12 U	10 U	16 U
Benzene	µg/kg	11000 U	**0.36 J**	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Carbon disulfide	µg/kg	8500 U	0.21 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Carbon tetrachloride	µg/kg	13000 U	0.25 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Chlorobenzene	µg/kg	14000 U	0.33 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Chloroethane	µg/kg	13000 U	0.38 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Chloroform (Trichloromethane)	µg/kg	11000 U	0.23 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
cis-1,2-Dichloroethene	µg/kg	16000 U	**0.88 J**	-	-	-	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/kg	14000 U	0.21 U	-	-	-	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/kg	**350000**	**0.44 J**	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Isopropyl benzene	µg/kg	16000 U	**1.4 J**	-	-	-	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/kg	35000 U	1.2 U	-	-	-	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	17000 U	0.23 U	-	-	-	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	12000 U	0.27 U	-	-	-	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	33000 U	1.8 UJ	-	-	-	-	-	-	-	-	-	12 JBU	16 BU	16 JBU
Styrene	µg/kg	4700 U	0.27 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Tetrachloroethene	µg/kg	9900 U	0.37 U	5 U	5 U	5 U	5 U	5 U	5 U	**11**	5 U	5 U	**59**	10 U	16 U
Toluene	µg/kg	11000 U	**0.60 J**	**3 J**	5 U	5 U	**7**	**9 J**	**4 J**	**2 J**	5 U	5 U	12 U	10 U	16 U
trans-1,2-Dichloroethene	µg/kg	16000 U	0.38 U	-	-	-	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	17000 U	0.41 U	5 U	5 U	5 U	5 U	5 U	5 U	**4 J**	5 U	5 U	12 U	10 U	16 U
Trichlorofluoromethane (CFC-11)	µg/kg	16000 U	0.24 U	-	-	-	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	µg/kg	11000 U	0.49 U	-	-	-	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/kg	8000 U	0.28 U	-	-	-	-	-	-	-	-	-	12 U	10 U	16 U
Xylenes (total)	µg/kg	**3000000**	**1.4 J**	5 U	5 U	5 U	5 U	**3 J**	5 U	5 U	5 U	5 U	12 U	10 U	16 U
Semi-Volatiles															
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
2-Methylnaphthalene	µg/kg	-	-	**1800**	**500 J**	330 U	**950**	**130 J**	**750 J**	**190 J**	330 U	**240 J**	410 U	340 U	**77 J**
2-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/kg	-	-	330 U	**680 J**	330 U	330 U	**1200**	**95 J**	330 U	330 U	330 U	410 U	340 U	**33 J**
Acenaphthylene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Acetophenone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Anthracene	µg/kg	-	-	**120 J**	**2900**	330 U	330 U	**3000**	**300 J**	330 U	330 U	330 U	410 U	340 U	**29 J**
Benzaldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	-	-	**310 J**	**8500**	330 U	**170 J**	**6900**	**1100**	330 U	330 U	**430 J**	410 U	340 U	**41 J**
Benzo(a)pyrene	µg/kg	-	-	**230 J**	**5700**	330 U	**150 J**	**4800**	**1100**	**150 J**	330 U	**220 J**	410 U	340 U	520 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**
Sample ID:		**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**
Sample Date:		**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**
Parameters	**Units**														
Semi-Volatiles (cont'd)															
Benzo(b)fluoranthene	µg/kg	-	-	**230 J**	**9500**	330 U	**320 J**	**7800**	**2900**	**230 J**	**150 J**	**630 J**	410 U	340 U	520 U
Benzo(g,h,i)perylene	µg/kg	-	-	**150 J**	**4700**	330 U	**250 J**	**3600**	**910**	**170 J**	330 U	**310 J**	410 U	340 U	520 U
Benzo(k)fluoranthene	µg/kg	-	-	**430 J**	**6400**	330 U	330 U	**5500**	330 U	**300 J**	330 U	330 U	410 U	340 U	520 U
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	330 U	**360 J**	330 U	330 U	330 U	330 U	330 U	330 U	330 U	**24 J**	**33 J**	**540**
Butyl benzylphthalate (BBP)	µg/kg	-	-	330 U	330 U	330 U	330 U	330 U	**950**	330 U	330 U	330 U	410 U	**25 J**	520 U
Caprolactam	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Carbazole	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Chrysene	µg/kg	-	-	**380 J**	**5700 J**	330 U	**300 J**	**6400 J**	**1100 J**	**180 J**	330 U	**610 J**	410 U	340 U	**56 J**
Dibenz(a,h)anthracene	µg/kg	-	-	330 U	**1200**	330 U	330 U	**1600**	**230 J**	330 U	330 U	330 U	410 U	340 U	520 U
Dibenzofuran	µg/kg	-	-	**370 J**	**830 J**	330 U	**290 J**	**780 J**	**200 J**	330 U	330 U	330 U	410 U	340 U	**28 J**
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Di-n-butylphthalate (DBP)	µg/kg	-	-	330 U	330 U	330 U	330 U	330 U	**110 J**	330 U	330 U	330 U	410 U	**18 J**	**28 J**
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	**23 J**	520 U
Fluoranthene	µg/kg	-	-	**680 J**	**12000**	330 U	**370 J**	**21000 D**	**2800**	**360 J**	**210 J**	**980 J**	410 U	**21 J**	**140 J**
Fluorene	µg/kg	-	-	330 U	**1500**	330 U	330 U	**1200**	**82 J**	330 U	330 U	330 U	410 U	340 U	520 U
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	**96 J**	**5000**	330 U	**150 J**	**4100**	**910**	**160 J**	330 U	**270 J**	410 U	340 U	520 U
Isophorone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Naphthalene	µg/kg	-	-	**1100**	**290 J**	330 U	**500 J**	**260 J**	**450 J**	330 U	330 U	**150 J**	410 U	**20 J**	**58 J**
N-Nitrosodiphenylamine	µg/kg	-	-	330 U	**450 J**	330 U	330 U	330 U	330 U	330 U	330 U	330 U	410 U	340 U	520 U
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	1000 U	860 U	1300 U
Phenanthrene	µg/kg	-	-	**850 J**	**16000 D**	330 U	**980**	**14000**	**1500**	**170 J**	**210 J**	**540 J**	410 U	340 U	**170 J**
Phenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-	410 U	340 U	520 U
Pyrene	µg/kg	-	-	**580 J**	**8100**	330 U	**300 J**	**13000**	**1900**	**290 J**	**180 J**	**710 J**	410 U	**20 J**	**160 J**
Metals															
Aluminum	mg/kg	-	-	**5730**	**4740**	**3360**	**1990**	**4620**	**2970**	**5350**	**11100**	**8460**	**3470**	**10400**	**5290**
Antimony	mg/kg	-	-	2.4 U	**31.6**	2.4 U	2.4 U	2.4 U	**13.2 B**	2.4 U	**2.1 B**	**18.2 B**	0.75 U	**0.70 B**	**1.0 B**
Arsenic	mg/kg	-	-	**23.9**	**8.3**	**12.6**	**10.3**	**11.1**	**8.9**	**11.6**	**69.3**	**20.1**	**20.7**	**77.2**	**27.0**
Barium	mg/kg	-	-	**991**	**157**	**117**	**81**	**167**	**130**	**150**	**190**	**265**	**182**	**272**	**222**
Beryllium	mg/kg	-	-	**0.72 B**	**0.7 B**	**1.7**	**0.47 B**	**2**	**0.72 B**	**1.4 B**	**5.5**	**2.5**	**2.0**	**5.8**	**3.1**
Cadmium	mg/kg	-	-	**1.3**	**14**	1 U	**1 B**	1 U	**5.9**	**8.6**	1 U	**8.4**	**0.47 B**	**6.6**	**0.38 B**
Calcium	mg/kg	-	-	**33800**	**4790**	**1260**	**1710**	**2650**	**4460**	**4810**	**10000**	**34900**	**4060**	**5650**	**16400**
Chromium	mg/kg	-	-	**18.5**	**91.7**	**6.3**	**11**	**8.6**	**20.6**	**43**	**23.2**	**30.4**	**5.5**	**23.6**	**14.0**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	**3.7 B**	**5.6 B**	**8.8 B**	**5 B**	**8.2 B**	**5.2 B**	**6.2 B**	**22.1**	**10.9 B**	**6.0 B**	**16.2**	**9.6 B**
Copper	mg/kg	-	-	**66.8**	**2220 EJ**	**56.7 EJ**	**74.1 EJ**	**47.4 EJ**	**316 EJ**	**2200 EJ**	**76.6 EJ**	**796 EJ**	**26.8**	**91.8**	**73.0**
Iron	mg/kg	-	-	**15900 EJ**	**77000**	**2840**	**4230**	**5630**	**14800**	**48300**	**11100**	**25500**	**3240**	**9430**	**5890**
Lead	mg/kg	-	-	**64.1**	**3300**	**10.4**	**59.3**	**15.9**	**474**	**1590**	**49.7**	**811**	**29.9**	**110**	**97.0**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	**6270**	**2660**	**294 B**	**439 B**	**537 B**	**2580**	**2230**	**3720**	**15500**	**1010 B**	**1480**	**8070**
Manganese	mg/kg	-	-	**309**	**437**	**7.2**	**55.2**	**27**	**130**	**272**	**162**	**294**	**98.2**	**99.1**	**72.8**
Mercury	mg/kg	-	-	0.008 U	**0.31**	0.008 U	0.008 U	0.008 U	0.008 U	0.008 U	**0.3**	0.008 U	0.12 U	**0.48**	0.14 U
Nickel	mg/kg	-	-	**28.9**	**262**	**13.6**	**17.2**	**17.2**	**94.7**	**402**	**56.6**	**65.5**	**10.4**	**34.6**	**20.0**
Potassium	mg/kg	-	-	**729 B**	**569 B**	**364 B**	**329 B**	**429 B**	**232 B**	**1030 B**	**1630 B**	**915 B**	**611 B**	**1390**	**810 B**
Selenium	mg/kg	-	-	**2.2**	**0.91 B**	**1.6**	**2.2**	**1.7**	**2.4**	**1.1 BWJ**	**4.6**	**3.7**	**1.3**	**8.8**	**6.3**
Silver	mg/kg	-	-	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	0.25 U	0.21 U	0.28 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**
Sample ID:		**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**
Sample Date:		**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**
Parameters	**Units**														
Metals (cont'd)															
Sodium	mg/kg	-	-	**157 B**	**114 B**	**118 B**	**43.7 B**	**81 B**	**64.4 B**	**338 B**	**272 B**	**239 B**	**276 B**	**364 B**	**448 B**
Thallium	mg/kg	-	-	2 U	2 U	2 U	2 U	2 U	2 U	2 U	**2 B**	**0.73 B**	1.0 U	**1.8 B**	**1.7 B**
Vanadium	mg/kg	-	-	**18.2**	**33.9**	**27.9**	**11.5 B**	**28.1**	**16**	**27.4**	**69.6**	**35.5**	**18.3**	**92.6**	**47.7**
Zinc	mg/kg	-	-	**112**	**2350**	**9.2**	**57.6**	**14.4**	**2210**	**1490**	**75.1**	**480**	**33.7**	**39.4**	**231**
PCBs															
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	41 U	34 U	52 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	41 U	34 U	52 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	**360 X**	80 U	80 U	**540 X**	80 U	80 U	80 U	80 U	80 U	41 U	34 U	52 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	41 U	34 U	52 U
Aroclor-1260 (PCB-1260)	µg/kg	-	-	**300 JX**	**580 JX**	160 U	**110 JX**	160 U	**1400 X**	160 U	160 U	**460 JX**	41 U	34 U	52 U
Pesticides															
4,4'-DDD	µg/kg	-	-	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U	5.2 U
4,4'-DDE	µg/kg	-	-	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U	**2.6 J**
4,4'-DDT	µg/kg	-	-	-	-	-	-	-	-	-	-	-	**0.6 PJ**	3.4 U	5.2 U
alpha-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U	2.6 U
alpha-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U	**5.4 P**
beta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U	2.6 U
delta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U	2.6 U
Dieldrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U	5.2 U
Endosulfan I	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U	2.6 U
Endosulfan II	µg/kg	-	-	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U	5.2 U
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U	5.2 U
Endrin	µg/kg	-	-	-	-	-	-	-	-	-	-	-	**1.4 PJ**	3.4 U	5.2 U
Endrin aldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	-	**2.2 PJ**	3.4 U	5.2 U
Endrin ketone	µg/kg	-	-	-	-	-	-	-	-	-	-	-	4.1 U	3.4 U	5.2 U
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U	2.6 U
gamma-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	**0.35 PJ**	**4.3**
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	-	-	-	-	-	2.1 U	1.8 U	**0.78 PJ**
Methoxychlor	µg/kg	-	-	-	-	-	-	-	-	-	-	-	21 U	18 U	26 U
Herbicides															
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products															
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans															
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**GP28-18**	**GP29-18**	**S1(EPA)**	**S3(EPA)**	**S4(EPA)**	**S5(EPA)**	**S6(EPA)**	**S7(EPA)**	**S8(EPA)**	**S9(EPA)**	**S11(EPA)**	**S01(OEPA)**	**S02(OEPA)**	**S04(OEPA)**
Sample ID:		**S-38443-013018-JC-068**	**S-38443-013018-JC-069**	**S1**	**S3**	**S4**	**S5**	**S6**	**S7**	**S8**	**S9**	**S11**	**96-DV-03-S01**	**96-DV-03-S02**	**96-DV-03-S04**
Sample Date:		**1/30/2018**	**1/30/2018**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**10/23/1990**	**7/9/1996**	**7/9/1996**	**7/9/1996**
Sample Depth:		**15-16 ft bgs**	**9-10 ft bgs**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**1-2 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**0-1 ft BGS**	**4-4.6 ft BGS**	**0-0.1 ft BGS**	**1.5-2 ft BGS**
Parameters	**Units**														
Dioxin/Furans (cont'd)															
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos															
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry															
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	**0.27 B**	**0.26 B**	**0.34 B**
Fraction organic carbon (FOC)	%	**0.7**	**3.0**	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**
Sample ID:		**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	16 U	11 U	12 U	11 U	**2.7 J**	1.4 U	0.42 U	1.1 U	**0.71 J**	0.64 U	0.25 U	0.34 U
1,1,2-Trichloroethane	µg/kg	16 U	11 U	12 U	11 U	R	1.9 U	0.72 U	1.5 U	0.98 U	1.1 U	0.42 U	0.58 U
1,1-Dichloroethane	µg/kg	16 U	11 U	12 U	11 U	R	1.1 U	0.61 U	0.94 U	0.83 U	0.91 U	0.36 U	0.49 U
1,1-Dichloroethene	µg/kg	16 U	11 U	12 U	11 U	R	1.5 U	0.99 U	1.2 U	1.4 U	1.5 U	0.58 U	0.80 U
1,2,4-Trichlorobenzene	µg/kg	530 U	350 U	400 U	360 U	R	R	0.44 U	0.78 U	0.61 U	R	0.26 U	0.36 U
1,2-Dichlorobenzene	µg/kg	530 U	350 U	400 U	360 U	R	R	0.40 U	1.5 U	0.56 U	R	0.24 U	0.33 U
1,2-Dichloroethane	µg/kg	16 U	11 U	12 U	11 U	R	1.3 U	0.53 U	1.0 U	0.73 U	0.80 U	0.31 U	0.43 U
1,2-Dichloroethene (total)	µg/kg	16 U	11 U	12 U	11 U	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	16 U	11 U	12 U	11 U	R	1.4 U	0.57 U	1.2 U	0.78 U	0.86 U	0.33 U	0.46 U
1,3-Dichlorobenzene	µg/kg	530 U	350 U	400 U	360 U	R	R	0.53 U	1.1 U	0.73 U	R	0.31 U	0.43 U
1,4-Dichlorobenzene	µg/kg	530 U	350 U	400 U	360 U	R	R	0.64 U	1.2 U	0.88 U	R	0.38 U	0.52 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	16 U	11 U	12 U	11 U	R	5.9 U	2.3 U	4.8 U	3.2 U	3.5 U	1.4 U	1.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	16 U	11 U	12 U	11 U	R	6.1 U	1.6 U	5.0 U	2.2 U	2.5 U	0.96 U	1.3 U
Acetone	µg/kg	16 U	11 U	12 U	11 U	R	35 U	19 U	29 U	16 U	8.5 U	3.3 U	4.5 U
Benzene	µg/kg	16 U	11 U	12 U	11 U	R	1.2 U	**0.86 J**	0.95 U	0.81 U	0.89 U	0.35 U	0.48 U
Carbon disulfide	µg/kg	16 U	11 U	12 U	11 U	**4.1 J**	1.9 U	0.39 U	1.6 U	0.53 U	0.58 U	0.23 U	0.31 U
Carbon tetrachloride	µg/kg	16 U	11 U	12 U	11 U	R	5.4 U	0.46 U	4.4 U	0.63 U	0.69 U	0.27 U	0.37 U
Chlorobenzene	µg/kg	16 U	11 U	12 U	11 U	R	1.5 U	0.61 U	1.2 U	0.83 U	0.91 U	0.36 U	0.49 U
Chloroethane	µg/kg	16 U	11 U	12 U	11 U	R	2.0 U	0.70 U	1.7 U	0.96 U	1.1 U	0.41 U	0.56 U
Chloroform (Trichloromethane)	µg/kg	16 U	11 U	12 U	11 U	R	1.3 U	0.42 U	1.1 U	0.58 U	0.64 U	0.25 U	0.34 U
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	R	1.1 U	0.51 U	0.88 U	0.71 U	0.77 U	0.30 U	0.42 U
Cyclohexane	µg/kg	-	-	-	-	R	2.3 U	0.39 U	1.9 U	0.53 U	0.58 U	0.23 U	0.31 U
Ethylbenzene	µg/kg	16 U	11 U	12 U	11 U	R	1.7 U	0.50 U	1.4 U	0.68 U	0.75 U	0.29 U	0.40 U
Isopropyl benzene	µg/kg	-	-	-	-	R	1.4 U	0.37 U	1.1 U	0.50 U	0.55 U	0.22 U	0.30 U
Methyl acetate	µg/kg	-	-	-	-	R	5.6 U	2.1 U	4.6 U	3.0 U	3.2 U	1.3 U	1.7 U
Methyl cyclohexane	µg/kg	-	-	-	-	R	2.0 U	0.42 U	1.7 U	0.58 U	0.64 U	0.25 U	0.34 U
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	R	1.4 U	0.50 U	1.1 U	0.68 U	0.75 U	0.29 U	0.40 U
Methylene chloride	µg/kg	16 JBU	11 JBU	12 JBU	17 BU	**4.1 J**	20 U	4.5 U	16 U	11 U	0.66 U	0.26 U	0.36 U
Styrene	µg/kg	16 U	11 U	12 U	11 U	R	1.9 U	0.50 U	1.6 U	**0.90 J**	0.75 U	0.29 U	0.40 U
Tetrachloroethene	µg/kg	16 U	11 U	12 U	11 U	**260 J**	1.2 U	0.68 U	0.99 U	**2.8 J**	**1.1 J**	0.40 U	0.55 U
Toluene	µg/kg	16 U	11 U	**4 J**	**7 J**	**1.3 J**	1.3 U	0.62 U	1.1 U	0.86 U	**2.3 J**	0.37 U	0.50 U
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	R	0.77 U	0.70 U	0.63 U	0.96 U	1.1 U	0.41 U	0.56 U
Trichloroethene	µg/kg	16 U	11 U	12 U	11 U	**3.6 J**	1.0 U	0.75 U	0.86 U	1.0 U	1.1 U	0.44 U	0.61 U
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	R	1.8 U	0.44 U	1.5 U	0.61 U	0.66 U	0.26 U	0.36 U
Trifluorotrichloroethane (CFC-113)	µg/kg	-	-	-	-	R	2.1 U	0.90 U	1.7 U	1.2 U	1.4 U	0.53 U	0.73 U
Vinyl chloride	µg/kg	16 U	11 U	12 U	11 U	R	1.4 U	0.51 U	1.1 U	0.71 U	0.77 U	0.30 U	0.42 U
Xylenes (total)	µg/kg	16 U	11 U	12 U	11 U	R	2.6 U	0.73 U	2.2 U	1.0 U	1.1 U	0.43 U	0.59 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	530 U	350 U	400 U	360 U	59 UJ	49 U	130 U	49 U	95 U	28 U	23 U	22 U
2-Chlorophenol	µg/kg	530 U	350 U	400 U	360 U	24 UJ	12 U	54 U	12 U	39 U	12 U	9.6 U	9.2 U
2-Methylnaphthalene	µg/kg	530 U	**49 J**	**46 J**	**74 J**	**800**	**1700 J**	**390**	**1300**	**470**	**630**	**19**	**4.1 J**
2-Methylphenol	µg/kg	530 U	350 U	400 U	360 U	32 UJ	38 U	72 U	38 U	52 U	15 U	13 U	12 U
3&4-Methylphenol	µg/kg	-	-	-	-	59 UJ	36 U	**130 J**	36 U	95 U	28 U	23 U	22 U
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	53 U	R	120 U	53 U	86 U	25 U	21 U	20 U
Acenaphthene	µg/kg	530 U	350 U	400 U	**26 J**	2.2 U	**44**	5.0 U	**24**	**51**	1.1 U	**11**	0.85 U
Acenaphthylene	µg/kg	530 U	350 U	400 U	**50 J**	1.0 U	**57**	**30 J**	**35**	**100**	0.49 U	**7.7 J**	0.39 U
Acetophenone	µg/kg	-	-	-	-	**73 J**	**380**	**550 J**	**120**	**67 J**	**52 J**	11 U	10 U
Anthracene	µg/kg	530 U	**26 J**	400 U	**97 J**	**47**	**110**	**90**	**66**	**140**	**23**	**41**	**4.6 J**
Benzaldehyde	µg/kg	-	-	-	-	**61 J**	**290**	**420 J**	**140**	**76 J**	17 U	**16 J**	13 U
Benzo(a)anthracene	µg/kg	530 U	**180 J**	**51 J**	**950**	**200**	**480**	**170**	**260**	**850**	**120**	**220**	**23**
Benzo(a)pyrene	µg/kg	530 U	**110 J**	400 U	**1000**	**140**	**470**	**140**	**230**	**1000**	**110**	**210**	**23**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**
Sample ID:		**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	530 U	**320 J**	**79 J**	**1300**	**330**	**960**	**220**	**400**	**1500**	**240**	**350**	**33**
Benzo(g,h,i)perylene	µg/kg	530 U	350 U	400 U	**310 J**	**89**	**350**	**130**	**200**	**850**	**78**	**110**	**21**
Benzo(k)fluoranthene	µg/kg	530 U	**200 J**	**73 J**	**920**	**73**	**250**	**66**	**110**	**460**	**67**	**140**	**12**
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	**59 J**	**150**	**180 J**	**86**	**60 J**	**49 J**	4.1 U	3.9 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	530 U	**2100**	**72 J**	**120 J**	**250**	**240 J**	**940**	**88**	**440**	97 U	38 U	55 U
Butyl benzylphthalate (BBP)	µg/kg	530 U	**18000 E**	**61 J**	360 U	**340**	**1200**	**1200**	**27 J**	48 U	14 U	12 U	11 U
Caprolactam	µg/kg	-	-	-	-	110 U	92 U	240 U	93 U	180 U	52 U	43 U	41 U
Carbazole	µg/kg	530 U	350 U	400 U	**38 J**	79 U	**59 J**	180 U	**36 J**	130 U	38 U	31 U	30 U
Chrysene	µg/kg	530 U	**320 J**	**93 J**	**1000**	**240**	**610**	**200**	**300**	**920**	**180**	**240**	**23**
Dibenz(a,h)anthracene	µg/kg	530 U	350 U	400 U	**450**	1.9 U	**94**	4.3 U	**50**	**210**	0.93 U	0.77 U	0.74 U
Dibenzofuran	µg/kg	530 U	350 U	400 U	**29 J**	**260**	**420**	**180 J**	**320**	**170 J**	**180**	**10 J**	0.74 U
Diethyl phthalate	µg/kg	530 U	350 U	400 U	360 U	47 U	38 U	**140 J**	38 U	76 U	23 U	19 U	18 U
Dimethyl phthalate	µg/kg	530 U	350 U	400 U	360 U	50 U	17 U	110 U	17 U	81 U	24 U	20 U	19 U
Di-n-butylphthalate (DBP)	µg/kg	**31 J**	**1500**	**35 J**	360 U	**150 J**	**200**	**710**	31 U	**140 J**	**44 J**	17 U	17 U
Di-n-octyl phthalate (DnOP)	µg/kg	530 U	350 U	400 U	360 U	23 U	34 U	52 U	35 U	38 U	11 U	9.2 U	8.8 U
Fluoranthene	µg/kg	530 U	**340 J**	**100 J**	**1300**	**310**	**740**	**350**	**420**	**1300**	**200**	**470**	**34**
Fluorene	µg/kg	530 U	350 U	400 U	**38 J**	1.6 U	**49**	**96**	3.4 U	**40**	0.75 U	**13**	0.59 U
Hexachlorobenzene	µg/kg	530 U	350 U	400 U	360 U	6.2 U	3.5 U	14 U	3.5 U	10 U	3.0 U	2.4 U	2.4 U
Hexachlorobutadiene	µg/kg	530 U	350 U	400 U	360 U	16 U	15 U	37 U	15 U	27 U	7.9 U	6.5 U	6.3 U
Indeno(1,2,3-cd)pyrene	µg/kg	530 U	**120 J**	400 U	**910**	**58**	**260**	**95**	**140**	**690**	**47**	**110**	**18**
Isophorone	µg/kg	530 U	350 U	400 U	360 U	38 U	15 U	85 U	15 U	62 U	18 U	15 U	15 U
Naphthalene	µg/kg	530 U	**35 J**	**26 J**	**59 J**	**480**	**860**	**370**	**850**	**330**	**400**	**15**	0.92 U
N-Nitrosodiphenylamine	µg/kg	530 U	350 U	400 U	360 U	62 U	15 U	140 U	15 U	100 U	30 U	24 U	24 U
Pentachlorophenol	µg/kg	1300 U	880 U	1000 U	900 U	27 UJ	71 U	60 U	72 U	43 U	13 U	11 U	10 U
Phenanthrene	µg/kg	530 U	**180 J**	**100 J**	**570**	**580**	**1300**	**670**	**660**	**700**	**440**	**220**	**18**
Phenol	µg/kg	530 U	**64 J**	400 U	360 U	21 UJ	9.9 U	**220 J**	9.9 U	35 U	10 U	8.5 U	8.2 U
Pyrene	µg/kg	1300 U	**320 J**	**120 J**	**1600**	**320**	**710**	**370**	**380**	**1200**	**200**	**450**	**32**
Metals													
Aluminum	mg/kg	**6210**	**4970**	**8080**	**3290**	**4700 J**	**4500 J**	**12000**	**3900 J**	**7600**	**2800 J**	**7800 J**	**4700 J**
Antimony	mg/kg	1.0 U	**2.9 B**	**8.4 B**	**2.1 B**	**21 J**	**2.2 J**	**52**	**30 J**	**39**	**0.68 J**	0.25 UJ	0.17 UJ
Arsenic	mg/kg	**49.7**	**36.0**	**15.4**	**6.6**	**60**	**11**	**15**	**10**	**10**	**4.0**	**8.0**	**4.4**
Barium	mg/kg	**320**	**824**	**318**	**93.8**	**440**	**150 J**	**750**	**270 J**	**190**	**88**	**56**	**87**
Beryllium	mg/kg	**3.3**	**2.6**	**1.9**	**1.1 B**	**5.3**	**0.29**	**0.78**	**0.56**	**0.51**	**0.58**	**0.51**	**0.50**
Cadmium	mg/kg	0.33 U	**3.9**	**16.3**	**1.4**	**5.3**	**3.5**	**34**	**2.2**	**8.0**	**0.34**	**0.27**	0.17 U
Calcium	mg/kg	**2280**	**19800**	**48800**	**98000**	**2000**	**1800**	**25000**	**51000**	**62000**	**15000**	**43000**	**110000**
Chromium	mg/kg	**16.5**	**50.7**	**43.2**	**18.7**	**24**	**13**	**110**	**22**	**35**	**7.9**	**13**	**8.5**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	**13**	-	**22**	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	1.5 U	-	0.60 U	-	-	-	-
Cobalt	mg/kg	**8.7 B**	**11.2**	**13.8**	**4.3 B**	**12**	**3.9**	**17**	**7.3**	**7.7**	**4.3**	**6.4**	**3.6**
Copper	mg/kg	**41.5**	**1680**	**191000**	**405**	**580**	**320 J**	**3200**	**320 J**	**750**	**37**	**19**	**17**
Iron	mg/kg	**3120**	**13800**	**92300**	**16000**	**9200**	**7900**	**94000**	**19000**	**32000**	**5900**	**16000**	**8900**
Lead	mg/kg	**18.2**	**1990**	**12100**	**242**	**370**	**210 J**	**13000**	**360 J**	**1900**	**46**	**17**	**53**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	**6400**	**240 J**	-	-	-	**59**
Lead - fine fraction	mg/kg	-	-	-	-	-	-	**4200**	**360**	-	-	-	**120**
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	**5900**	**260**	-	-	-	**70**
Magnesium	mg/kg	**596 B**	**18200**	**8860**	**36200**	**1500**	**580**	**8400**	**23000**	**28000**	**7400**	**19000**	**39000**
Manganese	mg/kg	**45.2**	**236**	**693**	**344**	**47 J**	**76**	**600**	**270**	**530**	**100 J**	**480**	**360**
Mercury	mg/kg	0.17 U	**0.21**	0.13 U	0.11 U	**0.17**	**0.064 J**	**0.20**	**0.12 J**	**0.45**	**0.049 J**	**0.045 J**	**0.30**
Nickel	mg/kg	**16.6**	**85.0**	**139**	**24.2**	**38**	**36 J**	**120**	**170 J**	**94**	**11**	**15**	**9.7**
Potassium	mg/kg	**1230 B**	**685 B**	**763 B**	**599 B**	**430**	**470**	**1000**	**690**	**730**	**450**	**890**	**600**
Selenium	mg/kg	**8.6**	**2.8**	**2.6**	**0.93 B**	**5.1**	**1.2**	**1.5**	**1.6**	0.87 U	1.3 U	**0.75 J**	**0.46 J**
Silver	mg/kg	0.33 U	**0.90 B**	**7.6**	0.22 U	**0.46**	**0.19 J**	**4.1**	**0.60**	**1.3**	**0.072 J**	**0.041 J**	**0.067 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**
Sample ID:		**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	**406 B**	**279 B**	**809 B**	**368 B**	100 U	59 U	**980**	**120 J**	**300**	97 U	85 U	130 U
Thallium	mg/kg	1.3 U	**1.5 B**	**4.5**	**1.3 B**	**1.8**	**0.13 J**	**0.41 J**	**0.30**	**0.20 J**	**0.13 J**	**0.19 J**	**0.12 J**
Vanadium	mg/kg	**61.9**	**33.6**	**28.1**	**15.6**	**44**	**9.1**	**29**	**21**	**21**	**12**	**20**	**13**
Zinc	mg/kg	**48.0**	**291**	**11500**	**159**	**390**	**810 J**	**2800**	**430 J**	**1200**	**43**	**58**	**46**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	53 U	35 U	40 U	36 U	24 U	140 U	21 U	28 U	390 U	22 U	19 U	18 U
Aroclor-1242 (PCB-1242)	µg/kg	53 U	35 U	40 U	36 U	29 U	**770**	**340**	23 U	480 U	28 U	23 U	23 U
Aroclor-1248 (PCB-1248)	µg/kg	53 U	35 U	40 U	36 U	25 U	150 U	22 U	30 U	410 U	24 U	20 U	19 U
Aroclor-1254 (PCB-1254)	µg/kg	53 U	**830**	**170 P**	36 U	**85**	**1100**	**660**	**110**	**29000**	**84**	**28 J**	16 U
Aroclor-1260 (PCB-1260)	µg/kg	53 U	**1200**	40 U	36 U	26 U	140 U	23 U	27 U	430 U	25 U	21 U	21 U
Pesticides													
4,4'-DDD	µg/kg	5.3 U	3.5 U	4 U	**4.4**	24 U	36 U	86 U	**28 J**	200 U	24 U	3.8 U	19 U
4,4'-DDE	µg/kg	5.3 U	3.5 U	4 U	3.6 U	8.7 U	37 U	31 U	19 U	72 U	8.7 U	1.4 U	6.8 U
4,4'-DDT	µg/kg	5.3 U	3.5 U	4 U	3.6 U	10 U	28 U	37 U	14 U	84 U	10 U	1.6 U	8.0 U
alpha-BHC	µg/kg	2.7 U	1.8 U	2.1 U	1.8 U	12 U	22 U	42 U	11 U	96 U	12 U	1.9 U	9.1 U
alpha-Chlordane	µg/kg	2.7 U	1.8 U	2.1 U	1.8 U	28 U	37 U	99 U	18 U	230 U	28 U	4.4 U	22 U
beta-BHC	µg/kg	2.7 U	1.8 U	2.1 U	1.8 U	28 U	42 U	100 U	21 U	230 U	28 U	4.5 U	22 U
delta-BHC	µg/kg	2.7 U	1.8 U	2.1 U	1.8 U	9.4 U	41 U	34 U	21 U	78 U	9.4 U	1.5 U	7.4 U
Dieldrin	µg/kg	5.3 U	3.5 U	4 U	3.6 U	6.5 U	27 U	23 U	14 U	54 U	6.5 U	1.0 U	5.1 U
Endosulfan I	µg/kg	2.7 U	1.8 U	2.1 U	1.8 U	9.4 U	29 U	34 U	15 U	78 U	9.4 U	1.5 U	7.4 U
Endosulfan II	µg/kg	5.3 U	3.5 U	4 U	3.6 U	13 U	36 U	47 U	18 U	110 U	13 U	2.1 U	10 U
Endosulfan sulfate	µg/kg	5.3 U	3.5 U	4 U	3.6 U	8.7 U	31 U	31 U	16 U	72 U	8.7 U	1.4 U	6.8 U
Endrin	µg/kg	5.3 U	3.5 U	4 U	3.6 U	10 U	46 U	**39 NJ**	23 U	**140 NJ**	10 U	1.6 U	8.0 U
Endrin aldehyde	µg/kg	5.3 U	3.5 U	4 U	3.6 U	13 U	32 U	**110 J**	16 U	110 UJ	13 U	2.1 U	10 U
Endrin ketone	µg/kg	5.3 U	3.5 U	4 U	**7.5 P**	8.0 U	22 U	29 U	11 U	66 U	8.0 U	1.3 U	6.2 U
gamma-BHC (lindane)	µg/kg	2.7 U	1.8 U	**0.77 PJ**	**0.42 J**	21 U	44 U	76 U	22 U	170 U	21 U	3.4 U	16 U
gamma-Chlordane	µg/kg	2.7 U	1.8 U	2.1 U	**2.3 P**	11 U	30 U	39 U	15 U	90 U	11 U	1.7 U	8.5 U
Heptachlor epoxide	µg/kg	2.7 U	1.8 U	2.1 U	1.8 U	17 U	35 U	63 U	18 U	140 U	17 U	2.8 U	14 U
Methoxychlor	µg/kg	27 U	18 U	21 U	18 U	8.7 U	160 U	31 U	81 U	72 U	8.7 U	**2.8 J**	6.8 U
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**S06(OEPA)**	**S09(OEPA)**	**S10(OEPA)**	**S11(OEPA)**	**SS-20**	**SS-21**	**SS-22**	**SS-23**	**SS-24**	**SS-29**	**SS-30**	**SS-31**
Sample ID:		**96-DV-03-S06**	**96-DV-03-S09**	**96-DV-03-S10**	**96-DV-03-S11**	**S-38443-103117-BW-005**	**SS-38443-111918-JC-021**	**S-38443-110717-BW-029**	**SS-38443-111918-JC-023**	**S-38443-110717-BW-026**	**S-38443-103117-BW-003**	**S-38443-110217-BW-019**	**S-38443-110217-BW-017**
Sample Date:		**7/9/1996**	**7/9/1996**	**7/9/1996**	**7/9/1996**	**10/31/2017**	**11/19/2018**	**11/7/2017**	**11/19/2018**	**11/7/2017**	**10/31/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**1.5-2.5 ft BGS**	**0.3-0.5 ft BGS**	**0-0.3 ft BGS**	**0.2-0.3 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-	-
Asbestos													
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	**0.29 B**	**3.7**	**0.60 B**	**0.55**	0.68 U	**0.35 J**	0.59 UJ	0.24 U	0.51 UJ	0.60 U	0.53 U	0.52 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**SS-35**	**SS-36**	**SS-106**	**SS-107**	**SS-108 (SS-22/TT-32)**	**SS-110 (SS-31/TT39)**	**SS-110 (SS-31/TT39)**	**SS-111 (SS-30/TT-38)**	**SS-113 (SS-35/TP-15)**	**SS-181-AS**	**SS-182-AS**
Sample ID:		**S-38443-103017-BW-001**	**S-38443-103117-BW-007**	**SS-38443-111918-JC-106**	**SS-38443-111918-JC-107**	**SS-38443-111618-JC-108**	**SS-38443-111918-JC-110**	**SS-38443-111918-JC-126**	**SS-38443-111618-JC-111**	**SS-38443-111618-JC-113**	**SS-38443-111918-JC-181**	**SS-38443-111918-JC-182**
Sample Date:		**10/30/2017**	**10/31/2017**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/19/2018**
Sample Depth:		**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS**	**0-2 ft BGS Duplicate**	**0-2 ft BGS**	**0-2 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	0.27 U	0.31 U	-	-	-	-	-	-	-	-	-
1,1,2-Trichloroethane	µg/kg	0.47 U	0.52 U	-	-	-	-	-	-	-	-	-
1,1-Dichloroethane	µg/kg	0.39 U	0.44 U	-	-	-	-	-	-	-	-	-
1,1-Dichloroethene	µg/kg	0.64 U	0.72 U	-	-	-	-	-	-	-	-	-
1,2,4-Trichlorobenzene	µg/kg	0.29 U	0.32 U	-	-	-	-	-	-	-	-	-
1,2-Dichlorobenzene	µg/kg	0.26 U	0.29 U	-	-	-	-	-	-	-	-	-
1,2-Dichloroethane	µg/kg	0.35 U	0.39 U	-	-	-	-	-	-	-	-	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	0.37 U	0.41 U	-	-	-	-	-	-	-	-	-
1,3-Dichlorobenzene	µg/kg	0.35 U	0.39 U	-	-	-	-	-	-	-	-	-
1,4-Dichlorobenzene	µg/kg	0.42 U	0.47 U	-	-	-	-	-	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	1.5 U	1.7 U	-	-	-	-	-	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.1 U	1.2 U	-	-	-	-	-	-	-	-	-
Acetone	µg/kg	3.7 U	4.1 U	-	-	-	-	-	-	-	-	-
Benzene	µg/kg	0.38 U	0.43 U	-	-	-	-	-	-	-	-	-
Carbon disulfide	µg/kg	0.25 U	0.28 U	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	µg/kg	0.30 U	0.33 U	-	-	-	-	-	-	-	-	-
Chlorobenzene	µg/kg	0.39 U	0.44 U	-	-	-	-	-	-	-	-	-
Chloroethane	µg/kg	0.45 U	0.51 U	-	-	-	-	-	-	-	-	-
Chloroform (Trichloromethane)	µg/kg	0.27 U	0.31 U	-	-	-	-	-	-	-	-	-
cis-1,2-Dichloroethene	µg/kg	0.33 U	0.37 U	-	-	-	-	-	-	-	-	-
Cyclohexane	µg/kg	0.25 U	0.28 U	-	-	-	-	-	-	-	-	-
Ethylbenzene	µg/kg	0.32 U	0.36 U	-	-	-	-	-	-	-	-	-
Isopropyl benzene	µg/kg	0.24 U	0.27 U	-	-	-	-	-	-	-	-	-
Methyl acetate	µg/kg	1.4 U	1.6 U	-	-	-	-	-	-	-	-	-
Methyl cyclohexane	µg/kg	0.27 U	0.31 U	-	-	-	-	-	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/kg	0.32 U	0.36 U	-	-	-	-	-	-	-	-	-
Methylene chloride	µg/kg	0.29 U	0.32 U	-	-	-	-	-	-	-	-	-
Styrene	µg/kg	0.32 U	0.36 U	-	-	-	-	-	-	-	-	-
Tetrachloroethene	µg/kg	0.44 U	0.49 U	-	-	-	-	-	-	-	-	-
Toluene	µg/kg	0.41 U	0.45 U	-	-	-	-	-	-	-	-	-
trans-1,2-Dichloroethene	µg/kg	0.45 U	0.51 U	-	-	-	-	-	-	-	-	-
Trichloroethene	µg/kg	0.49 U	0.55 U	-	-	-	-	-	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/kg	0.29 U	0.32 U	-	-	-	-	-	-	-	-	-
Trifluorotrichloroethane (CFC-113)	µg/kg	0.59 U	0.65 U	-	-	-	-	-	-	-	-	-
Vinyl chloride	µg/kg	0.33 U	0.37 U	-	-	-	-	-	-	-	-	-
Xylenes (total)	µg/kg	0.48 U	0.53 U	-	-	-	-	-	-	-	-	-
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	22 U	22 U	-	-	-	-	-	-	-	-	-
2-Chlorophenol	µg/kg	9.1 U	8.9 U	-	-	-	-	-	-	-	-	-
2-Methylnaphthalene	µg/kg	**11**	**16**	-	-	-	-	-	-	-	-	-
2-Methylphenol	µg/kg	12 U	12 U	-	-	-	-	-	-	-	-	-
3&4-Methylphenol	µg/kg	22 U	22 U	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	20 U	20 U	-	-	-	-	-	-	-	-	-
Acenaphthene	µg/kg	**16**	0.83 U	-	-	-	-	-	-	-	-	-
Acenaphthylene	µg/kg	**200**	**45**	-	-	-	-	-	-	-	-	-
Acetophenone	µg/kg	10 U	10 U	-	-	-	-	-	-	-	-	-
Anthracene	µg/kg	**71**	**19**	-	-	-	-	-	-	-	-	-
Benzaldehyde	µg/kg	13 U	13 U	-	-	-	-	-	-	-	-	-
Benzo(a)anthracene	µg/kg	**430**	**160**	-	-	-	-	-	-	-	-	-
Benzo(a)pyrene	µg/kg	**530**	**180**	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		SS-35	SS-36	SS-106	SS-107	SS-108 (SS-22/TT-32)	SS-110 (SS-31/TT39)	SS-110 (SS-31/TT39)	SS-111 (SS-30/TT-38)	SS-113 (SS-35/TP-15)	SS-181-AS	SS-182-AS
Sample ID:		S-38443-103017-BW-001	S-38443-103117-BW-007	SS-38443-111918-JC-106	SS-38443-111918-JC-107	SS-38443-111618-JC-108	SS-38443-111918-JC-110	SS-38443-111918-JC-126	SS-38443-111618-JC-111	SS-38443-111618-JC-113	SS-38443-111918-JC-181	SS-38443-111918-JC-182
Sample Date:		10/30/2017	10/31/2017	11/19/2018	11/19/2018	11/16/2018	11/19/2018	11/19/2018	11/16/2018	11/16/2018	11/19/2018	11/19/2018
Sample Depth:		0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate	0-2 ft BGS	0-2 ft BGS	0-0.5 ft BGS	0-0.5 ft BGS
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**560**	**340**	-	-	-	-	-	-	-	-	-
Benzo(g,h,i)perylene	µg/kg	**430**	**78**	-	-	-	-	-	-	-	-	-
Benzo(k)fluoranthene	µg/kg	**340**	**120**	-	-	-	-	-	-	-	-	-
Biphenyl (1,1-Biphenyl)	µg/kg	3.9 U	3.8 U	-	-	-	-	-	-	-	-	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	**75 J**	53 U	-	-	-	-	-	-	-	-	-
Butyl benzylphthalate (BBP)	µg/kg	11 U	11 U	-	-	-	-	-	-	-	-	-
Caprolactam	µg/kg	41 U	40 U	-	-	-	-	-	-	-	-	-
Carbazole	µg/kg	**30 J**	29 U	-	-	-	-	-	-	-	-	-
Chrysene	µg/kg	**420**	**180**	-	-	-	-	-	-	-	-	-
Dibenz(a,h)anthracene	µg/kg	**110**	0.72 U	-	-	-	-	-	-	-	-	-
Dibenzofuran	µg/kg	**11 J**	0.72 U	-	-	-	-	-	-	-	-	-
Diethyl phthalate	µg/kg	18 U	17 U	-	-	-	-	-	-	-	-	-
Dimethyl phthalate	µg/kg	19 U	19 U	-	-	-	-	-	-	-	-	-
Di-n-butylphthalate (DBP)	µg/kg	17 U	**31 J**	-	-	-	-	-	-	-	-	-
Di-n-octyl phthalate (DnOP)	µg/kg	8.8 U	8.6 U	-	-	-	-	-	-	-	-	-
Fluoranthene	µg/kg	**650**	**210**	-	-	-	-	-	-	-	-	-
Fluorene	µg/kg	**21**	0.58 U	-	-	-	-	-	-	-	-	-
Hexachlorobenzene	µg/kg	2.3 UJ	2.3 U	-	-	-	-	-	-	-	-	-
Hexachlorobutadiene	µg/kg	6.2 U	6.1 U	-	-	-	-	-	-	-	-	-
Indeno(1,2,3-cd)pyrene	µg/kg	**390**	**79**	-	-	-	-	-	-	-	-	-
Isophorone	µg/kg	14 U	14 U	-	-	-	-	-	-	-	-	-
Naphthalene	µg/kg	**15**	**11**	-	-	-	-	-	-	-	-	-
N-Nitrosodiphenylamine	µg/kg	23 U	23 U	-	-	-	-	-	-	-	-	-
Pentachlorophenol	µg/kg	10 UJ	9.9 U	-	-	-	-	-	-	-	-	-
Phenanthrene	µg/kg	**220**	**62**	-	-	-	-	-	-	-	-	-
Phenol	µg/kg	8.1 U	8.0 U	-	-	-	-	-	-	-	-	-
Pyrene	µg/kg	**610**	**220**	-	-	-	-	-	-	-	-	-
Metals												
Aluminum	mg/kg	**7700 J**	**3400 J**	-	-	-	-	-	-	-	-	-
Antimony	mg/kg	**0.41 J**	**0.24 J**	-	-	-	-	-	-	-	-	-
Arsenic	mg/kg	**8.3**	**5.4**	-	-	-	-	-	-	-	-	-
Barium	mg/kg	**170**	**45**	-	-	-	-	-	-	-	-	-
Beryllium	mg/kg	**0.45**	**0.25**	-	-	-	-	-	-	-	-	-
Cadmium	mg/kg	**0.44**	**0.25**	-	-	-	-	-	-	-	-	-
Calcium	mg/kg	**60000**	**100000**	-	-	-	-	-	-	-	-	-
Chromium	mg/kg	**14**	**6.3**	-	-	-	-	-	-	-	-	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**7.2**	**2.9**	-	-	-	-	-	-	-	-	-
Copper	mg/kg	**44**	**75**	-	-	-	-	-	-	-	-	-
Iron	mg/kg	**15000**	**8200**	-	-	-	-	-	-	-	-	-
Lead	mg/kg	**120**	**42**	-	-	-	-	-	-	-	-	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**21000**	**42000**	-	-	-	-	-	-	-	-	-
Manganese	mg/kg	**620 J**	**260 J**	-	-	-	-	-	-	-	-	-
Mercury	mg/kg	**0.052 J**	**0.053 J**	-	-	-	-	-	-	-	-	-
Nickel	mg/kg	**14**	**7.3**	-	-	-	-	-	-	-	-	-
Potassium	mg/kg	**800**	**590**	-	-	-	-	-	-	-	-	-
Selenium	mg/kg	**1.5**	0.82 U	-	-	-	-	-	-	-	-	-
Silver	mg/kg	**0.078 J**	**0.060 J**	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		SS-35	SS-36	SS-106	SS-107	SS-108 (SS-22/TT-32)	SS-110 (SS-31/TT39)	SS-110 (SS-31/TT39)	SS-111 (SS-30/TT-38)	SS-113 (SS-35/TP-15)	SS-181-AS	SS-182-AS
Sample ID:		S-38443-103017-BW-001	S-38443-103117-BW-007	SS-38443-111918-JC-106	SS-38443-111918-JC-107	SS-38443-111618-JC-108	SS-38443-111918-JC-110	SS-38443-111918-JC-126	SS-38443-111618-JC-111	SS-38443-111618-JC-113	SS-38443-111918-JC-181	SS-38443-111918-JC-182
Sample Date:		10/30/2017	10/31/2017	11/19/2018	11/19/2018	11/16/2018	11/19/2018	11/19/2018	11/16/2018	11/16/2018	11/19/2018	11/19/2018
Sample Depth:		0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate	0-2 ft BGS	0-2 ft BGS	0-0.5 ft BGS	0-0.5 ft BGS
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	86 U	120 U	-	-	-	-	-	-	-	-	-
Thallium	mg/kg	**0.18 J**	**0.10 J**	-	-	-	-	-	-	-	-	-
Vanadium	mg/kg	**21**	**11**	-	-	-	-	-	-	-	-	-
Zinc	mg/kg	**110**	**86**	-	-	-	-	-	-	-	-	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	19 U	18 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1242 (PCB-1242)	µg/kg	23 U	22 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1248 (PCB-1248)	µg/kg	20 U	19 UJ	-	-	-	-	-	-	-	-	-
Aroclor-1254 (PCB-1254)	µg/kg	**52 J**	**75**	-	-	-	-	-	-	-	-	-
Aroclor-1260 (PCB-1260)	µg/kg	21 U	20 U	-	-	-	-	-	-	-	-	-
Pesticides												
4,4'-DDD	µg/kg	3.7 U	3.6 U	-	-	-	-	-	-	-	-	-
4,4'-DDE	µg/kg	1.3 U	1.3 U	-	-	-	-	-	-	-	-	-
4,4'-DDT	µg/kg	**3.4 J**	**3.8 J**	-	-	-	-	-	-	-	-	-
alpha-BHC	µg/kg	1.8 U	1.7 U	-	-	-	-	-	-	-	-	-
alpha-Chlordane	µg/kg	4.3 U	4.1 U	-	-	-	-	-	-	-	-	-
beta-BHC	µg/kg	4.4 U	4.2 U	-	-	-	-	-	-	-	-	-
delta-BHC	µg/kg	1.5 U	1.4 U	-	-	-	-	-	-	-	-	-
Dieldrin	µg/kg	1.0 U	0.98 U	-	-	-	-	-	-	-	-	-
Endosulfan I	µg/kg	1.5 U	1.4 U	-	-	-	-	-	-	-	-	-
Endosulfan II	µg/kg	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
Endosulfan sulfate	µg/kg	**1.7 J**	1.3 U	-	-	-	-	-	-	-	-	-
Endrin	µg/kg	1.6 U	1.5 U	-	-	-	-	-	-	-	-	-
Endrin aldehyde	µg/kg	2.0 U	2.0 U	-	-	-	-	-	-	-	-	-
Endrin ketone	µg/kg	1.2 U	1.2 U	-	-	-	-	-	-	-	-	-
gamma-BHC (lindane)	µg/kg	3.3 U	3.2 U	-	-	-	-	-	-	-	-	-
gamma-Chlordane	µg/kg	1.7 U	1.6 U	-	-	-	-	-	-	-	-	-
Heptachlor epoxide	µg/kg	2.7 U	2.6 U	-	-	-	-	-	-	-	-	-
Methoxychlor	µg/kg	1.3 U	1.3 U	-	-	-	-	-	-	-	-	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	20 U	17 U	18 U	16 U	15 U	17 U	18 U	-	-
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**14**	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**180**	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**8.4**	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**19**	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	0.13 U	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**1.3 J**	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**0.55 J**	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**1.7 J**	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1.4 J**	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	0.20 U	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1.3 J**	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**0.28 J**	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**0.79 J**	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**1.1 J**	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**0.90 J**	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**0.89 J**	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		SS-35	SS-36	SS-106	SS-107	SS-108 (SS-22/TT-32)	SS-110 (SS-31/TT39)	SS-110 (SS-31/TT39)	SS-111 (SS-30/TT-38)	SS-113 (SS-35/TP-15)	SS-181-AS	SS-182-AS
Sample ID:		S-38443-103017-BW-001	S-38443-103117-BW-007	SS-38443-111918-JC-106	SS-38443-111918-JC-107	SS-38443-111618-JC-108	SS-38443-111918-JC-110	SS-38443-111918-JC-126	SS-38443-111618-JC-111	SS-38443-111618-JC-113	SS-38443-111918-JC-181	SS-38443-111918-JC-182
Sample Date:		10/30/2017	10/31/2017	11/19/2018	11/19/2018	11/16/2018	11/19/2018	11/19/2018	11/16/2018	11/16/2018	11/19/2018	11/19/2018
Sample Depth:		0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS	0-2 ft BGS Duplicate	0-2 ft BGS	0-2 ft BGS	0-0.5 ft BGS	0-0.5 ft BGS
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**0.17 J**	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	**20 J**	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**40 J**	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	**33 J**	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**12 J**	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	**54 J**	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**24 J**	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	**59 J**	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**2.0 J**	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	**0.25**	0.25 <
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.47 U	0.48 U	-	-	-	-	-	-	-	-	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**SS-183-AS**	**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**	**SS-192-AS**	**TP-1**
Sample ID:		**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,1,2-Trichloroethane	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,1-Dichloroethane	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,1-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,2,4-Trichlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,2-Dichlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,2-Dichloroethane	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,3-Dichlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
1,4-Dichlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	-	-	-	-	-	-	-	-	-	-	21 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	-	-	-	-	-	-	-	-	-	-	21 U
Acetone	µg/kg	-	-	-	-	-	-	-	-	-	-	21 U
Benzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Carbon disulfide	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Carbon tetrachloride	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Chlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Chloroethane	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Chloroform (Trichloromethane)	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
cis-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Cyclohexane	µg/kg	-	-	-	-	-	-	-	-	-	-	10 U
Ethylbenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Isopropyl benzene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Methyl acetate	µg/kg	-	-	-	-	-	-	-	-	-	-	10 U
Methyl cyclohexane	µg/kg	-	-	-	-	-	-	-	-	-	-	10 U
Methyl tert butyl ether (MTBE)	µg/kg	-	-	-	-	-	-	-	-	-	-	21 U
Methylene chloride	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Styrene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Tetrachloroethene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Toluene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
trans-1,2-Dichloroethene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Trichloroethene	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Trichlorofluoromethane (CFC-11)	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Trifluorotrichloroethane (CFC-113)	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Vinyl chloride	µg/kg	-	-	-	-	-	-	-	-	-	-	5.2 U
Xylenes (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	10 U
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	160 U
2-Chlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
2-Methylnaphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	**13**
2-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	220 U
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	-	-	-	-	-	-	-	-	-	-	110 U
Acenaphthene	µg/kg	-	-	-	-	-	-	-	-	-	-	**9.7**
Acenaphthylene	µg/kg	-	-	-	-	-	-	-	-	-	-	**22**
Acetophenone	µg/kg	-	-	-	-	-	-	-	-	-	-	110 U
Anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	**83**
Benzaldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	110 U
Benzo(a)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	**1100**
Benzo(a)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	**980**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**SS-183-AS**	**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**	**SS-192-AS**	**TP-1**
Sample ID:		**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	**1800**
Benzo(g,h,i)perylene	µg/kg	-	-	-	-	-	-	-	-	-	-	**920**
Benzo(k)fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	**710**
Biphenyl (1,1-Biphenyl)	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Butyl benzylphthalate (BBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Caprolactam	µg/kg	-	-	-	-	-	-	-	-	-	-	360 U
Carbazole	µg/kg	-	-	-	-	-	-	-	-	-	-	**22 J**
Chrysene	µg/kg	-	-	-	-	-	-	-	-	-	-	**1300**
Dibenz(a,h)anthracene	µg/kg	-	-	-	-	-	-	-	-	-	-	**270**
Dibenzofuran	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Diethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Dimethyl phthalate	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Di-n-butylphthalate (DBP)	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Di-n-octyl phthalate (DnOP)	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Fluoranthene	µg/kg	-	-	-	-	-	-	-	-	-	-	**1400**
Fluorene	µg/kg	-	-	-	-	-	-	-	-	-	-	**8.2**
Hexachlorobenzene	µg/kg	-	-	-	-	-	-	-	-	-	-	7.3 U
Hexachlorobutadiene	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Indeno(1,2,3-cd)pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	**850**
Isophorone	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Naphthalene	µg/kg	-	-	-	-	-	-	-	-	-	-	**13**
N-Nitrosodiphenylamine	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Pentachlorophenol	µg/kg	-	-	-	-	-	-	-	-	-	-	160 U
Phenanthrene	µg/kg	-	-	-	-	-	-	-	-	-	-	**370**
Phenol	µg/kg	-	-	-	-	-	-	-	-	-	-	55 U
Pyrene	µg/kg	-	-	-	-	-	-	-	-	-	-	**1100**
Metals												
Aluminum	mg/kg	-	-	-	-	-	-	-	-	-	-	**4380**
Antimony	mg/kg	-	-	-	-	-	-	-	-	-	-	**0.44 J**
Arsenic	mg/kg	-	-	-	-	-	-	-	-	-	-	**5.2 J**
Barium	mg/kg	-	-	-	-	-	-	-	-	-	-	**49.1**
Beryllium	mg/kg	-	-	-	-	-	-	-	-	-	-	**0.27 J**
Cadmium	mg/kg	-	-	-	-	-	-	-	-	-	-	**0.28 J**
Calcium	mg/kg	-	-	-	-	-	-	-	-	-	-	**47600**
Chromium	mg/kg	-	-	-	-	-	-	-	-	-	-	**8.7 J**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	-	-	-	-	-	-	-	-	-	-	**2.9 J**
Copper	mg/kg	-	-	-	-	-	-	-	-	-	-	**22.0**
Iron	mg/kg	-	-	-	-	-	-	-	-	-	-	**8520**
Lead	mg/kg	-	-	-	-	-	-	-	-	-	-	**32.2**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	-	-	-	-	-	-	-	-	-	-	**15800**
Manganese	mg/kg	-	-	-	-	-	-	-	-	-	-	**321**
Mercury	mg/kg	-	-	-	-	-	-	-	-	-	-	**0.048 J**
Nickel	mg/kg	-	-	-	-	-	-	-	-	-	-	**9.1**
Potassium	mg/kg	-	-	-	-	-	-	-	-	-	-	**533 J**
Selenium	mg/kg	-	-	-	-	-	-	-	-	-	-	27.3 U
Silver	mg/kg	-	-	-	-	-	-	-	-	-	-	1.1 U

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**SS-183-AS**	**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**	**SS-192-AS**	**TP-1**
Sample ID:		**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	-	-	-	-	-	-	-	-	-	-	547 U
Thallium	mg/kg	-	-	-	-	-	-	-	-	-	-	**0.15**
Vanadium	mg/kg	-	-	-	-	-	-	-	-	-	-	**10.9**
Zinc	mg/kg	-	-	-	-	-	-	-	-	-	-	**60.0 J**
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	-	-	-	-	-	-	-	-	-	-	36 U
Aroclor-1242 (PCB-1242)	µg/kg	-	-	-	-	-	-	-	-	-	-	36 U
Aroclor-1248 (PCB-1248)	µg/kg	-	-	-	-	-	-	-	-	-	-	36 U
Aroclor-1254 (PCB-1254)	µg/kg	-	-	-	-	-	-	-	-	-	-	36 U
Aroclor-1260 (PCB-1260)	µg/kg	-	-	-	-	-	-	-	-	-	-	36 U
Pesticides												
4,4'-DDD	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
4,4'-DDE	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
4,4'-DDT	µg/kg	-	-	-	-	-	-	-	-	-	-	93 UJ
alpha-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
alpha-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
beta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
delta-BHC	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Dieldrin	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Endosulfan I	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Endosulfan II	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Endosulfan sulfate	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Endrin	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Endrin aldehyde	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Endrin ketone	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
gamma-BHC (lindane)	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
gamma-Chlordane	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Heptachlor epoxide	µg/kg	-	-	-	-	-	-	-	-	-	-	93 U
Methoxychlor	µg/kg	-	-	-	-	-	-	-	-	-	-	180 U
Herbicides												
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	22 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**SS-183-AS**	**SS-184-AS**	**SS-185-AS**	**SS-186-AS**	**SS-187-AS**	**SS-188-AS**	**SS-189-AS**	**SS-190-AS**	**SS-191-AS**	**SS-192-AS**	**TP-1**
Sample ID:		**SS-38443-111618-JC-183**	**SS-38443-111618-JC-184**	**SS-38443-111618-JC-185**	**SS-38443-111918-JC-186**	**SS-38443-111618-JC-187**	**SS-38443-101618-JC-188**	**SS-38443-111618-JC-189**	**SS-38443-111918-JC-190**	**SS-38443-111618-JC-191**	**SS-38443-111618-JC-192**	**S-38443-092308-KMV-004**
Sample Date:		**11/16/2018**	**11/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**10/16/2018**	**11/16/2018**	**11/19/2018**	**11/16/2018**	**11/16/2018**	**9/23/2008**
Sample Depth:		**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**0-0.5 ft BGS**	**4 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	0.25 <	0.25 <	**0.25**	-	0.25 <	**0.5**	0.25 <	0.25 <	-	0.25 <	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	-	-	-	-	-	-	-	-	-	-	0.55 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	**91.5**

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TP-1**	**TP-1**	**TP-1**	**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-4**
Sample ID:		**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**
Sample Date:		**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**	**5 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	**2.1 J**	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,1,2-Trichloroethane	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,1-Dichloroethane	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	**220 J**	-	18000 U	11 U
1,1-Dichloroethene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,2,4-Trichlorobenzene	µg/kg	6.2 U	7.0 U	6.0 UJ	4.8 U	R	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,2-Dichlorobenzene	µg/kg	6.2 U	7.0 U	6.0 UJ	4.8 U	R	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,2-Dichloroethane	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,3-Dichlorobenzene	µg/kg	6.2 U	7.0 U	6.0 UJ	4.8 U	R	4.9 U	320 U	390 UJ	-	18000 U	11 U
1,4-Dichlorobenzene	µg/kg	6.2 U	7.0 U	**0.87 J**	4.8 U	**2.0 J**	4.9 U	320 U	390 UJ	-	18000 U	11 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	**3.4 J**	**4.4 J**	24 U	19 U	34 UJ	20 U	**1900**	**230 J**	-	72000 U	46 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	25 U	28 U	24 U	19 U	34 UJ	20 U	1300 U	1500 UJ	-	72000 U	46 U
Acetone	µg/kg	**9.3 J**	**13 J**	24 U	19 U	34 UJ	20 U	1300 U	1500 UJ	-	72000 U	46 U
Benzene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	**23 J**	**21 J**	-	18000 U	11 U
Carbon disulfide	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Carbon tetrachloride	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Chlorobenzene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	**3.3 J**	**930**	**8500 J**	-	**560000**	11 U
Chloroethane	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Chloroform (Trichloromethane)	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
cis-1,2-Dichloroethene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Cyclohexane	µg/kg	12 U	14 U	12 U	9.6 U	17 UJ	9.9 U	**78 J**	**71 J**	-	36000 U	23 U
Ethylbenzene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	**25 J**	**31 J**	-	18000 U	11 U
Isopropyl benzene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	**75 J**	390 UJ	-	18000 U	11 U
Methyl acetate	µg/kg	12 U	14 U	12 U	9.6 U	17 UJ	9.9 U	**220 J**	**170 J**	-	36000 U	23 U
Methyl cyclohexane	µg/kg	12 U	14 U	12 U	9.6 U	17 UJ	9.9 U	**130 J**	**110 J**	-	36000 U	23 U
Methyl tert butyl ether (MTBE)	µg/kg	25 U	28 U	24 U	19 U	34 UJ	20 U	1300 U	1500 UJ	-	72000 U	46 U
Methylene chloride	µg/kg	6.2 U	**2.6 J**	6.0 U	4.8 U	**7.7 J**	4.9 U	320 U	390 UJ	-	18000 U	11 U
Styrene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 UJ	390 UJ	-	18000 UJ	11 U
Tetrachloroethene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	**25 J**	-	18000 U	11 U
Toluene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	**69 J**	**54 J**	-	18000 U	11 U
trans-1,2-Dichloroethene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Trichloroethene	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Trichlorofluoromethane (CFC-11)	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Trifluorotrichloroethane (CFC-113)	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	**21 J**	4.9 U	320 U	390 UJ	-	18000 U	11 U
Vinyl chloride	µg/kg	6.2 U	7.0 U	6.0 U	4.8 U	8.5 UJ	4.9 U	320 U	390 UJ	-	18000 U	11 U
Xylenes (total)	µg/kg	12 U	14 U	12 U	9.6 U	17 UJ	9.9 U	**290 J**	**260 J**	-	36000 U	23 U
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	170 U	190 U	180 U	160 U	240 U	170 U	4200 U	4200 U	-	250 U	160 U
2-Chlorophenol	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	**50 J**	55 U
2-Methylnaphthalene	µg/kg	**12**	**16**	**28**	7.3 U	11 U	**13**	190 U	190 U	-	**31**	**36**
2-Methylphenol	µg/kg	230 U	260 U	240 U	220 U	320 U	220 U	5600 U	5600 U	-	330 U	220 U
3&4-Methylphenol	µg/kg	-	-	-	-	-	-	-	-	-	-	-
3,3'-Dichlorobenzidine	µg/kg	110 U	130 U	120 U	110 U	160 U	110 U	2800 U	2800 U	-	170 U	110 U
Acenaphthene	µg/kg	7.5 U	8.6 U	**14**	7.3 U	11 U	**18**	190 U	190 U	-	11 U	7.3 U
Acenaphthylene	µg/kg	7.5 U	8.6 U	**37**	7.3 U	11 U	7.4 U	190 U	190 U	-	11 U	7.3 U
Acetophenone	µg/kg	110 U	130 U	120 U	110 U	160 U	110 U	2800 U	2800 U	-	170 U	110 U
Anthracene	µg/kg	**8.6**	8.6 U	**39**	7.3 U	11 U	**45**	**430**	**500**	-	**57**	7.3 U
Benzaldehyde	µg/kg	110 U	130 U	120 U	110 U	160 U	110 U	2800 U	2800 U	-	170 U	110 U
Benzo(a)anthracene	µg/kg	7.5 U	8.6 U	**140**	**33**	11 U	**160**	**490**	190 U	-	**120**	**16**
Benzo(a)pyrene	µg/kg	7.5 U	8.6 U	**140**	**35**	11 U	**120**	**320**	190 U	-	**88**	**13**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TP-1**	**TP-1**	**TP-1**	**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-4**
Sample ID:		**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**
Sample Date:		**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**	**5 ft BGS**
Parameters	**Units**											
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	7.5 U	8.6 U	**180 J**	**46**	11 U	**180**	**530**	190 U	-	**120**	**21**
Benzo(g,h,i)perylene	µg/kg	7.5 U	8.6 U	**120 J**	**22**	11 U	**97**	**200**	190 U	-	**55**	**11**
Benzo(k)fluoranthene	µg/kg	7.5 U	8.6 U	**52**	**21**	11 U	**85**	**200**	190 U	-	**41**	7.3 U
Biphenyl (1,1-Biphenyl)	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	57 U	**46 J**	**110**	55 U	79 U	**32 J**	**3800**	**6200**	-	**82 J**	55 U
Butyl benzylphthalate (BBP)	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Caprolactam	µg/kg	370 U	430 U	400 U	360 U	520 U	370 U	9200 U	9200 U	-	550 U	360 U
Carbazole	µg/kg	57 U	65 U	60 U	55 U	79 U	**31 J**	1400 U	1400 U	-	84 U	55 U
Chrysene	µg/kg	7.5 U	**11**	**150**	**41**	11 U	**140**	**620**	**360**	-	**110**	**18**
Dibenz(a,h)anthracene	µg/kg	7.5 U	8.6 U	**22**	7.3 U	11 U	**23**	190 U	190 U	-	**12**	7.3 U
Dibenzofuran	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Diethyl phthalate	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Dimethyl phthalate	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	**2000**	1400 U	-	84 U	55 U
Di-n-butylphthalate (DBP)	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Di-n-octyl phthalate (DnOP)	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Fluoranthene	µg/kg	**18**	**15**	**230 J**	**73**	11 U	**360**	**1600**	**720**	-	**270**	**30**
Fluorene	µg/kg	**9.3**	8.6 U	**23**	7.3 U	11 U	**16**	**1700**	**3900**	-	11 U	7.3 U
Hexachlorobenzene	µg/kg	7.5 U	8.6 U	8.0 U	7.3 U	11 U	7.4 U	190 U	190 U	-	11 U	7.3 U
Hexachlorobutadiene	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Indeno(1,2,3-cd)pyrene	µg/kg	7.5 U	8.6 U	**73 J**	**20**	11 U	**78**	190 U	190 U	-	**41**	**8.1**
Isophorone	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Naphthalene	µg/kg	7.5 U	**8.7**	**21**	7.3 U	11 U	**10**	190 U	190 U	-	**22**	**27**
N-Nitrosodiphenylamine	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Pentachlorophenol	µg/kg	170 U	190 U	180 U	160 U	240 U	170 U	4200 U	4200 U	-	250 U	160 U
Phenanthrene	µg/kg	**25**	**14**	**140**	**26**	11 U	**210**	**2100**	**2700**	-	**180**	**32**
Phenol	µg/kg	57 U	65 U	60 U	55 U	79 U	56 U	1400 U	1400 U	-	84 U	55 U
Pyrene	µg/kg	**15**	**16**	**250**	**61**	11 U	**270**	**1000**	**630**	-	**210**	**24**
Metals												
Aluminum	mg/kg	**7780**	**7800**	**5540**	**6250**	**5620**	**4610**	**4500**	**3740**	-	**3640**	**1050**
Antimony	mg/kg	**0.78 J**	**4.2 J**	**1.1 J**	6.6 U	9.5 U	6.7 U	6.7 U	**16.1**	-	10.0 U	6.6 U
Arsenic	mg/kg	**35.4 J**	**43.2 J**	**14.9 J**	**8.3**	**22.6**	**8.9**	**9.1**	**8.6**	-	**10**	**2.4**
Barium	mg/kg	**172**	**215**	**98.8**	**56.7**	**173**	**54.7**	**180**	**279**	-	**215**	**59.4**
Beryllium	mg/kg	**1.8 J**	**2.1 J**	**1.1 J**	**0.32 J**	**2.7 J**	**0.18 J**	**0.38 J**	**0.73 J**	-	**1.5 J**	**0.18 J**
Cadmium	mg/kg	**0.35 J**	**0.39 J**	**0.42 J**	**0.29 J**	**0.20 J**	**0.89**	**6.2**	**4.7**	-	**0.22 J**	**0.069 J**
Calcium	mg/kg	**16800**	**12500**	**57500**	**38700**	**1360**	**55100**	**55700**	**36500**	-	**2350**	**6700**
Chromium	mg/kg	**20.0 J**	**21.8 J**	**15.0 J**	**9.9**	**14.9**	**73.2**	**59.6**	**28.5**	-	**4.3**	**2.5**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**6.6 J**	**6.4 J**	**4.8 J**	**5.1 J**	**8.1**	**7.4**	**6.7**	**7.1**	-	**4.2 J**	**2.4 J**
Copper	mg/kg	**28.0**	**34.5**	**25.8**	**15.8**	**34.4**	**147**	**446**	**4030**	-	**31.7**	**7.9**
Iron	mg/kg	**13400**	**16000**	**12500**	**13500**	**4960**	**49400**	**36700**	**33800**	-	**11200**	**2190**
Lead	mg/kg	**15.5**	**23.1**	**17.7**	**17.3**	**14.3 J**	**47.0**	**316**	**1390**	-	**7.8 J**	**3.7 J**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**6050**	**4540**	**33400**	**18600**	**489 J**	**19300**	**31900**	**11500**	-	**587 J**	**2770**
Manganese	mg/kg	**66.4**	**79.3**	**136**	**445**	**64.0**	**542**	**386**	**222**	-	**22.2**	**36.8**
Mercury	mg/kg	**0.072 J**	**0.054 J**	**0.068 J**	**0.079 J**	**0.16**	**0.084 J**	**0.068 J**	**0.089 J**	-	0.17 U	0.11 U
Nickel	mg/kg	**14.6**	**16.3**	**11.9**	**11.8**	**16.6**	**46.7**	**52.1**	**58.5**	-	**14.3**	**4.5**
Potassium	mg/kg	**1290**	**1220**	**908**	**735**	**1250**	**788**	**747**	**624 J**	-	**781 J**	**160 J**
Selenium	mg/kg	**6.6 J**	**8.9 J**	**7.2 J**	27.5 U	**7.9 J**	27.8 U	27.9 U	34.9 U	-	41.9 U	27.5 U
Silver	mg/kg	1.1 U	1.3 U	1.2 U	1.1 U	1.6 U	**0.15 J**	**0.20 J**	**0.78 J**	-	1.7 U	**0.11 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TP-1**	**TP-1**	**TP-1**	**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-4**
Sample ID:		**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**
Sample Date:		**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**	**5 ft BGS**
Parameters	**Units**											
Metals (cont'd)												
Sodium	mg/kg	566 U	646 U	602 U	550 U	791 U	**103 J**	**131 J**	**185 J**	-	**175 J**	550 U
Thallium	mg/kg	**1.8**	**2.0**	**1.2**	**0.17**	**0.61**	**0.15**	**0.17**	0.70 U	-	**0.19**	0.11 U
Vanadium	mg/kg	**39.7**	**41.9**	**30.2**	**17.1**	**48.6**	**16.0**	**19.4**	**22.5**	-	**15.6**	**6.4**
Zinc	mg/kg	**30.8 J**	**37.6 J**	**40.1 J**	**53.7 J**	**20.7 J**	**97.6 J**	**189 J**	**259 J**	-	**18.4 J**	**7.7 J**
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	190 U	210 U	200 U	36 U	52 U	37 U	37 U	46 U	-	55 U	36 U
Aroclor-1242 (PCB-1242)	µg/kg	190 U	210 U	200 U	36 U	52 U	37 U	37 U	46 U	-	55 U	36 U
Aroclor-1248 (PCB-1248)	µg/kg	**1000**	**990**	**2700**	36 U	52 U	37 U	37 U	46 U	-	55 U	36 U
Aroclor-1254 (PCB-1254)	µg/kg	190 U	210 U	200 U	36 U	52 U	37 U	37 U	**80**	-	55 U	36 U
Aroclor-1260 (PCB-1260)	µg/kg	**160 J**	**180 J**	**270**	**23 J**	**47 J**	**86**	**110 J**	46 U	-	55 U	36 U
Pesticides												
4,4'-DDD	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
4,4'-DDE	µg/kg	**46 J**	**27 J**	**69 J**	9.3 U	2.7 U	**8.4 J**	95 U	**12 J**	-	**16 J**	**12 J**
4,4'-DDT	µg/kg	96 UJ	110 UJ	100 UJ	9.3 UJ	2.7 UJ	19 UJ	95 U	24 UJ	-	28 UJ	37 UJ
alpha-BHC	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
alpha-Chlordane	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
beta-BHC	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
delta-BHC	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Dieldrin	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Endosulfan I	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Endosulfan II	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Endosulfan sulfate	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Endrin	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Endrin aldehyde	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Endrin ketone	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
gamma-BHC (lindane)	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
gamma-Chlordane	µg/kg	**43 J**	**36 J**	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Heptachlor epoxide	µg/kg	96 U	110 U	100 U	9.3 U	2.7 U	19 U	95 U	24 U	-	28 U	37 U
Methoxychlor	µg/kg	190 U	210 U	200 U	18 UJ	5.2 UJ	37 UJ	180 U	46 UJ	-	55 UJ	73 UJ
Herbicides												
2,4,5-TP (Silvex)	µg/kg	23 U	26 U	24 U	22 U	32 U	22 U	22 U	28 U	-	170 U	22 U
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TP-1**	**TP-1**	**TP-1**	**TP-2**	**TP-2**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-3**	**TP-4**
Sample ID:		**S-38443-092308-KMV-003**	**S-38443-092308-KMV-002**	**S-38443-092308-KMV-001**	**S-38443-092408-KMV-005**	**S-38443-092408-KMV-006**	**S-38443-092408-KMV-007**	**S-38443-092408-KMV-008**	**S-38443-092408-KMV-009**	**F-38443-092408-KMV-010**	**S-38443-092408-KMV-011**	**S-38443-092408-KMV-012**
Sample Date:		**9/23/2008**	**9/23/2008**	**9/23/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**	**9/24/2008**
Sample Depth:		**6 ft BGS**	**8 ft BGS**	**13 ft BGS**	**1 ft BGS**	**5 ft BGS**	**4 ft BGS**	**8.7 ft BGS**	**10.4 ft BGS**	**13.5 ft BGS**	**16 ft BGS**	**5 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	-	-	-	-	-	-	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	-
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.57 U	0.65 U	0.60 U	0.55 U	0.79 U	0.56 U	**0.20 J**	**0.58 J**	-	0.84 U	0.55 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**88.4**	**77.4**	**83.0**	**91.0**	**63.3**	**90.1**	**89.6**	**71.6**	-	**59.7**	**91.0**

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**	**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**
Sample ID:		**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**
Sample Date:		**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**
Sample Depth:		**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS Duplicate**	**8-10 ft BGS**
Parameters	**Units**											
Volatiles												
1,1,1-Trichloroethane	µg/kg	11 U	6.9 U	**6.8 J**	**35 J**	29 U	0.39 UJ	R	0.30 U	5.0 U	4.8 U	-
1,1,2-Trichloroethane	µg/kg	11 U	6.9 U	0.67 UJ	29 U	24 U	R	R	0.50 U	5.0 U	4.8 U	-
1,1-Dichloroethane	µg/kg	11 U	**1.0 J**	0.57 U	**490**	**45 J**	0.56 UJ	R	0.43 U	5.0 U	4.8 U	-
1,1-Dichloroethene	µg/kg	11 U	6.9 U	0.93 U	45 U	37 U	0.92 UJ	R	0.70 U	5.0 U	4.8 U	-
1,2,4-Trichlorobenzene	µg/kg	11 U	6.9 U	R	32 U	27 U	R	R	0.31 U	5.0 U	4.8 U	-
1,2-Dichlorobenzene	µg/kg	11 U	6.9 U	R	22 U	19 U	R	R	0.28 U	5.0 U	4.8 U	-
1,2-Dichloroethane	µg/kg	11 U	6.9 U	0.50 U	37 U	31 U	0.49 UJ	R	0.37 U	5.0 U	4.8 U	-
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	11 U	6.9 U	0.53 U	37 U	31 U	0.53 UJ	R	0.40 U	5.0 U	4.8 U	-
1,3-Dichlorobenzene	µg/kg	11 U	6.9 U	R	47 U	39 U	R	R	0.37 U	5.0 U	4.8 U	-
1,4-Dichlorobenzene	µg/kg	11 U	6.9 U	R	34 U	28 U	R	R	0.45 U	5.0 U	4.8 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	43 U	27 U	2.2 U	**93 J**	**58 J**	**4.9 J**	**4.0 J**	1.6 U	20 U	19 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	43 U	27 U	1.5 UJ	**150 J**	41 U	R	R	1.1 U	20 U	19 U	-
Acetone	µg/kg	43 U	**19 J**	5.3 U	120 U	100 U	5.2 UJ	R	3.9 U	20 U	19 U	-
Benzene	µg/kg	11 U	6.9 U	0.55 U	**63 J**	25 U	0.54 UJ	R	0.41 U	5.0 U	4.8 U	-
Carbon disulfide	µg/kg	11 U	6.9 U	0.36 U	22 U	19 U	**0.60 J**	**0.54 J**	0.27 U	5.0 U	4.8 U	-
Carbon tetrachloride	µg/kg	11 U	6.9 U	0.43 U	34 U	28 U	0.43 UJ	R	0.32 U	5.0 U	4.8 U	-
Chlorobenzene	µg/kg	11 U	6.9 U	0.57 UJ	**1600**	**1300**	R	**4.3 J**	0.43 U	5.0 U	4.8 U	-
Chloroethane	µg/kg	11 U	6.9 U	0.65 U	35 U	29 U	0.65 UJ	R	0.49 U	5.0 U	4.8 U	-
Chloroform (Trichloromethane)	µg/kg	11 U	6.9 U	0.40 U	30 U	25 U	0.39 UJ	R	0.30 U	5.0 U	4.8 U	-
cis-1,2-Dichloroethene	µg/kg	11 U	6.9 U	0.48 U	44 U	**47 J**	0.48 UJ	R	0.36 U	5.0 U	4.8 U	-
Cyclohexane	µg/kg	21 U	14 U	0.36 U	**66 J**	31 U	0.36 UJ	R	0.27 U	10 U	9.5 U	-
Ethylbenzene	µg/kg	11 U	6.9 U	0.46 UJ	**280 J**	**270**	R	R	0.35 U	5.0 U	4.8 U	-
Isopropyl benzene	µg/kg	11 U	6.9 U	0.34 UJ	**1800**	**1200**	R	R	0.26 U	5.0 U	4.8 U	-
Methyl acetate	µg/kg	21 U	14 U	2.0 U	**210 J**	**190 J**	2.0 UJ	R	1.5 U	10 U	9.5 U	-
Methyl cyclohexane	µg/kg	21 U	**1.1 J**	0.40 U	**220 J**	**66 J**	0.39 UJ	R	0.30 U	10 U	9.5 U	-
Methyl tert butyl ether (MTBE)	µg/kg	43 U	27 U	0.46 U	32 U	27 U	0.46 UJ	R	0.35 U	20 U	19 U	-
Methylene chloride	µg/kg	**3.6 J**	**1.5 J**	0.41 U	81 U	67 U	0.41 UJ	R	0.31 U	5.0 U	4.8 U	-
Styrene	µg/kg	11 U	6.9 U	0.46 UJ	12 U	10 U	R	R	0.35 U	5.0 U	4.8 U	-
Tetrachloroethene	µg/kg	11 U	6.9 U	**51 J**	**53 J**	22 U	R	R	0.48 U	5.0 U	4.8 U	-
Toluene	µg/kg	**1.2 J**	6.9 U	0.58 U	**1000**	**1400**	**0.70 J**	**0.42 J**	0.44 U	5.0 U	4.8 U	-
trans-1,2-Dichloroethene	µg/kg	11 U	6.9 U	0.65 U	44 U	36 U	0.65 UJ	R	0.49 U	5.0 U	4.8 U	-
Trichloroethene	µg/kg	11 U	6.9 U	**4.0 J**	46 U	38 U	0.70 UJ	R	0.53 U	5.0 U	4.8 U	-
Trichlorofluoromethane (CFC-11)	µg/kg	11 U	6.9 U	0.41 U	42 U	35 U	0.41 UJ	R	0.31 U	5.0 U	4.8 U	-
Trifluorotrichloroethane (CFC-113)	µg/kg	11 U	6.9 U	0.84 U	29 U	24 U	R	R	0.63 U	5.0 U	4.8 U	-
Vinyl chloride	µg/kg	11 U	6.9 U	0.48 U	21 U	18 U	0.48 UJ	R	0.36 U	5.0 U	4.8 U	-
Xylenes (total)	µg/kg	**2.6 J**	14 U	0.69 UJ	**1600**	**1300**	R	R	0.52 U	10 U	9.5 U	-
Semi-Volatiles												
2,4-Dimethylphenol	µg/kg	170 U	900 U	210 U	2200 U	1100 U	**33 J**	24 U	21 U	1700 U	1700 U	-
2-Chlorophenol	µg/kg	56 U	300 U	88 U	880 U	440 U	9.9 U	9.8 U	8.7 U	570 U	580 U	-
2-Methylnaphthalene	µg/kg	**1100**	**120**	**530**	**600 J**	**1600**	**440**	**130**	**9.0**	77 U	77 U	-
2-Methylphenol	µg/kg	230 U	1200 U	120 U	1200 U	590 U	**15 J**	**20 J**	12 U	2300 U	2300 U	-
3&4-Methylphenol	µg/kg	-	-	210 U	2200 U	1100 U	**29 J**	**28 J**	21 U	-	-	-
3,3'-Dichlorobenzidine	µg/kg	110 U	600 U	190 U	1900 U	970 U	22 U	21 U	19 U	1100 U	1200 U	-
Acenaphthene	µg/kg	7.5 U	40 U	**190**	82 U	41 U	**43**	**23**	0.81 U	77 U	77 U	-
Acenaphthylene	µg/kg	7.5 U	40 U	**53 J**	38 U	19 U	**17**	**31**	**11**	77 U	77 U	-
Acetophenone	µg/kg	110 U	600 U	98 U	990 U	**940 J**	**43 J**	**19 J**	9.8 U	1100 U	1200 U	-
Anthracene	µg/kg	7.5 U	40 U	**370**	84 U	**350 J**	**27**	**36**	**16**	77 U	77 U	-
Benzaldehyde	µg/kg	110 U	600 U	130 U	1300 U	650 U	**38 J**	**21 J**	13 U	1100 U	1200 U	-
Benzo(a)anthracene	µg/kg	**100**	40 U	**1100**	68 U	**450**	**61**	**130**	**86**	77 U	77 U	-
Benzo(a)pyrene	µg/kg	**44**	40 U	**1000**	69 U	35 U	**46**	**120**	**97**	77 U	77 U	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**	**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**
Sample ID:		**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**
Sample Date:		**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**
Sample Depth:		**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					**Duplicate**					**Duplicate**	
Semi-Volatiles (cont'd)												
Benzo(b)fluoranthene	µg/kg	**110**	**68**	**1400**	64 U	32 U	**72**	**170**	**170**	77 U	77 U	-
Benzo(g,h,i)perylene	µg/kg	**47**	40 U	**780**	38 U	19 U	**44**	**98**	**48**	77 U	77 U	-
Benzo(k)fluoranthene	µg/kg	7.5 U	40 U	**510**	73 U	37 U	**21**	**77**	**67**	77 U	77 U	-
Biphenyl (1,1-Biphenyl)	µg/kg	**64**	300 U	**95 J**	380 U	190 U	**45 J**	**17 J**	3.7 U	570 U	580 U	-
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	56 U	**160 J**	**230 J**	4400 U	**4000**	**67 J**	**75 J**	45 U	570 U	580 U	-
Butyl benzylphthalate (BBP)	µg/kg	56 U	300 U	110 U	1100 U	540 U	12 U	12 U	11 U	570 U	580 U	-
Caprolactam	µg/kg	370 U	2000 U	400 U	4000 U	2000 U	45 U	44 U	39 U	3800 U	3800 U	-
Carbazole	µg/kg	56 U	300 U	290 U	2900 U	1500 U	33 U	32 U	29 U	570 U	580 U	-
Chrysene	µg/kg	**120**	40 U	**1200**	120 U	**610**	**89**	**160**	**91**	77 U	77 U	-
Dibenz(a,h)anthracene	µg/kg	7.5 U	40 U	**230**	71 U	36 U	**15**	**26**	0.70 U	77 U	77 U	-
Dibenzofuran	µg/kg	**310**	300 U	**220 J**	71 U	**470 J**	**120**	**40 J**	0.70 U	570 U	580 U	-
Diethyl phthalate	µg/kg	56 U	300 U	**530 J**	1700 U	860 U	19 U	19 U	17 U	570 U	580 U	-
Dimethyl phthalate	µg/kg	56 U	300 U	180 U	1800 U	920 U	21 U	20 U	18 U	570 U	580 U	-
Di-n-butylphthalate (DBP)	µg/kg	56 U	300 U	160 U	1600 U	810 U	18 U	18 U	**28 J**	570 U	580 U	-
Di-n-octyl phthalate (DnOP)	µg/kg	56 U	300 U	84 U	850 U	430 U	9.6 U	9.4 U	8.4 U	570 U	580 U	-
Fluoranthene	µg/kg	**120**	**110**	**2300**	**1100**	**2100**	**100**	**290**	**150**	**120**	**110**	-
Fluorene	µg/kg	7.5 U	40 U	**180**	57 U	**920**	**63**	**26**	**4.8 J**	77 U	77 U	-
Hexachlorobenzene	µg/kg	7.5 U	40 U	22 U	230 U	110 U	2.5 U	2.5 UJ	2.2 U	77 U	77 U	-
Hexachlorobutadiene	µg/kg	56 U	300 U	60 U	600 U	300 U	6.8 U	6.7 U	5.9 U	570 U	580 U	-
Indeno(1,2,3-cd)pyrene	µg/kg	**19**	40 U	**650**	38 U	19 U	**22**	**78**	**37**	77 U	77 U	-
Isophorone	µg/kg	56 U	300 U	140 U	1400 U	700 U	16 U	15 U	14 U	570 U	580 U	-
Naphthalene	µg/kg	**620**	**64**	**400**	**510 J**	**3100 J**	**230**	**76**	**8.0**	77 U	77 U	-
N-Nitrosodiphenylamine	µg/kg	56 U	300 U	220 U	2300 U	1100 U	25 U	25 U	22 U	570 U	580 U	-
Pentachlorophenol	µg/kg	170 U	900 U	97 U	980 U	490 U	11 U	11 UJ	9.7 U	1700 U	1700 U	-
Phenanthrene	µg/kg	**610**	**110**	**1600**	**1700 J**	**4000 J**	**360**	**230**	**61**	77 U	77 U	-
Phenol	µg/kg	56 U	300 U	**310 J**	790 U	**390 J**	8.9 U	**27 J**	7.7 U	570 U	580 U	-
Pyrene	µg/kg	**120**	**110**	**1900**	**1000**	**1900**	**110**	**270**	**170**	**89**	**78**	-
Metals												
Aluminum	mg/kg	**2210**	**5440**	**4300 J**	**1900 J**	**1800 J**	**5300 J**	**5800 J**	**3000 J**	**3670**	**3990**	-
Antimony	mg/kg	6.8 U	**56.6**	**2.4 J**	**4.4 J**	**1.1 J**	**0.28 J**	**0.37 J**	**0.18 J**	34.4 UJ	34.5 UJ	-
Arsenic	mg/kg	**5.5**	**14.3**	**15**	**6.0**	**5.5**	**12**	**12**	**4.0**	**11.0 J**	**7.2 J**	-
Barium	mg/kg	**189**	**1180**	**960**	**150 J**	**200 J**	**120**	**130**	**31**	**31.8**	**27.7**	-
Beryllium	mg/kg	**0.46 J**	**0.37 J**	**0.80**	**0.49**	**0.46**	**1.4**	**0.67**	**0.18**	**0.088 J**	**0.099 J**	-
Cadmium	mg/kg	**0.096 J**	**11.4**	**1.2**	**0.55**	**0.43**	**0.21**	**5.1**	**0.17**	**4.5**	**3.4**	-
Calcium	mg/kg	**1980**	**47100**	**78000**	**3500**	**1400**	**46000**	**65000**	**120000**	**15100**	**20200**	-
Chromium	mg/kg	**6.2**	**65.8**	**280**	**25**	**24**	**11**	**12**	**6.0**	**132 J**	**75.6 J**	-
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**5.6**	**14.2**	**10**	**3.2**	**3.8**	**7.1**	**5.3**	**3.2**	**9.6 J**	**7.0 J**	-
Copper	mg/kg	**20.8**	**626**	**1700**	**690**	**270**	**27**	**72**	**14**	**163**	**108**	-
Iron	mg/kg	**1860**	**38900**	**31000**	**21000**	**24000**	**9300**	**10000**	**8400**	**124000**	**77000**	-
Lead	mg/kg	**7.6 J**	**549**	**2000**	**270 J**	**250 J**	**20**	**180**	**23**	**70.4**	**64.2**	-
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**419 J**	**9910**	**40000**	**930**	**510**	**21000**	**25000**	**45000**	**7050**	**11000**	-
Manganese	mg/kg	**6.9**	**364**	**380 J**	**190**	**160**	**140 J**	**270 J**	**280 J**	**2200**	**1690**	-
Mercury	mg/kg	**0.058 J**	**0.17**	**0.12**	**0.026 J**	**0.053 J**	**0.15**	**0.064 J**	**0.039 J**	**0.023 J**	**0.023 J**	-
Nickel	mg/kg	**11.3**	**95.8**	**120**	**70 J**	**49 J**	**15**	**20**	**7.5**	**105**	**57.8**	-
Potassium	mg/kg	**980**	**683**	**630**	**330**	**280**	**1100**	**610**	**410**	**388 J**	**375 J**	-
Selenium	mg/kg	**1.1 J**	**0.64 J**	**1.3**	0.63 U	0.64 U	**2.4**	**4.3**	0.70 U	143 U	144 U	-
Silver	mg/kg	1.1 U	**1.9**	**0.29**	**0.18**	**0.14 J**	**0.044 J**	**0.062 J**	**0.024 J**	1.1 U	1.2 U	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**	**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**
Sample ID:		**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**
Sample Date:		**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**
Sample Depth:		**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS**	**8-10 ft BGS**
Parameters	**Units**					**Duplicate**					**Duplicate**	
Metals (cont'd)												
Sodium	mg/kg	**92.4 J**	**527 J**	170 U	**150**	140 U	170 U	140 U	130 U	574 U	575 U	-
Thallium	mg/kg	**0.27**	**0.16**	**0.43**	**0.091 J**	**0.11 J**	**0.51**	**0.40 J**	**0.098 J**	0.11 U	0.12 U	-
Vanadium	mg/kg	**16.6**	**19.0**	**20**	**6.2**	**14**	**22**	**19**	**11**	**11.8 J**	**13.1 J**	-
Zinc	mg/kg	**12.7 J**	**1030 J**	**510**	**150**	**190**	**37**	**310**	**34**	**430 J**	**353 J**	-
PCBs												
Aroclor-1232 (PCB-1232)	µg/kg	37 U	40 U	17 UJ	180 U	85 U	98 U	19 U	17 UJ	38 U	38 U	-
Aroclor-1242 (PCB-1242)	µg/kg	37 U	40 U	21 UJ	220 U	110 U	120 U	24 U	21 UJ	38 U	38 U	-
Aroclor-1248 (PCB-1248)	µg/kg	37 U	40 U	18 UJ	190 U	91 U	**2700**	20 U	18 UJ	38 U	38 U	-
Aroclor-1254 (PCB-1254)	µg/kg	37 U	**140**	**290 J**	**8400 J**	**2500 J**	86 U	**28 J**	15 U	38 U	38 U	-
Aroclor-1260 (PCB-1260)	µg/kg	37 U	40 U	19 U	200 U	96 U	110 U	22 U	19 U	**35 J**	38 U	-
Pesticides												
4,4'-DDD	µg/kg	38 U	41 U	17 U	70 U	72 U	40 U	19 U	3.6 U	39 U	39 U	-
4,4'-DDE	µg/kg	**17 J**	**17 J**	**16 NJ**	25 U	26 U	15 U	6.9 U	1.3 U	39 U	39 U	-
4,4'-DDT	µg/kg	38 U	41 UJ	**23 J**	30 U	30 U	17 U	8.1 U	1.5 U	39 U	39 U	-
alpha-BHC	µg/kg	38 U	41 U	8.4 U	34 U	35 U	19 U	9.2 U	1.7 U	39 U	39 U	-
alpha-Chlordane	µg/kg	38 U	41 U	20 U	80 U	83 U	46 U	22 U	4.1 U	39 U	39 U	-
beta-BHC	µg/kg	38 U	41 U	20 U	82 U	85 U	47 U	22 U	4.2 U	39 U	39 U	-
delta-BHC	µg/kg	38 U	41 U	6.8 U	27 U	28 U	16 U	7.5 U	1.4 U	39 U	39 U	-
Dieldrin	µg/kg	**24 J**	41 U	4.7 U	19 U	20 U	11 U	5.2 U	0.97 U	39 U	39 U	-
Endosulfan I	µg/kg	38 U	41 U	6.8 U	27 U	28 U	16 U	7.5 U	1.4 U	39 U	39 U	-
Endosulfan II	µg/kg	**22 J**	41 U	9.4 U	38 U	39 U	22 U	10 U	1.9 U	39 U	39 U	-
Endosulfan sulfate	µg/kg	38 U	41 U	6.3 U	25 U	26 U	15 U	6.9 U	1.3 U	39 U	39 U	-
Endrin	µg/kg	38 U	41 U	7.3 U	30 U	30 U	17 U	8.1 U	1.5 U	39 U	39 U	-
Endrin aldehyde	µg/kg	38 U	41 U	9.4 U	38 U	39 U	22 U	10 U	1.9 U	39 U	39 U	-
Endrin ketone	µg/kg	38 U	41 U	5.8 U	23 U	24 U	13 U	6.3 U	1.2 U	39 U	39 U	-
gamma-BHC (lindane)	µg/kg	38 U	41 U	15 U	61 U	63 U	35 U	17 U	3.1 U	39 U	39 U	-
gamma-Chlordane	µg/kg	38 U	41 U	7.8 U	32 U	33 U	18 U	8.7 U	1.6 U	39 U	39 U	-
Heptachlor epoxide	µg/kg	38 U	41 U	13 U	51 U	52 U	29 U	14 U	2.6 U	39 U	39 U	-
Methoxychlor	µg/kg	74 U	80 UJ	6.3 U	25 U	26 U	15 U	**9.5 J**	**2.1 J**	76 U	76 U	-
Herbicides												
2,4,5-TP (Silvex)	µg/kg	23 U	24 U	-	-	-	-	-	-	23 U	23 U	-
Petroleum Products												
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans												
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	-	-	**150**	9.2 U	11 U	7.4 U	-	**18**	-	-	-
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	-	-	**4500**	**350**	**550**	**71**	-	**220**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	**130**	**8.2 J**	**9.0 J**	**4.8 J**	-	**7.0**	-	-	-
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	**390**	**31**	**53**	**9.9**	-	**19**	-	-	-
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	-	-	**4.5 J**	0.55 U	**1.3 J**	**0.55 J**	-	**0.49 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	**17 J**	**5.8 J**	**6.7 J**	**2.9 J**	-	**1.9 J**	-	-	-
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	0.23 U	**1.2 J**	**1.9 J**	**0.41 J**	-	**0.34 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	**14 J**	**2.2 J**	**2.5 J**	**1.6 J**	-	**4.2 J**	-	-	-
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	**16 J**	**4.7 J**	**4.8 J**	**0.78 J**	-	**1.2 J**	-	-	-
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	1.7 U	0.31 U	0.31 U	0.094 U	-	0.049 U	-	-	-
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	**9.8 J**	**3.6 J**	**5.3 J**	**1.0 J**	-	**0.88 J**	-	-	-
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	**2.5 J**	**0.66 J**	**0.75 J**	**1.1 J**	-	0.064 U	-	-	-
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	**5.5 J**	**6.5 J**	**6.0 J**	**1.3 J**	-	**0.65 J**	-	-	-
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	-	-	**7.5 J**	**1.2 J**	**1.2 J**	**0.82 J**	-	**1.3 J**	-	-	-
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	-	-	**5.8 J**	**1.9 J**	**2.0 J**	**2.6 J**	-	**1.3 J**	-	-	-
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	-	-	**16**	**3.5**	**3.7**	**2.1 J**	-	**1.3**	-	-	-

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**TP-4**	**TP-4**	**TP-11**	**TP-12**	**TP-12**	**TP-14**	**TP-15**	**TP-16**	**TT-15**	**TT-15**	**TT-31**
Sample ID:		**S-38443-092408-KMV-013**	**S-38443-092408-KMV-014**	**S-38443-103117-BW-006**	**S-38443-110117-BW-009**	**S-38443-110117-BW-010**	**S-38443-103117-BW-004**	**S-38443-103017-BW-002**	**S-38443-103117-BW-008**	**S-38443-092508-KMV-016**	**S-38443-092508-KMV-016-D**	**TT-31**
Sample Date:		**9/24/2008**	**9/24/2008**	**10/31/2017**	**11/1/2017**	**11/1/2017**	**10/31/2017**	**10/30/2017**	**10/31/2017**	**9/25/2008**	**9/25/2008**	**11/7/2017**
Sample Depth:		**10 ft BGS**	**18.6 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS**	**8-10 ft BGS Duplicate**	**8-10 ft BGS**	**10-12 ft BGS**	**4-6 ft BGS**	**8.6 ft BGS**	**8.6 ft BGS Duplicate**	**8-10 ft BGS**
Parameters	**Units**											
Dioxin/Furans (cont'd)												
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	**0.74 J**	0.21 U	0.19 U	**0.17 J**	-	**0.27 J**	-	-	-
Total heptachlorodibenzofuran (HpCDF)	pg/g	-	-	**350 J**	**20 J**	**24 J**	**11 J**	-	**23 J**	-	-	-
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	-	-	**730 J**	**66 J**	**110 J**	**19 J**	-	**35 J**	-	-	-
Total hexachlorodibenzofuran (HxCDF)	pg/g	-	-	**200 J**	**24 J**	**27 J**	**21 J**	-	**57 J**	-	-	-
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	-	-	**120 J**	**40 J**	**55 J**	**9.7 J**	-	**11 J**	-	-	-
Total pentachlorodibenzofuran (PeCDF)	pg/g	-	-	**340 J**	**20 J**	**20 J**	**43 J**	-	**140 J**	-	-	-
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	-	-	**450 J**	**1700 J**	**610 J**	**250 J**	-	**16 J**	-	-	-
Total tetrachlorodibenzofuran (TCDF)	pg/g	-	-	**650 J**	**37 J**	**43 J**	**54 J**	-	**130 J**	-	-	-
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	-	-	**28 J**	**6.1 J**	**7.2 J**	**5.6 J**	-	**3.6 J**	-	-	-
Asbestos												
Chrysotile asbestos	%	-	-	-	-	-	-	-	-	-	-	1 <
General Chemistry												
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.56 U	0.60 U	0.45 U	0.45 U	0.51 U	0.50 U	0.53 U	0.49 U	0.57 U	0.58 U	-
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	**88.7**	**83.0**	-	-	-	-	-	-	**87.2**	**86.9**	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TT-31**	**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**	**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**	**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**14-15 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Volatiles													
1,1,1-Trichloroethane	µg/kg	**1.2 J**	0.40 U	-	42 U	**1.1 J**	**1.8 J**	**69 J**	-	-	0.45 U	-	0.34 U
1,1,2-Trichloroethane	µg/kg	0.79 U	0.68 U	-	35 U	0.98 U	R	45 U	-	-	0.77 U	-	0.58 U
1,1-Dichloroethane	µg/kg	**33**	0.57 U	-	**390**	0.83 U	0.71 U	60 U	-	-	0.65 U	-	0.49 U
1,1-Dichloroethene	µg/kg	1.1 U	0.94 U	-	55 U	1.4 U	1.2 U	70 U	-	-	1.1 U	-	0.81 U
1,2,4-Trichlorobenzene	µg/kg	0.49 U	0.42 U	-	**61 J**	0.60 U	0.52 UJ	**83 J**	-	-	R	-	0.36 U
1,2-Dichlorobenzene	µg/kg	0.45 U	0.38 U	-	27 U	0.55 U	0.47 UJ	**250 J**	-	-	R	-	0.33 U
1,2-Dichloroethane	µg/kg	0.59 U	0.50 U	-	45 U	0.73 U	0.62 U	58 U	-	-	0.57 U	-	0.43 U
1,2-Dichloroethene (total)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/kg	0.63 U	0.54 U	-	45 U	0.78 U	0.67 U	58 U	-	-	0.61 U	-	0.46 U
1,3-Dichlorobenzene	µg/kg	0.59 U	0.50 U	-	58 U	0.73 U	0.62 UJ	74 U	-	-	R	-	0.43 U
1,4-Dichlorobenzene	µg/kg	0.71 U	0.61 U	-	41 U	0.88 U	0.75 UJ	**12000**	-	-	R	-	0.52 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/kg	2.6 U	2.2 U	-	**91 J**	3.2 U	2.7 U	**1900**	-	-	2.5 U	-	1.9 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/kg	1.8 U	1.5 U	-	**140 J**	2.2 U	R	**940 J**	-	-	1.8 U	-	1.3 U
Acetone	µg/kg	22 U	17 U	-	150 U	17 U	27 U	190 U	-	-	17 U	-	4.6 U
Benzene	µg/kg	**1.0 J**	0.56 U	-	36 U	0.80 U	0.69 U	47 U	-	-	0.63 U	-	0.48 U
Carbon disulfide	µg/kg	0.43 U	0.37 U	-	27 U	0.53 U	**2.6 J**	35 U	-	-	0.41 U	-	0.31 U
Carbon tetrachloride	µg/kg	0.51 U	0.43 U	-	41 U	0.63 U	**2.7 J**	52 U	-	-	0.49 U	-	0.37 U
Chlorobenzene	µg/kg	0.67 U	0.57 U	-	45 U	0.83 U	R	**170 J**	-	-	0.65 U	-	0.49 U
Chloroethane	µg/kg	0.77 U	0.66 U	-	42 U	0.95 U	0.82 U	54 U	-	-	0.75 U	-	0.57 U
Chloroform (Trichloromethane)	µg/kg	0.47 U	0.40 U	-	36 U	0.58 U	0.49 U	47 U	-	-	0.45 U	-	0.34 U
cis-1,2-Dichloroethene	µg/kg	0.57 U	0.49 U	-	53 U	0.70 U	0.60 U	68 U	-	-	0.55 U	-	0.42 U
Cyclohexane	µg/kg	0.43 U	0.37 U	-	**45 J**	0.53 U	0.45 U	**160 J**	-	-	0.41 U	-	0.31 U
Ethylbenzene	µg/kg	0.55 U	0.47 U	-	53 U	0.68 U	R	**2200**	-	-	0.53 U	-	0.40 U
Isopropyl benzene	µg/kg	0.41 U	0.35 U	-	52 U	0.50 U	R	**430 J**	-	-	0.39 U	-	0.30 U
Methyl acetate	µg/kg	2.4 U	2.0 U	-	**340 J**	2.9 U	2.5 U	**240 J**	-	-	2.3 U	-	1.8 U
Methyl cyclohexane	µg/kg	0.47 U	0.40 U	-	**130 J**	0.58 U	0.49 U	**380 J**	-	-	**1.0 J**	-	0.34 U
Methyl tert butyl ether (MTBE)	µg/kg	0.55 U	0.47 U	-	39 U	0.68 U	0.58 U	50 U	-	-	0.53 U	-	0.40 U
Methylene chloride	µg/kg	6.3 U	6.3 U	-	99 U	9.8 U	6.7 U	130 U	-	-	5.1 U	-	0.36 U
Styrene	µg/kg	0.55 U	0.47 U	-	**16 J**	0.68 U	R	19 U	-	-	0.53 U	-	0.40 U
Tetrachloroethene	µg/kg	0.75 U	0.64 U	-	32 U	**2.5 J**	**5.0 J**	**180 J**	-	-	**0.96 J**	-	0.55 U
Toluene	µg/kg	**0.80 J**	**0.89 J**	-	74 U	0.85 U	R	**1600**	-	-	**0.73 J**	-	0.51 U
trans-1,2-Dichloroethene	µg/kg	0.77 U	0.66 U	-	53 U	0.95 U	0.82 U	68 U	-	-	0.75 U	-	0.57 U
Trichloroethene	µg/kg	0.83 U	0.71 U	-	56 U	1.0 U	**17 J**	72 U	-	-	0.81 U	-	0.61 U
Trichlorofluoromethane (CFC-11)	µg/kg	0.49 U	0.42 U	-	52 U	0.60 U	0.52 U	**79 J**	-	-	0.47 U	-	0.36 U
Trifluorotrichloroethane (CFC-113)	µg/kg	1.0 U	0.85 U	-	35 U	1.2 U	1.1 U	45 U	-	-	0.97 U	-	0.73 U
Vinyl chloride	µg/kg	0.57 U	0.49 U	-	26 U	0.70 U	0.60 U	33 U	-	-	0.55 U	-	0.42 U
Xylenes (total)	µg/kg	**1.4 J**	**0.89 J**	-	**200 J**	1.0 U	R	**19000**	-	-	0.79 U	-	0.60 U
Semi-Volatiles													
2,4-Dimethylphenol	µg/kg	50 U	120 U	-	240 U	100 U	98 U	620 U	-	-	**100 J**	-	23 U
2-Chlorophenol	µg/kg	20 U	50 U	-	97 U	41 U	40 U	250 U	-	-	24 U	-	9.6 U
2-Methylnaphthalene	µg/kg	**170**	**930**	-	**3600**	**380**	**140**	**9300**	-	-	**2200**	-	**5.3 J**
2-Methylphenol	µg/kg	27 U	67 U	-	130 U	56 U	54 U	340 U	-	-	**42 J**	-	13 U
3&4-Methylphenol	µg/kg	50 U	120 U	-	**490 J**	100 U	98 U	620 U	-	-	59 U	-	23 U
3,3'-Dichlorobenzidine	µg/kg	45 U	110 U	-	210 U	91 U	88 U	560 U	-	-	53 U	-	21 U
Acenaphthene	µg/kg	1.9 U	4.6 U	-	**110**	**43**	3.7 U	**760**	-	-	**84**	-	**23**
Acenaphthylene	µg/kg	**15 J**	**210**	-	4.2 U	**40**	1.7 U	**230**	-	-	**43**	-	**13**
Acetophenone	µg/kg	**190 J**	**290 J**	-	110 U	**74 J**	**49 J**	**3900**	-	-	27 U	-	11 U
Anthracene	µg/kg	**51**	**220**	-	**110**	**97**	**26 J**	**490**	-	-	**110**	-	**91**
Benzaldehyde	µg/kg	**140 J**	**200 J**	-	140 U	**130 J**	**65 J**	370 U	-	-	**190 J**	-	14 U
Benzo(a)anthracene	µg/kg	**230**	**770**	-	**130**	**930**	**86**	**430**	-	-	**250**	-	**270**
Benzo(a)pyrene	µg/kg	**230**	**810**	-	**130**	**950**	**71**	**230**	-	-	**180**	-	**210**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TT-31**	**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**	**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**	**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**14-15 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Semi-Volatiles (cont'd)													
Benzo(b)fluoranthene	µg/kg	**510**	**1100**	-	**150**	**1300**	**110**	**350**	-	-	**310**	-	**290**
Benzo(g,h,i)perylene	µg/kg	**290**	**930**	-	4.2 U	**840**	**72**	**210**	-	-	**280**	-	**150**
Benzo(k)fluoranthene	µg/kg	**150**	**380**	-	8.1 U	**420**	**33**	**110 J**	-	-	**55**	-	**100**
Biphenyl (1,1-Biphenyl)	µg/kg	**130**	**100 J**	-	**290 J**	**54 J**	**32 J**	**1300 J**	-	-	**330**	-	4.1 U
bis(2-Ethylhexyl)phthalate (DEHP)	µg/kg	**2100**	**370 J**	-	400 U	**1300**	**170 J**	**5300**	-	-	56 U	-	58 U
Butyl benzylphthalate (BBP)	µg/kg	25 U	**160 J**	-	120 U	**180 J**	49 U	**1700 J**	-	-	29 U	-	12 U
Caprolactam	µg/kg	92 U	220 U	-	440 U	190 U	180 U	1100 U	-	-	110 U	-	43 U
Carbazole	µg/kg	67 U	160 U	-	320 U	140 U	130 U	840 U	-	-	79 U	-	32 U
Chrysene	µg/kg	**410**	**870**	-	**190**	**950**	**130**	**520**	-	-	**330**	-	**270**
Dibenz(a,h)anthracene	µg/kg	**76**	**210**	-	7.8 U	**220**	3.2 U	20 U	-	-	1.9 U	-	**38**
Dibenzofuran	µg/kg	**150**	**340**	-	**230 J**	**130 J**	**55 J**	**1000 J**	-	-	**590**	-	**16 J**
Diethyl phthalate	µg/kg	**43 J**	97 U	-	190 U	**95 J**	78 U	500 U	-	-	47 U	-	19 U
Dimethyl phthalate	µg/kg	42 U	100 U	-	200 U	86 U	83 U	530 U	-	-	50 U	-	20 U
Di-n-butylphthalate (DBP)	µg/kg	37 U	**260 J**	-	**540 J**	**95 J**	73 U	460 U	-	-	44 U	-	18 U
Di-n-octyl phthalate (DnOP)	µg/kg	20 U	48 U	-	94 U	40 U	39 U	240 U	-	-	23 U	-	9.3 U
Fluoranthene	µg/kg	**540**	**1400**	-	**320**	**1400**	**160**	**1500**	-	-	**390**	-	**700**
Fluorene	µg/kg	**18**	**88**	-	**280**	**20 J**	2.6 U	**1100**	-	-	**100**	-	**31**
Hexachlorobenzene	µg/kg	5.2 U	13 U	-	25 U	11 U	10 U	65 U	-	-	6.2 U	-	2.5 U
Hexachlorobutadiene	µg/kg	14 U	34 U	-	67 U	28 U	27 U	170 U	-	-	16 U	-	6.6 U
Indeno(1,2,3-cd)pyrene	µg/kg	**230**	**620**	-	4.2 U	**720**	**46**	11 U	-	-	**97**	-	**130**
Isophorone	µg/kg	32 U	79 U	-	150 U	66 U	64 U	400 U	-	-	38 U	-	15 U
Naphthalene	µg/kg	**270**	**730**	-	**3300**	**290**	**110**	**3800**	-	-	**1500**	-	**6.4 J**
N-Nitrosodiphenylamine	µg/kg	52 U	130 U	-	250 U	110 U	100 U	650 U	-	-	62 U	-	25 U
Pentachlorophenol	µg/kg	23 U	55 U	-	110 U	46 U	45 U	280 U	-	-	27 U	-	11 U
Phenanthrene	µg/kg	**470**	**1300**	-	**1000**	**520**	**230**	**3800**	-	-	**1500**	-	**400**
Phenol	µg/kg	18 U	44 U	-	87 U	37 U	36 U	**1400 J**	-	-	21 U	-	8.6 U
Pyrene	µg/kg	**450**	**1200**	-	**260**	**1200**	**170**	**1600**	-	-	**370**	-	**560**
Metals													
Aluminum	mg/kg	**16000**	**2700**	-	**2100 J**	**8200**	**6900**	**6900**	-	-	**6400**	-	**10000 J**
Antimony	mg/kg	**97**	**3.5**	-	**0.40 J**	**120**	**6.3**	**8.2**	-	-	**0.78**	-	0.18 UJ
Arsenic	mg/kg	**20**	**6.4**	-	**8.3**	**21**	**27**	**29**	-	-	**29**	-	**7.5**
Barium	mg/kg	**2300**	**150**	-	**43**	**230**	**1300**	**1600**	-	-	**230**	-	**130**
Beryllium	mg/kg	**0.59**	**0.47**	-	**0.20**	**1.4**	**2.7**	**0.71**	-	-	**2.1**	-	**0.73**
Cadmium	mg/kg	**30**	**3.8**	-	**0.29**	**22**	**7.9**	**54**	-	-	**3.4**	-	**0.29**
Calcium	mg/kg	**65000**	**27000**	-	**970**	**45000**	**20000**	**10000**	-	-	**8200**	-	**49000**
Chromium	mg/kg	**170**	**34**	-	**19**	**57**	**55**	**380**	-	-	**8.6**	-	**14**
Chromium III (trivalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Chromium VI (hexavalent)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Cobalt	mg/kg	**19**	**4.8**	-	**2.4**	**35**	**17**	**240**	-	-	**8.3**	-	**6.7**
Copper	mg/kg	**8600**	**310**	-	**44**	**2500**	**480**	**1300**	-	-	**180**	-	**20**
Iron	mg/kg	**58000**	**18000**	-	**20000**	**78000**	**30000**	**210000**	-	-	**21000**	-	**17000**
Lead	mg/kg	**3500**	**440**	-	**23**	**3500**	**590**	**920**	-	-	**79**	-	**47**
Lead - coarse fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - fine fraction	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Lead - total (calculated by fine/coarse fraction)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Magnesium	mg/kg	**22000**	**9300**	-	**540**	**13000**	**7400**	**4300**	-	-	**3100**	-	**21000**
Manganese	mg/kg	**700**	**220**	-	**450**	**930**	**450**	**1600**	-	-	**120**	-	**450**
Mercury	mg/kg	**0.17**	**0.22**	-	0.019 U	**1.2**	**0.21**	**0.035 J**	-	-	0.025 U	-	**0.13**
Nickel	mg/kg	**150**	**29**	-	**15**	**360**	**73**	**420**	-	-	**27**	-	**16**
Potassium	mg/kg	**1700**	**290**	-	180 U	**700**	**650**	**2600**	-	-	**960**	-	**1100**
Selenium	mg/kg	**2.1**	**1.2**	-	**3.4**	**1.1**	**14**	**3.7**	-	-	**10**	-	**0.73 J**
Silver	mg/kg	**6.5**	**0.43**	-	**0.072 J**	**2.2**	**3.5**	**0.71**	-	-	0.067 U	-	**0.075 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**	**on-site (EU19)**
Sample Location:		**TT-31**	**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**	**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**	**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**14-15 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Metals (cont'd)													
Sodium	mg/kg	**1400**	92 U	-	**240**	**240**	**280**	**3000**	-	-	**270**	-	91 U
Thallium	mg/kg	**0.19 J**	**0.15 J**	-	**0.11 J**	**0.24 J**	**0.93**	**0.46 J**	-	-	**0.75**	-	**0.23 J**
Vanadium	mg/kg	**30**	**10**	-	**4.5**	**21**	**51**	**36**	-	-	**23**	-	**23**
Zinc	mg/kg	**9000**	**280**	-	**26**	**1700**	**610**	**1800**	-	-	**44**	-	**150**
PCBs													
Aroclor-1232 (PCB-1232)	µg/kg	99 U	95 U	-	19 U	9900 U	19 U	20 U	-	-	19 U	-	18 U
Aroclor-1242 (PCB-1242)	µg/kg	**1900**	**120 J**	-	24 U	12000 U	**51 J**	**620**	-	-	24 U	-	23 U
Aroclor-1248 (PCB-1248)	µg/kg	110 U	100 U	-	20 U	11000 U	20 U	21 U	-	-	20 U	-	19 U
Aroclor-1254 (PCB-1254)	µg/kg	**3800**	**2600**	-	**50 J**	**450000**	**300**	**1000**	-	-	**19 J**	-	16 U
Aroclor-1260 (PCB-1260)	µg/kg	110 U	110 U	-	21 U	11000 U	22 U	22 U	-	-	21 U	-	21 U
Pesticides													
4,4'-DDD	µg/kg	41 U	78 U	-	40 U	2000 U	40 U	21 U	-	-	79 U	-	20 U
4,4'-DDE	µg/kg	15 U	29 U	-	14 U	740 U	15 U	7.5 U	-	-	29 U	-	7.3 U
4,4'-DDT	µg/kg	17 U	33 U	-	17 U	870 U	17 U	8.7 U	-	-	33 U	-	8.5 U
alpha-BHC	µg/kg	20 U	38 U	-	19 U	990 U	20 U	10 U	-	-	38 U	-	9.7 U
alpha-Chlordane	µg/kg	47 U	90 U	-	46 U	2400 U	46 U	24 U	-	-	91 U	-	23 U
beta-BHC	µg/kg	48 U	93 U	-	47 U	2400 U	48 U	24 U	-	-	93 U	-	24 U
delta-BHC	µg/kg	16 U	31 U	-	16 U	810 U	16 U	8.1 U	-	-	31 U	-	7.9 U
Dieldrin	µg/kg	11 U	21 U	-	11 U	**560 NJ**	11 U	5.6 U	-	-	21 U	-	5.5 U
Endosulfan I	µg/kg	16 U	31 U	-	16 U	810 U	16 U	8.1 U	-	-	31 U	-	7.9 U
Endosulfan II	µg/kg	22 U	43 U	-	22 U	1100 U	22 U	11 U	-	-	43 U	-	11 U
Endosulfan sulfate	µg/kg	15 U	29 U	-	14 U	740 U	15 U	7.5 U	-	-	29 U	-	7.3 U
Endrin	µg/kg	**49 NJ**	**46 NJ**	-	17 U	1700 U	17 U	8.7 U	-	-	33 U	-	8.5 U
Endrin aldehyde	µg/kg	**40 J**	43 U	-	22 U	2200 U	22 UJ	**15 NJ**	-	-	43 U	-	11 U
Endrin ketone	µg/kg	14 U	26 U	-	13 U	680 U	13 U	6.8 U	-	-	26 U	-	6.7 U
gamma-BHC (lindane)	µg/kg	36 U	69 U	-	35 U	1800 U	35 U	18 U	-	-	69 U	-	18 U
gamma-Chlordane	µg/kg	19 U	36 U	-	18 U	930 U	18 U	9.3 U	-	-	36 U	-	9.1 U
Heptachlor epoxide	µg/kg	**34 NJ**	57 U	-	29 U	1500 U	29 U	15 U	-	-	57 U	-	15 U
Methoxychlor	µg/kg	**19 J**	29 U	-	14 U	740 U	15 U	**12 J**	-	-	29 U	-	7.3 U
Herbicides													
2,4,5-TP (Silvex)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Petroleum Products													
Total Petroleum Hydrocarbons - Extractable (DRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total Petroleum Hydrocarbons - Purgeable (GRO)	µg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Dioxin/Furans													
1,2,3,4,6,7,8,9-Octachlorodibenzofuran (OCDF)	pg/g	**2300**	**250**	-	**21**	**280**	**200**	26 U	-	-	**13**	-	2.5 U
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin (OCDD)	pg/g	**2200**	**1400**	-	**790 J**	**9400**	**3200**	**440**	-	-	**92**	-	**28**
1,2,3,4,6,7,8-Heptachlorodibenzofuran (HpCDF)	pg/g	**1800**	**170**	-	**14**	**540**	**400**	15 U	-	-	7.8 U	-	**4.7 J**
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**700**	**240**	-	**140 J**	**1600**	**480**	**140**	-	-	**17**	-	**4.8 J**
1,2,3,4,7,8,9-Heptachlorodibenzofuran (HpCDF)	pg/g	**240**	23 U	-	**0.87 J**	**64**	**19**	10 U	-	-	1.2 U	-	**0.61 J**
1,2,3,4,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**960**	**74**	-	**3.9 J**	**440**	**250**	6.9 U	-	-	1.7 U	-	**4.2 J**
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	51 U	9.1 U	-	**1.3 J**	51 U	**22**	11 U	-	-	0.20 U	-	**0.41 J**
1,2,3,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**330**	29 U	-	**1.5 J**	**150**	**74**	5.6 U	-	-	1.2 U	-	**1.9 J**
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**100**	**16 J**	-	**18**	**110**	**54**	**42 J**	-	-	**1.1 J**	-	**1.5 J**
1,2,3,7,8,9-Hexachlorodibenzofuran (HxCDF)	pg/g	25 U	4.3 U	-	0.078 U	12 U	3.6 U	5.1 U	-	-	0.17 U	-	**0.21 J**
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**140**	20 U	-	**8.1**	**150**	**65**	**63**	-	-	1.2 U	-	**1.8 J**
1,2,3,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**210**	**12 J**	-	**0.76 J**	**210**	**56**	**8.6 J**	-	-	**0.39 J**	-	**0.80 J**
1,2,3,7,8-Pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**110 J**	2.3 U	-	**1.3 J**	4.2 U	**25**	**50 J**	-	-	**0.71 J**	-	**1.2 J**
2,3,4,6,7,8-Hexachlorodibenzofuran (HxCDF)	pg/g	**330**	29 U	-	**1.7 J**	**100**	**91**	8.2 U	-	-	1.0 U	-	**2.1 J**
2,3,4,7,8-Pentachlorodibenzofuran (PeCDF)	pg/g	**440**	**26 J**	-	**1.6 J**	**320**	**130**	**8.6 J**	-	-	**0.69 J**	-	**2.2 J**
2,3,7,8-Tetrachlorodibenzofuran (TCDF)	pg/g	**280**	**10 J**	-	**1.3 J**	**710**	**80**	**25 J**	-	-	**1.3 J**	-	**0.61 J**

Table 2

Summary of Detected Parameters
Soil Samples - Central Area and Northern Area
South Dayton Dump and Landfill Site
Moraine, Ohio

EU Designation:		on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)	on-site (EU19)
Sample Location:		**TT-31**	**TT-32**	**TT-33**	**TT-33**	**TT-34**	**TT-35**	**TT-36**	**TT-36**	**TT-37**	**TT-37**	**TT-38**	**TT-39**
Sample ID:		**S-38443-110717-BW-028**	**S-38443-110717-BW-030**	**TT-33**	**S-38443-110317-BW-020**	**S-38443-110717-BW-027**	**S-38443-110617-BW-025**	**S-38443-110617-BW-024**	**TT-36**	**TT-37**	**S-38443-110617-BW-023**	**TT-38**	**S-38443-110217-BW-018**
Sample Date:		**11/7/2017**	**11/7/2017**	**11/3/2017**	**11/3/2017**	**11/7/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/6/2017**	**11/2/2017**	**11/2/2017**
Sample Depth:		**14-15 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**12-14 ft BGS**	**8-10 ft BGS**	**12-14 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**	**4-6 ft BGS**	**8-10 ft BGS**	**2-4 ft BGS**	**8-10 ft BGS**
Parameters	**Units**												
Dioxin/Furans (cont'd)													
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**21 J**	3.0 U	-	**0.27 J**	**14**	**6.8**	2.0 U	-	-	0.33 U	-	**0.23 J**
Total heptachlorodibenzofuran (HpCDF)	pg/g	**2700 J**	**280 J**	-	**34 J**	**1000 J**	**580 J**	**36 J**	-	-	**13 J**	-	**8.1 J**
Total heptachlorodibenzo-p-dioxin (HpCDD)	pg/g	**1400 J**	**470 J**	-	**250 J**	**3600 J**	**910 J**	**340 J**	-	-	**29 J**	-	**9.5 J**
Total hexachlorodibenzofuran (HxCDF)	pg/g	**3200 J**	**250 J**	-	**21 J**	**1700 J**	**860 J**	**51 J**	-	-	**12 J**	-	**19 J**
Total hexachlorodibenzo-p-dioxin (HxCDD)	pg/g	**1600 J**	**170 J**	-	**130 J**	**1300 J**	**650 J**	**720 J**	-	-	**9.1 J**	-	**14 J**
Total pentachlorodibenzofuran (PeCDF)	pg/g	**4800 J**	**240 J**	-	**16 J**	**2800 J**	**1500 J**	**68 J**	-	-	**16 J**	-	**24 J**
Total pentachlorodibenzo-p-dioxin (PeCDD)	pg/g	**13000 J**	**5200 J**	-	**68 J**	**270000 J**	**1300 J**	**670 J**	-	-	**37 J**	-	**21 J**
Total tetrachlorodibenzofuran (TCDF)	pg/g	**8300 J**	**280 J**	-	**26 J**	**7100 J**	**2600 J**	**120 J**	-	-	**19 J**	-	**22 J**
Total tetrachlorodibenzo-p-dioxin (TCDD)	pg/g	**1400 J**	**16 J**	-	**6.9 J**	**430 J**	**400 J**	**140 J**	-	-	**3.1 J**	-	**5.8 J**
Asbestos													
Chrysotile asbestos	%	-	1 <	-	-	1 <	-	-	-	-	-	-	-
General Chemistry													
Cellulose	%	-	-	-	-	-	-	-	-	-	-	-	-
Cyanide (total)	mg/kg	0.57 UJ	**2.2 J**	-	0.58 U	0.52 UJ	0.59 UJ	**14 J**	-	-	0.53 UJ	-	0.54 U
Fraction organic carbon (FOC)	%	-	-	-	-	-	-	-	-	-	-	-	-
Soot carbon	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total organic carbon (TOC)	mg/kg	-	-	-	-	-	-	-	-	-	-	-	-
Total solids	%	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

< - Less than reported value.
B - Estimated concentration (Inorganics).
B - Compound was found in the blank and sample (Organics).
D - Compounds at secondary dilution factor.
E - Estimated because of the presence of interference (Inorganics).
E - Exceed calibration range of GC/MS instrument (Organics).
J - Estimated concentration.
ND - Not detected.
NJ - Tentatively identified compound, estimated concentration.
P - The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
W - Unknown description
X - Unknown description
- - Not applicable.

about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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