VAPOR INTRUSION INVESTIGATION SUMMARY REPORT

SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

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DECEMBER 2012
REF. NO. 038443 (17)

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1.0 INTRODUCTION

This report presents the result of the Vapor Intrusion (VI) Investigation at the South Dayton Dump and Landfill Site in Moraine, Ohio (Site). This VI Investigation Report is prepared in accordance with the USEPA-modified Vapor Intrusion Investigation Work Plan, dated November 2011 (VI Work Plan), and the Addendum to the Vapor Intrusion Study Work Plan for the Round 2 Sampling Event, dated July 11, 2012 (Addendum).

Conestoga-Rovers & Associates (CRA) completed the VI Investigation as an interim response action pursuant to Paragraph 37(c) of the Administrative Settlement Agreement and Order on Consent for Remedial Investigation/Feasibility Study (RI/FS) of the Site, Docket No. V-W-06-C-852 (ASAOC). The VI Investigation was required under Paragraph 4 of the December 10, 2010 Dispute Resolution Agreement signed by the Respondents and the United States Environmental Protection Agency (USEPA).

CRA prepared this report on behalf of the Respondents to the ASAOC (Respondents)

1.1 SITE CONDITIONS

The Site is located at 1901 through 2153 Dryden Road (sometimes called Springboro Pike) and 2225 East River Road in Moraine, Ohio (Figure 1.1). The Site is bounded to the north and west by the Miami Conservancy District floodway (part of which is included in the definition of the Site), the Great Miami River Recreational Trail and the Great Miami River (GMR) beyond. The Site is bounded to the east by Dryden Road with light industrial facilities beyond, to the southeast by residential and commercial properties along East River Road with a residential trailer park beyond, and to the south by undeveloped land with industrial facilities beyond.

The approximately 80-acre Site is a former disposal site and includes areas where municipal, industrial, and residual wastes and construction and demolition debris were disposed. The northern and eastern portions of the Site are occupied by active businesses including an operating asphalt plant at the northern portion of the Site and several other active businesses in the northeastern portion of the Site along Dryden Road. Additional active businesses are located in the southeastern portion of the Site along East River Road. Open burning, landfilling, and storage of waste have historically occurred throughout the Site's half-century operation.

1.2 PREVIOUS ASSESSMENTS

Fill, waste, and soil at the Site contains volatile organic compounds (VOCs), including, but not limited to trichloroethene (TCE), vinyl chloride (VC), and benzene; semi-volatile organic compounds (SVOCs), including, but not limited to, polynuclear aromatic hydrocarbons (PAHs) and naphthalene; polychlorinated biphenyls (PCBs); and metals and other inorganic chemicals. Contaminants, including VOCs, metals, and some other chemicals detected in the landfill, have been detected in groundwater samples collected from a number of monitoring wells at and near the Site. Naphthalene and VOCs, including benzene, chlorobenzene, cis-1,2-dichloroethene (cis-1,2-DCE), isopropyl benzene, ethylbenzene, TCE, and VC were detected in samples collected from several soil gas probes throughout the Site.

In September 2009, CRA collected soil vapor samples from 21 permanently-installed soil vapor probes at the Site and on an adjacent property and re-sampled one of the soil vapor probes in January 2010 (GP20-09 on Parcel 5171). CRA analyzed the samples for VOCs using USEPA Method TO-15. CRA screened the soil vapor sample results using generic soil vapor screening levels (SVSLs) that were derived by applying the USEPA Region 5 Vapor Intrusion Guidance (USEPA 2010) default soil gas-to-indoor air attenuation factor (DAF) of 0.1 to the USEPA (2012) indoor air regional screening levels (RSLs). The RSLs are derived assuming a 10^{-6} target excess lifetime cancer risk (ELCR) or hazard index (HI) of 1. CRA used surrogates to evaluate constituents without RSLs. CRA used industrial SVSLs for commercial and industrial buildings; and residential SVSLs for residential buildings.

Table 1.1 presents the soil vapor samples results compared to the 2012 industrial SVSLs. Table 1.2 presents the soil vapor results from the probes that are located in the vicinity of residential buildings (GP06-09, GP07-09, GP08-09, and GP09-09) compared to the residential SVSLs. Figure 1.2 presents the soil vapor results that were greater than the SVSLs. In this report, CRA updated the tables and figures originally presented in the VI Investigation Work Plan to reflect the most recent version of the RSLs, which USEPA updated in May 2012. The following VOCs were detected in soil vapor samples at concentrations greater than the SVSLs: 1,1-dichloroethane (DCA); benzene; chlorobenzene; chloroform; cis-1,2-DCE; ethylbenzene; naphthalene; tetrachloroethene (PCE); TCE, VC, and total xylenes. Soil vapor samples collected from 16 of the 21 soil vapor probes contained VOCs at concetrations greater than the SVSLs.

CRA performed methane field screening at the soil vapor probes in September, October, and December 2009 (Figure 1.2). Table 1.3 presents the soil vapor methane concentrations compared to the methane upper explosive limit (UEL; 15 percent by

volume as methane) and lower explosive limit (LEL; 5 percent by volume as methane). Methane concentrations greater than 10 percent of the LEL (0.5 percent methane) occurred in 10 of the 21 soil vapor probe locations, the LEL in 5 of those 10 locations, and the UEL in 3 of those 5 locations.

Detailed information on the remaining Site environmental assessments is contained in the *Draft Streamlined Remedial Investigation and Feasibility Study Report for Operable Unit One* (OU1 RI/FS, CH2M Hill, July 2012).

1.3 DISPUTE RESOLUTION AGREEMENT

There are a number of buildings located on the Site and adjacent properties, above or immediately adjacent to fill material and in close proximity to the soil gas probe locations where elevated concentrations of VOCs and methane were detected.

Under the December 10, 2010, Dispute Resolution Agreement, the Respondents and USEPA agreed that the Respondents would complete the VI Study to assess the potential for methane, VOCs, and naphthalene in soil vapor to result in potential risks to receptors in buildings on and adjacent to the Site.

Specifically, Paragraph 4 of the Dispute Resolution Agreement states:

> *[T]he Respondents shall conduct the VI Study, as required by EPA, pursuant to Paragraph 37(c) of the ASAOC, as an interim response action. EPA has given the Group a copy of the newly issued EPA Region 5 Vapor Intrusion Guidebook (Guidebook) and the Parties have agreed that the Respondents will prepare their VI Work Plan, which will include Field Sampling Plan (FSP) and Quality Assurance Project Plan (QAPP) Addenda, in accordance with this new guidance and other relevant guidance (e.g., FSP and QAPP guidance). The Parties agree that the Work Plan will provide for sub-slab sampling, on an expedited schedule of any of the following structures which are of slab-on-grade construction or have basements or enclosed crawl spaces (see highlighted structures on Figure [1], attached, for an illustration of the structures for which sub-slab sampling is anticipated):*
>
> *A. Structures On Site West of Dryden Road:*
> *3 building structures on Lot 5054*
> *3 building structures on Lot 5171*
> *2 building structures on Lot 5172*

1 building structure on Lot 5174
1 building structure on Lot 5175, and

B. Structures On Site or Adjacent to Site Along East River Road:
4 building structures on Lot 4610 (Barnett; on-Site)
2 building structures on Lot 3207
1 residence on Lot 3253; and
1 building structure on Lot 3254.

Any additional structures on the Site that are, or may be, occupied will be evaluated to determine the need for VI sampling.

The Parties agree that if any structure on or adjacent to the Site that is or may be occupied has no slab (e.g., dirt or gravel floor) that Respondents will take indoor air samples (see Section 6.6 of Guidebook).

The Parties agree that the Respondents shall submit a Work Plan for the VI Study required by EPA by December 17, 2010. The Parties agree that if identified contaminant concentrations pose more than a 1×10^{-4} cancer risk or a hazard index greater than 1.0 through the VI pathway to current or potential future receptors, or if VI sampling results show an exceedance of 10% of the Lower Explosive Limit [for methane], EPA may require actions to mitigate these risks.

The Respondents prepared initial drafts of this Work Plan based on the requirements of the Dispute Resolution Agreement, previous investigation results, discussion between the Respondents and USEPA, and the results of the building surveys on the parcels identified in the Dispute Resolution Agreement. USEPA modified and issued the final VI Work Plan in November 2011. Figure 1.3 presents the addresses and designations for the vapor intrusion investigation buildings.

1.4 PURPOSE

The purpose of the VI Study is to collect additional data to determine if compounds are present in soil vapor beneath on-Site and nearby building foundations and floor slabs at concentrations sufficient to create the potential for contaminants to migrate into the indoor air of the VI Study buildings and produce an unacceptable risk to building occupants. The results of the VI investigation are presented in this report and are used to evaluate the need for VI monitoring or mitigation measures.

This report is organized into the following sections:

1.0 Introduction
2.0 Scope of Work
3.0 Sample Collection and Laboratory Analysis
4.0 Observations and Results
5.0 Discussion and Conclusions

2.0 SCOPE OF WORK

The VI Work Plan and Addendum presented the scope of work for the VI Investigation. The VI Work Plan contained a table of the proposed VI sample locations, including the rationale for selecting each location. The Addendum contained a revised table of the proposed VI sample locations for Round 2. The tables are presented in Tables 2.1 and 2.2, respectively. The VI sample locations are shown on Figures 2.1 to 2.33.

The scope of work included the following:

- Completion of building surveys, used to develop a conceptual site model (CSM) for each of the buildings
- Installation of sub-slab (SS) soil vapor probes at each VI study building with a slab
- Measured methane, carbon dioxide (CO_2), oxygen (O_2), and LEL (collectively referred to hereafter as "combustible gases") from SS probes, indoor air (IA), outdoor air (OA), or crawl spaces (CS) at each VI study building immediately prior to sampling
- Collection of SS soil vapor probe samples at each VI study building that has a slab and is designed for occupancy, and submission of the samples for VOC analysis
- Collection of CS air samples instead of SS samples from buildings with CS (2225A East River Road, Building A on Parcel 4610; 1901 Dryden Road, Building MP on Parcel 5054; 1915 Dryden Road, Building 4 on Parcel 5171)
- Collection of follow-up IA samples with concurrent SS (or crawl space air) and OA sampling, for buildings where SS or CS VOC concentrations were greater than applicable screening levels
- Collection of concurrent OA samples where IA or CS samples were collected, to assess ambient VOC contributions
- Collection of one OA sample for VOC for each sample collection day
- Analysis of the samples in accordance with USEPA Method TO-15, radon, or fixed gases (methane, ethane, ethene) in accordance with ASTM Method D-1946
- Comparison of the analytical results to applicable screening levels

The VI Investigation Work Plan required that a minimum of two samples be collected from each SS or IA sample location at each building and that the two sampling events be completed approximately six months apart to account for seasonal weather changes.

Representatives of the Respondents, USEPA, and the Ohio Environmental Protection Agency (Ohio EPA) completed the building surveys on June 21 and 22, 2011. Representatives of the Respondents and USEPA completed additional buildings surveys on December 9, 2011. Copies of the Building Physical Survey Questionnaires are provided in Appendix A (provided electronically).

On December 2, 2011, USEPA provided VI fact sheets and figures showing proposed sampling locations to tenants and owners of Site businesses by electronic mail (email). USEPA also provided notification of VI information sessions scheduled for December 6 and 7, 2011 at the Moraine Civic Center.

Between December 12 and 19 2011, the Respondents installed 54 sub-slab soil vapor probes. Between January 3 and 12, 2012, the Respondents completed Round 1 VI sampling, which included the collection of 50 sub-slab soil vapor samples, 1 indoor air sample, 3 crawl space samples, 10 OA samples, and 10 duplicate samples. Five of the 54 sub-slab soil vapor probes installed were field monitored for methane and combustible gases only. CRA analyzed one of the 50 sub-slab soil vapor samples collected for helium. The Respondents provided the results of the Round 1 VI sampling to USEPA on February 2, 2012.

From March 5 to 16, 2012, the Respondents completed Round 1 follow-up VI sampling, which included the collection of 69 sub-slab soil vapor samples, 53 indoor air samples, 18 outdoor samples, and 12 duplicate samples. The Respondents delayed sample collection from Bullseye Amusements located at 2003 Dryden Road, Parcel 5172 Building 2 due to roofing repairs, which occurred from March 6 to 23, 2012. The Respondents completed the Round 1 follow-up VI sampling at the Bullseye Amusements building on March 28, 2012. The Respondents provided the results of Round 1 follow-up VI sampling to USEPA on April 5, 2012.

USEPA requested that the Respondents add nine additional buildings to the VI sampling program via email on June 15, 2012. The Respondents agreed to the request. In an email dated July 4, 2012, the Respondents requested permission to complete community outreach to the additional building tenants without USEPA representatives, since these individuals were not available until July 17, 2012. USEPA agreed to the Respondents proposal in an email dated July 5, 2012. The Respondents completed community outreach and building surveys for additional buildings on July 12, 2012 (documentation provided in Appendix A). On July 16, 2012, USEPA issued the Addendum, including the additional locations.

On June 15, 2012, USEPA notified the Respondents that USEPA Removal Program was involved in the project to evaluate the VI sampling results and provide recommendations. On September 10, 2012, USEPA Removal Program provided Ohio Department of Health (ODH) Site-specific sub-slab soil vapor and indoor air screening levels, in a letter dated July 6, 2012. On October 9, 2012, ODH provided revised screening and action levels to correct an error with the indoor air non-residential values for o-xylene. On September 13, 2012, USEPA Removal Program's consultant, Dynamac Corporation, provided the Respondents with ODH screening levels for naphthalene. The Respondents and USEPA agreed to evaluate the VI analytical sample results versus the Site-specific ODH values. CRA compared the final validated analytical results for all samples to both the ODH screening levels and USEPA RSLs that guided the VI Investigation process.

On September 10, 2012 USEPA issued General Notice Letters to multiple parties regarding VI Investigation and mitigation activities. Subsequently, USEPA and the Respondents agreed to enter into negotiations to complete required VI remedial and removal actions under the direction of the USEPA Removal Program. Those negotiations are ongoing. Assuming further VI work is completed under the removal program, this report is the final VI activity to be conducted under the remedial program.

From July 30 to August 11, 2012, the Respondents completed Round 2 sampling, which included the collection of 51 sub-slab soil vapor samples, 34 indoor air samples, 5 crawl space samples, 15 OA samples, and 10 duplicate samples. The Respondents provided the results of the Round 2 VI sampling to USEPA on September 6, 2012.

From September 11 to 14, 2012, the Respondents completed Round 2 follow-up VI sampling, which consisted of 16 sub-slab soil vapor samples, 17 indoor air samples, 2 crawl space samples, 7 OA samples, and 4 duplicate samples. The Respondents provided the results of the Round 2 follow-up VI sampling to USEPA on October 9, 2012.

2.1 CHANGES TO THE SCOPE OF WORK

Based on Site conditions and conference call discussions, the Respondents modified the VI investigation locations prior to and during the VI investigation, as discussed below.

On December 12, 2011, CRA informed USEPA of the intention to collect indoor air samples at Ron Barnett's residence located at 2233 East River Road, Parcel 3253 in lieu of sub-slab soil vapor samples, due to the poor condition and insufficient thickness of the

concrete basement floor. On December 13, 2011, USEPA agreed to this proposed revision.

On December 13, 2011, CRA installed an additional sub-slab soil vapor probe at Bullseye Amusements located at 2003 Dryden Road, Parcel 5172 Building 2, due to the addition of a full partition since the completion of the building survey in June 2011. USEPA's on-Site representative agreed to the adjustment at the time of installation.

On January 6, 2012, the Respondents submitted an email to USEPA proposing deviations to the VI sampling procedure. The proposal included changes in sample collection procedures due to access limitations, and sample collection times extending past the expected eight hours for industrial samples. On January 9, 2012, USEPA approved the Respondents' proposals for VI sampling changes.

On February 1, 2012, USEPA, Ohio EPA, USEPA's contractor (CH2M Hill), and the Respondents participated in a conference call to discuss the preliminary Round 1 VI sample results and the next steps of the investigation. The Respondents planned to proceed with the concurrent IA sampling and SS sampling as detailed in the VI Work Plan. CH2M Hill did not have oversight personnel available until late February; therefore, the Respondents were not able to collect the samples within the 30-day time period specified in the VI Work Plan. During the conference call, USEPA agreed to delay submission of mitigation plans for buildings where contaminant concentrations in sub-slab samples were greater than the applicable screening levels until after the completion of the concurrent SS and IA sampling, with the exception of the Valley Asphalt Quonset Hut Building at 1903 Dryden Road (Parcel 5054). Due to the potential immediate risk to building occupants presented by the concentrations of methane in the one sub-slab soil vapor probe, the Respondents prepared and submitted a mitigation work plan on January 24, 2012.

In February 2012, the Respondents and USEPA discussed the use of radon analytical data as a line of evidence in order to evaluate the VI pathway. The Respondents anticipated that the determination of indoor air concentrations due to VI would be complicated by the conditions of the building foundations (i.e., cracked) and that nature of the industrial activities in Site buildings (i.e., paint shops, truck repair, etc.). The products used by businesses on Site contain VOCs, including acetone, xylenes, PCE, TCE, etc., which the Respondents anticipated would contribute to IA contamination.

Radon is a naturally-formed radioactive gas and is suitable for use as a line of evidence as the source of most radon is in the ground beneath buildings. Radon concentrations in SS and IA samples would provide the additional data required in order to determine if

VOCs present in the indoor air are the result of subsurface VI or potential indoor air VOC sources and products. On February 29, 2012, the Respondents submitted draft standard operating procedures (SOP) and QAPP addenda for radon testing to USEPA, by email. The Respondents proposed to calculate building attenuation factors (AFs) between sub-slab soil vapor and indoor air using radon concentrations for buildings that contain, store, and use products containing or potentially containing chemicals that were also detected above screening levels.

On March 1, 2012, USEPA submitted an email message to CRA specifying required changes to the March 2012 and summer 2012 VI investigation sampling methodologies and analyses. CRA implemented the following modifications from the start of the March 2012 Round 1 follow-up VI sampling event:

- Measure and report all combustible gases as percent of the LEL using the RKI GX-2003 meter (RKI)
- Measure and report explosive gases (i.e., O_2, CO_2, LEL) and methane using the Landtec GEM-2000 (Landtec) equipped with a charcoal carbon filter to remove cross-gas effects
- Collect RKI and filtered Landtec measurements:
  - Before and after purging (e.g., helium leak test) at all SS soil vapor probe locations
  - At all Valley Asphalt and B&G Trucking buildings[1]

On March 7, 2012, USEPA, Ohio EPA, CH2M Hill, and CRA participated in a conference call to finalize changes to the VI sampling program. CRA implemented the changes beginning on March 8, 2012. The implemented changes consisted of:

- Collection of 8-hour SUMMA canisters for methane-only analysis from SS probe location where field measurements indicate the presence of methane or combustible gases
- Submission of at least one SUMMA canister for analysis of ethene in addition to methane, from a location where there is significant difference between the RKI and Landtec readings

In emails sent on March 7, and 15, 2012, May 21, 2012, and other emails and discussions, USEPA expressed concerns that the discrepancy in values between RKI GX-2003 and

[1] Valley Asphalt demolished Building 3 on Parcel 5054 in February 2012.

Landtec GEM 2000 field meter readings was due to the presence of combustible gases other than methane. USEPA requested the Respondents discuss Gas Chromatography - Flame Ionization Detection (GC-FID) analysis in the C1 to C12 range, using representative compounds for each range for calibration (e.g., pentane for the C5 range), similar to a modified version of SW846 8015 in an effort to verify field meter values and rule out potential hazards. In response to USEPA's request, in emails dated June 15 and July 27, 2012 the Respondents proposed to capture C1 and C2 alkanes (methane and ethane) and ethene, for all samples by ASTM D1946 fixed gases analysis from the same sample canister submitted for extended TO-15 analysis. At locations where field readings indicated the presence of combustible gases, the Respondents proposed to collect a separate SUMMA canister for fixed gases analyses, in order to avoid sample dilution and elevated reporting detection limits. USEPA agreed to the Respondents' proposal in an email dated July 27, 2012.

In accordance with the conference call discussions held on June 15, 2012, CRA submitted Round 2 VI samples to TestAmerica for extended USEPA TO-15 analyte list analysis, which included C4 to C12 representative alkanes. TestAmerica reported propane (C3) as a tentatively identified compound (TIC).

On March 21, 2012, the Respondents provided March 2012 VI field data to USEPA, by email. The Respondents proposed to determine mitigation requirements based on laboratory analytical data, rather than potentially unreliable RKI combustible gas field values. On March 21, 2012, USEPA agreed with the Respondents' proposal.

On May 15, 2012, the Respondents requested USEPA's permission to proceed with Round 2 analysis of residential IA and SS samples for VOCs, specifically 1,1,2-trichloroethane, by the routine (not low-level) USEPA method TO-15. The laboratory method detection limit for 1,1,2-trichloroethane using the routine USEPA method TO-15 analysis (0.29 $\mu g/m^3$) is greater than the 0.21 $\mu g/m^3$ screening level. The Respondents submitted the request because 1,1,2-trichloroethane is not a Site-related contaminant, and the method detection limits for all other USEPA method TO-15 analytes were less than or equal to residential screening levels. On May 16, 2012, USEPA agreed that analysis of 1,1,2-trichloroethane could be completed by routine USEPA TO-15 analysis.

On June 7, 2012, USEPA requested provision of laboratory chromatograms and tentatively identified compounds (TICs) in order to evaluate the potential presence of combustible gases other than methane.

During a June 15, 2012, conference call, USEPA requested that the Respondents complete sub-slab soil vapor sampling under additional buildings, including six additional residences along East River Road, Vinny's Bar and Grill, and crawl space sampling underneath two trailers close to the Site. USEPA requested sampling at these buildings to ensure there is no risk of VI and to delineate the extent of buildings at potential risk from VI in the vicinity of the Site. On June 20, 2012, the Respondents agreed to perform the additional VI sampling. The Respondent set up access agreements for and completed sampling at the following addresses, with the specified building owners:

Additional VI building	***Parcel***	***Building Owner***
2232 East River Road	3251	Quinn Ogletree
2373 East River Road	3262	Jim Worley
2391 East River Road	3263	Jim Worley
2228 Dryden Road	2943	Richard Rife
2229 Dryden Road	5223	Vinny Nyhan

The Respondents were unable to set up access agreements for the following residential addresses and owners:

Address	***Parcel***	***Building Owner***
2317 East River Road	3255	Believed to be Century Propane
2347 East River Road	3257	Dorothy Moore
2359 East River Road	3258	Dorothy Moore

During the June 15, 2012 conference call, USEPA agreed that the RKI GX-2003 isn't appropriate for use at the Site. Accordingly, field values recorded using the RKI GX-2003 are not discussed in this report or the associated tables.

On July 16, 2012, USEPA, Ohio EPA, CH2M Hill, Dynamac, and the Respondents participated in a conference call. The participants agreed that leak testing any SS location would be limited to no more than 24-hours prior to sample collection at that location. USEPA provided the Respondents with oral permission to use the two SS probes that USEPA Removal Program's contractor, Weston Solutions, installed at Vinny's Bar and Grill. USEPA's On-Scene Coordinator (OSC) and Dynamac outlined their intention to collect SS samples at specific locations that included locations that were outside of the scope of the Respondents' planned work. The participants in the conference call agreed that two options were available should field meter readings of

methane or LEL indicate that the field program should include the collection a fixed gases-only canister as well as an extended TO-15 canister:

- The Respondents could cancel the split sample with USEPA, in order to collect the two canisters for extended TO-15 and fixed gases-only analyses
- The split sample would be collected, with one canister (i.e., USEPA) submitted for extended TO-15 analysis, and the second canister (i.e., Respondents) submitted for fixed gases analyses only

The participants in the conference call agreed that no more than two 6-liter (L) canisters would be collected from a single location at one time, due to the potential radius of influence from multiple canisters.

On August 6, 2012, Ohio EPA requested collection of combustible gas field screening measurements from SS probes in the businesses located at 2015 and 2019 Dryden Road, Parcel 5172 Building 1 (S&J Precision and Overstreet Painting, respectively), and 1951 Dryden Road, Parcel 5172 Building 2 (B&G Trucking Paint Shop). On August 7, 2012, CRA collected the specified measurements on behalf of the Respondents.

On November 29, 2012, USEPA's OSC informed the Respondents that ODH and USEPA concurred with the Respondents and do not consider acetaldehyde a Site contaminant of concern. Accordingly, the Respondents have not included an evaluation of acetaldehyde VI analytical results in this report.

3.0 SAMPLE COLLECTION AND LABORATORY ANALYSIS

3.1 SAMPLE COLLECTION

CRA collected all sub-slab soil vapor, IA, CS, and OA samples in accordance with the procedures outlined in Section 4.2 of the VI Work Plan and the SOPs in Appendix B.1 of the VI Work Plan.

In addition to the installations that CRA completed consistent with the VI Work Plan, Weston Solutions installed two probes in Vinny's Bar and Grill (2229 East River Road, Parcel 5223 Building 1) as part of the USEPA Removal Program's work related to the VI issue at the Site. With USEPA's approval, CRA used these probes to collect SS samples.

A minimum of three probe volumes were purged at a maximum rate of 200 milliliters per minute (mL/min) using a lung box pump prior to sample collection. Disposable Teflon tubing and fittings used during the sampling were discarded upon completion of each sample. Sample collection was performed using laboratory-supplied, pre-cleaned flow controllers and 6-liter capacity SUMMA canisters that were batch-certified for industrial samples and individually certified for residential samples. The approximate flow rates to fill 6-liter SUMMA canisters over 8 and 24- hour periods are 12.5 and 4.17 mL/min, respectively.

Weather conditions at the time of sampling were obtained from Weather Underground's website for the University of Dayton weather station (KOHDAYTO14), and recorded on the Vapor Intrusion Sampling Field Data Sheets, which are provided in Appendix B.

CRA collected field duplicates at a rate of one duplicate sample per 10 investigative samples, in accordance with the QAPP. CRA shipped Round 1 samples to TestAmerica Burlington, Vermont for VOCs analyses using USEPA Method TO-15, "Determination of Volatile Organic Compounds (VOC) in air collected in specially-prepared canisters and analyzed by gas chromatography/mass spectrometry (GC/MS)" (USEPA, January 1999). CRA shipped all remaining samples to TestAmerica Knoxville, Tennessee for analysis of volatile organic compounds (VOCs) using USEPA Method TO-15. CRA submitted selected samples to TestAmerica Knoxville for methane, or methane, ethane, and ethene analysis by ASTM Method D-1946. CRA shipped samples to the University of Earth Sciences in California for analysis of radon by EPA method GS: Grab Sample/Scintillation cell counting. Copies of the laboratory analytical reports are included in Appendix C.

On August 11, 2012, three samples collected from 2153 Dryden Road, 2215, and 2219 East River Road, Buildings 1 and 2 on Parcel 3207, occupied by Globe Equipment, had vacuums greater than -10 inches of mercury (" Hg) after approximately 8.5 hours. As further access was not available, sample collection ended. TestAmerica discovered particulate inside the two flow controllers with the greatest residual vacuums, which likely reduced the flow and resulted in higher than expected remaining vacuums. TestAmerica was able to meet detection limits for these samples. The field and lab measured vacuums are presented in the table below.

Address	*Location (Parcel/Bldg/Probe)*	*Sample ID*	*Field End Sample Vacuum (" Hg)*	*Lab Sample Vacuum (" Hg)*
2153 Dryden Rd.	3207/1/E	SS-38443-081112-GL-077	-17	-16.9
2215 & 2219 East River Rd.	3207/2/F	SS-38443-081112-GL-093	-15.5	-16.2
2215 & 2219 East River Rd.	3207/ 2/D	SS-38443-081112-GL-088	-11	-11.7

3.2 LABORATORY ANALYSIS

CRA reviewed the analytical data received from the laboratory to determine conformance with quality assurance guidelines. The data quality assessment and validation reports are provided in Appendix D. Data qualifiers that are required based on the review have been incorporated into the data tables in this report. The overall conclusion of the data quality assessment and validation report is that the data were found to be suitable for their intended use with the qualifications noted.

On August 8, and 10, 2012, TestAmerica informed the Respondents that the laboratory received samples IA-38443-073112-GL-014 (collected from 2233 East River Road, Parcel 3253, Building 1 (indoor air duplicate sample)) and SS-38443-073012-GL-002 (collected from 2229 Dryden Road, Parcel 5223 Building 1, Probe B), under vacuum at -5.6" Hg and -5.5" Hg, respectively. However, the canisters were no longer under vacuum and were at ambient conditions after being on the autosampler for TO-15 analyses, prior to analysis for fixed gases. This indicates that the canister or laboratory autosampler connection leaked, and lab air contamination may have occurred. CRA qualified the analytical results for these two samples as estimated.

4.0 OBSERVATIONS AND RESULTS

4.1 ROUND 1 VI SAMPLE EVENT

In January 2012, CRA collected SS soil vapor samples from 17 of the 28[2] VI study buildings. CRA collected CS samples from three of the 28 VI study buildings. CRA measured and recorded combustible gas values only (i.e., no analytical samples collected) at six of the 28 VI study buildings; these buildings were not designed for occupancy or did not contain floor slabs. CRA collected an IA sample in one of the 28 VI study buildings (2233 Front East River Road, Parcel 3253 Building 1). CRA did not collect a SS sample from under one building (1951 Dryden Road, Parcel 5171 Building 3) because the building is constructed of a steel frame, covered with fabric, with retractable canvas flaps at both ends, and is placed on asphalt.

CRA compared the analytical results to RSLs in accordance with the VI Work Plan. The basis for the RSLs is presented in Section 1.2, above. In accordance with the USEPA Region 5 Vapor Intrusion Guidance (USEPA 2010), CRA used screening levels corresponding to ELCRs of 1×10^{-6} or 1×10^{-5} to determine action levels requiring additional investigation (i.e., concurrent SS and IA sampling), or removal and remedial actions, respectively.

CRA compared the January 2012 SS analytical results to generic SVSLs for further investigation corresponding to an ELCR of 1×10^{-6} or HI=0.1, in indoor air assuming a DAF of 0.1. CRA compared the January 2012 CS analytical results to crawl space screening levels (CSSLs) for further investigation corresponding to an ELCR=10^{-5} or HI=1 in indoor air assuming a DAF of 1, i.e., no attenuation occurs between the crawl space and indoor air. CRA compared the January 2012 IA analytical results to indoor air screening levels (IASLs) for mitigation corresponding to an ELCR=10^{-5} or HI=1 in indoor air.

January 2012 SS sample concentrations were greater than SVSLs for further investigation in samples collected from the 14 buildings that are specified in the following table.

[2] S&J Precision (2015 Dryden Road) and Overstreet Painting (2019 Dryden Road) are treated as one building in this report.

Parcel/Building	*Address*	*Business/Tenant*
3207/1	2153 Dryden Road	Globe Equipment
3207/2	2215 & 2219 Dryden Road	Globe Equipment
5054/1	1901 Dryden Road	Valley Asphalt
5054/2	1903 Dryden Road	Valley Asphalt
5054/4	1901 Dryden Road	Valley Asphalt
5054/5	1901 Dryden Road	Valley Asphalt
5171/1	1951 Dryden Road	B&G Trucking
5171/2	1951 Dryden Road	B&G Trucking
5172/1	2015/2019 Dryden Road	S&J Precision/Overstreet Painting
5172/2	2003 Dryden Road	Bullseye Amusements
5172/3	2019 Dryden Road	Overstreet Painting
5173/1	2031 Dryden Road	SIM Trainer
5174/1	2045 Dryden Road	Command Roofing
5175/1	2075 Dryden Road	Former Alliance Equipment and Supply

In accordance with the VI Work Plan, CRA collected follow-up concurrent IA, OA, and SS samples from these 14 buildings in March 2012. The March 2012 Round 1 follow-up VI sampling event results are summarized in Section 4.2, below. The January 2012 Round 1 VI sample event CS, IA, and the remaining SS sample concentrations were less than the applicable screening levels.

TCE concentrations in SS samples collected from sub-slab probes in 2015 and 2019 Dryden Road, Parcel 5172 Building 1 (S&J Precision and Overstreet Painting), and 1951 Dryden Road, Parcel 5171 Building 2 (B&G Trucking) were greater than 1,000 times the applicable screening level, indicating a more rapid response may be required. As previously discussed in Section 2.1, USEPA agreed to delay submission of mitigation plans for the S&J Precision and Overstreet Painting building until after the completion of the Round 1 follow-up VI sample event. During the June 2011 building survey, CRA observed a can of PCE in 2015 Dryden Road (S&J Precision). During the December 2011 SS probe installations at S&J Precision, CH2M Hill took photographs of the chemicals stored on top of cabinets, due to the potential for contributions to indoor air quality.

Round 1 VI exceedances are depicted on the individual building figures (Figures 2.1 to 2.27). A summary of the Round 1 VI sampling event SS analytical results is presented in Table 4.1. A summary of the Round 1 VI sampling event IA analytical results is presented in Table 4.2. Copies of the laboratory analytical reports are provided in Appendix C.1.

4.1.1 EXPLOSIVE GAS FIELD READINGS

In January 2012, CRA measured field methane readings (6.4 to 7.6 percent methane) at 1903 Dryden Road, Parcel 5054 Building 2 (Valley Asphalt Quonset Hut), Probe A (warehouse area) that were greater than 100 percent of the LEL (5 percent methane by volume). On January 12, 2012, CRA measured field methane values (1.1 to 1.2 percent methane) at 2031 Dryden Road, Parcel 5173 Building 1 (SIM Trainer), Probe C (storage area), that were greater than 10 percent of the LEL (0.5 percent methane by volume).

On January 9, 2012, the Respondents provided email notification to USEPA and the Ohio EPA pertaining to explosive gas field readings from SS soil vapor in warehouse probe (Probe A) installed under the Valley Asphalt Quonset Hut. The initial Probe A explosive gas concentration was 6.4 percent as methane by volume, which was greater than the LEL of 5 percent.

On January 10, 2012, in accordance with OAC 3745-27-12, the Respondents contacted representatives of Public Health – Dayton and Montgomery County (PHDMC), City of Moraine Fire Divisions, and Moraine Police Division[3] via telephone to provide oral notification of the LEL readings. On January 11, 2012, the Respondents issued letters via email to the above-mentioned agencies, providing written notification of the LEL readings.

On January 16, 2012, the Respondents emailed a letter to USEPA and Ohio EPA describing the steps taken or to be taken to ensure the protection of human health and the environment, as a result of the LEL readings in the Quonset Hut Probe A. Respondents submitted this letter in accordance with the requirements of OAC 3745-27-12(E)(5)(g)(i).

Beginning on January 19, 2012, CRA measured and recorded weekly (when access could be obtained) field combustible gas measurements from IA and all SS soil vapor probes in the Valley Asphalt Quonset Hut and from Probe C in the SIM Trainer storage area.

On January 24, 2012, the Respondents submitted an Explosive Gas Mitigation Work Plan to USEPA, Ohio EPA, and PHDMC for 1903 Dryden Road, Valley Asphalt Parcel 5054 Building 2. On April 10, 2012, USEPA submitted an email to the Respondents and

[3] When the Respondents originally telephoned the Moraine Police Division on January 10, 2012, the Moraine Police directed the Respondents to report the issue to an individual with the City of Moraine Fire Division. The Respondents reported the issue to a representative of the Moraine Police Division on January 11, 2012.

Valley Asphalt, providing comments on the Explosive Gas Mitigation Work Plan for Valley Asphalt Building 2.

In accordance with the requirements of OAC 3745-27-12(E)(5)(g)(i), the Respondents submitted monthly letters to USEPA, Ohio EPA, and PHDMC, (February 8, March 9, April 9, and May 8, 2012) summarizing weekly explosive gas monitoring results for 1903 Dryden Road, Valley Asphalt, Parcel 5054 Building 2. On May 11, 2012, Ohio EPA notified CRA that they did not require the monthly reports any more. On June 1, 2012, the Respondents provided email notification to USEPA that the monthly LEL report would no longer be issued. On June 11, 2012, USEPA requested continuation of weekly LEL monitoring and monthly reporting of results. On June 20, 2012, the Respondents submitted a letter summary of the weekly explosive monitoring results for 1903 Dryden Road. Beginning in July 2012, the Respondents included weekly explosive gas monitoring results in the monthly progress reports.

In accordance with USEPA comments on the July 2012 Progress Report, received on August 10, 2012, CRA recorded the following additional information during weekly field combustible gas screening:

- Weather conditions (temperature, incidents of recent precipitation)
- Screening measurements from all SS soil vapor probes and IA in SIM Trainer, (i.e., Probes A and B), dependent upon firing range business operations and available access
- Measurements recorded with and without the Landtec GEM 2000 carbon filter, i.e., methane and total combustible gases, respectively

The weekly field combustible gas measurements from the Valley Asphalt Quonset Hut and SIM Trainer to November 29, 2012 are presented in Tables 4.3 and 4.4, respectively.

4.2 ROUND 1 FOLLOW-UP VI SAMPLE EVENT

In March 2012, CRA collected concurrent IA, SS, and OA samples in the 14 buildings from which January 2012 sample concentrations were greater than SVSLs for further investigation, in accordance with the VI Work Plan. CRA collected concurrent IA and SS radon samples from some of the Round 1 follow-up sampling buildings to calculate empirical sub-slab soil gas-to-indoor air AFs.

CRA compared the March 2012 SS analytical results to SVSLs for monitoring corresponding to an ELCR=10^{-5} or HI=1 in indoor air assuming a DAF of 0.1. CRA compared the March 2012 IA analytical results to IASLs for mitigation corresponding to an ELCR=10^{-5} or HI=1 in indoor air.

March 2012 SS sample concentrations were greater than SVSLs for monitoring or ODH screening levels in samples collected from the 13 buildings that are specified in the following table.

Parcel/Building	*Address*	*Business/Tenant*
3207/2	2215 & 2219 Dryden Road	Globe Equipment
5054/1	1901 Dryden Road	Valley Asphalt
5054/2	1903 Dryden Road	Valley Asphalt
5054/4	1901 Dryden Road	Valley Asphalt
5054/5	1901 Dryden Road	Valley Asphalt
5171/1	1951 Dryden Road	B&G Trucking
5171/2	1951 Dryden Road	B&G Trucking
5172/1	2015/2019 Dryden Road	S&J Precision/Overstreet Painting
5172/2	2003 Dryden Road	Bullseye Amusements
5172/3	2019 Dryden Road	Overstreet Painting
5173/1	2031 Dryden Road	SIM Trainer
5174/1	2045 Dryden Road	Command Roofing
5175/1	2075 Dryden Road	Former Alliance Equipment and Supply

The SS concentrations in samples collected from Globe Equipment Parcel 3207 Building 1, located at 2153 Dryden Road, were less than SVSLs for monitoring.

March 2012 IA sample concentrations were greater than IASLs for mitigation or ODH screening levels in samples collected from the 6 buildings specified in the following table. However, building-related indoor air VOC levels due to VI were greater than IASLs for mitigation in samples collected from 3 buildings noted in the following table.

Parcel/Building	*Address*	*Business/Tenant*	*VI-related*
5054/5	1901 Dryden Road	Valley Asphalt	No
5171/1	1951 Dryden Road	B&G Trucking	No
5171/2	1951 Dryden Road	B&G Trucking	Yes
5172/1	2015/2019 Dryden Road	S&J Precision/Overstreet Painting	Yes
5172/3	2019 Dryden Road	Overstreet Painting	No
5173/1	2031 Dryden Road	SIM Trainer	Yes

Concentrations of ethylbenzene and m&p-xylenes in the indoor air sample collected near Probe A (IA_A) in 1951 Dryden Road, Parcel 5171 Building 2 (B&G Trucking) were greater than the IASLs for Rapid Response (corresponding to a target ELCR of 10^{-4} or HI=10). However, ethylbenzene was not detected in either the January or March 2012 sample collected from the corresponding sub-slab soil vapor probe, which indicates that the indoor air ethylbenzene concentration is not due to vapor intrusion. Additionally, the Parcel 5171 Building 2 indoor air concentration of total xylenes (6,700 µg/m^3) was an order of magnitude greater than the January and March 2012 sub-slab soil vapor concentrations of 520 µg/m^3 and 440 J[4] µg/m^3 respectively, indicating the indoor air xylenes concentration is not due to vapor intrusion. During the February 16, 2012, Indoor Building Assessments, CRA observed sources of ethylbenzene and xylenes in products located in both of the B&G Trucking buildings.

Based on the Round 1 and Round 1 follow-up VI sampling event results, mitigation work plans were required for the following 4 buildings:

- 1903 Dryden Road, Parcel 5054 Building 2, Valley Asphalt
- 1951 Dryden Road, Parcel 5171 Building 2, B&G Trucking
- 2015/2019 Dryden Road, Parcel 5171 Building 1, S&J Precision/Overstreet Painting
- 2031 Dryden Road, Parcel 5173 Building 1, SIM Trainer

Round 1 Follow-up VI exceedances are depicted on individual building figures (Figures 2.1 to 2.27). A summary of the Round 1 Follow-up VI sampling event SS analytical results is presented in Table 4.5. A summary of the Round 1 Follow-up VI sampling event IA analytical results is presented in Table 4.6. Copies of the laboratory analytical reports are provided in Appendix C.2.

4.3 ROUND 2 VI SAMPLE EVENT

In July and August 2012, CRA collected SS, IA, OA, and/or CS samples in accordance with the following table. CRA measured and recorded combustible gas values only (i.e., no analytical samples collected) in ten buildings; CRA did not collect samples from four buildings because mitigation was already planned based on Round 1 results; the remaining six buildings were not designed for occupancy or did not contain slabs. With the approval of USEPA, CRA did not collect any samples from 2019 Dryden Road,

[4] J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

Parcel 5172 Building 3 (Overstreet Painting storage shed) during the Round 2 VI sample event because the building was not designed for occupancy.

Parcel/Bldg	*Address*	*Business/Tenant*	*Sample Type*	*Combustible Gas Monitoring Only*	*Mitigation Planned Based on Round 1 Results*
2943/15	Village Park Community	Residential Tenant	CS, OA		
2943/115	Village Park Community	Residential Tenant	CS, OA		
3207/1	2153 Dryden Road	Globe Equipment	SS, IA, OA		
3207/2	2215 & 2219 East River Road	Globe Equipment	SS, IA, OA		
3251/1	2232 East River Rd.	Quinn Ogletree	SS		
3253/1	2233 East River Rd.	Ron Barnett	IA, OA		
3253/2	2233 East River Rd.	Ron Barnett garage	N/A	Yes	
3254/1	2233 Rear East River Rd	Middleton Trucking	SS		
3262/1	2373 East River Road	Jim Worley	SS, CS, OA		
3263/1	2391 East River Road	Jim Worley	SS		
4610/A	2225A East River Rd	Residential Tenant	CS, OA		
4610/B	2225B East River Rd	Ron Barnett Construction	SS		
4610/C	2225C East River Rd		N/A	Yes	
4610/D	2225D East River Rd		N/A	Yes	
4610/E	2225E East River Road		SS		
5054/1	1901 Dryden Road	Valley Asphalt	SS, IA		
5054/2	1903 Dryden Road		N/A	Yes	Yes
5054/4	1901 Dryden Road		SS, IA, OA		
5054/5			SS, IA, OA		
5054/6			N/A	Yes	
5054/7			NA	Yes	
5054/MP	1901 Dryden Road	Former Murphy's Plumbing	CS, OA		
5171/1	1951 Dryden Road	B&G Trucking	SS, IA, OA		
5171/2	1951 Dryden Road		N/A	Yes	Yes
5171/4	1915 Dryden Road		CS, OA		
5172/1	2015 & 2019 Dryden Road	S&J Precision/Overstreet Painting	N/A	Yes	Yes

Parcel/Bldg	*Address*	*Business/Tenant*	*Sample Type*	*Combustible Gas Monitoring Only*	*Mitigation Planned Based on Round 1 Results*
5172/2	2003 Dryden Road	Bullseye Amusements	SS, IA, OA		
5172/3	2019 Dryden Road	Overstreet Painting	N/A	Yes	
5173/1	2031 Dryden Road	SIM Trainer	N/A	Yes	Yes
5174/1	2045 Dryden Road	Command Roofing	SS, IA, OA		
5175/1	2075 Dryden Road	Former Alliance Equipment & Supply	SS, IA, OA		
5223/1	2229 Dryden Road	Vinny's Bar & Grill	SS		

For the eight buildings where CRA collected only SS samples (i.e., no IA samples), CRA compared the analytical results to SVSLs for further investigation corresponding to an ELCR=10^{-6} or HI=0.1 in indoor air assuming a DAF of 0.1. For buildings where CRA collected concurrent IA/CS and SS samples, CRA compared the SS analytical results to SVSLs for monitoring corresponding to an ELCR=10^{-5} or HI=1 in indoor air assuming a DAF of 0.1. CRA compared all IA and CS analytical results to IASLs for mitigation or CSSLs for further investigation, both of which correspond to an ELCR=10^{-5} or HI=1 in indoor air.

Round 2 2012 SS sample concentrations were greater than SVSLs for further investigation or ODH screening levels in samples collected from the four buildings specified in the following table. In accordance with the VI Work Plan, CRA collected follow-up concurrent IA, OA, and SS samples from these five buildings in September 2012. The September 2012 Round 2 follow-up VI sampling event results are summarized in Section 4.4.

Parcel/Building	*Address*	*Business/Tenant*
3251/1	2232 East River Road	Quinn Ogletree
3254/1	2233 Rear East River Road	Middleton Trucking
3262/1	2373 East River Road	Jim Worley
3263/1	2391 East River Road	Jim Worley

Round 2 SS sample concentrations were greater than SVSLs for monitoring or ODH screening levels in samples collected from the eight buildings specified in the following table. The SS concentrations in samples collected from Globe Equipment Parcel 3207 Building 1, located at 2153 Dryden Road, were less than SVSLs for monitoring.

Parcel/Building	*Address*	*Business/Tenant*
3207/2	2215 & 2219 Dryden Road	Globe Equipment
5054/1	1901 Dryden Road	Valley Asphalt
5054/4	1901 Dryden Road	Valley Asphalt
5054/5	1901 Dryden Road	Valley Asphalt
5171/1	1951 Dryden Road	B&G Trucking
5172/2	2003 Dryden Road	Bullseye Amusements
5174/1	2045 Dryden Road	Command Roofing
5175/1	2075 Dryden Road	Former Alliance Equipment and Supply

Round 2 IA and CS sample concentrations were greater than IASLs for mitigation and CSSLs for further investigation or ODH indoor air screening levels in samples collected from the seven buildings specified in the following table.

Parcel/Building	*Address*	*Business/Tenant*	*VI-related*
2943/Unit 15	Village Park Community	Residential tenant	Further investigation required
3253/1	2233 East River Road	Ron Barnett	
4610/A	2225A East River Road	Residential tenant	
5054/MP	1901 Dryden Road	Former Murphy's Plumbing	
5054/1	1901 Dryden Road	Valley Asphalt	Yes
5054/5	1901 Dryden Road	Valley Asphalt	No
5174/1	2045 Dryden Road	Command Roofing	No

The TCE concentration in an IA sample (270 µg/m^3) collected from 2045 Dryden Road, Parcel 5174 Building 1, occupied by Command Roofing, was greater than the IASL for rapid response (Target HI = 10; 88 µg/m^3). TCE was not detected in the co-located SS soil vapor Probe E, but was detected in SS samples collected from Probes B, C, and D at concentrations greater than the SVSL for monitoring. Based on multiple lines of evidence, the Round 2 IA TCE concentration does not appear to be due to vapor intrusion. TCE was not present in the Round 1 follow-up March 2012 Command Roofing indoor air samples at concentrations greater than the IASLs. In March and August 2012, the Respondents collected radon samples from three paired SS and IA Command Roofing locations. The following table presents a summary of August 2012 Command Roofing radon concentrations and associated AFs:

Sample Location	*Radon Concentration (pCi/L)*	*Attenuation Factor*	*Average Building Attenuation*
IA_A	0.80	0.00126	0.00223
A	634		
IA_C	0.89	0.00119	
C	748		
IA_E	1.30	0.00425	
E	306		

Note:

pCi/L – picocuries per Liter

As the March 2012 IA TCE analytical results were not greater than applicable screening levels, and the ratio of the August 2012 IA to SS TCE concentrations was significantly greater than the calculated AFs, background sources likely contributed to the August 2012 IA TCE result of 270 µg/m^3. The CRA field technicians reported that there were operations ongoing on the day of sampling, which noticeably impacted indoor air with odors that may have affected the IA quality. CRA collected confirmatory concurrent SS and IA samples from Command Roofing Probe E in September 2012. The confirmatory sample results are discussed in Section 4.4, below.

Round 2 VI concentrations greater than the screening criteria are depicted on individual building figures (Figures 2.1 to 2.33). Summaries of the Round 2 VI sampling event industrial SS soil vapor, industrial IA, residential SS soil vapor, and residential IA analytical results are presented in Tables 4.7, 4.8, 4.9, and 4.10, respectively. Copies of the laboratory analytical reports are provided in Appendix C.3.

4.4 ROUND 2 FOLLOW-UP VI SAMPLE EVENT

In September 2012, CRA collected concurrent IA, SS or CS, and OA samples in or adjacent to nine buildings. CRA collected concurrent IA and SS radon samples from some of the Round 2 follow-up sampling buildings to calculate empirical sub-slab soil gas-to-indoor air AFs.

CRA compared the September 2012 SS analytical results to SVSLs for monitoring corresponding to an ELCR=10^{-5} or HI=1 in indoor air assuming a DAF of 0.1. CRA

compared the September 2012 IA analytical results to IASLs for mitigation corresponding to an ELCR=10^{-5} or HI=1 in indoor air.

September 2012 SS sample concentrations were greater than SVSLs for monitoring or ODH screening levels in samples collected from the two buildings specified in the following table.

Parcel/Building	*Address*	*Business/Tenant*
5054/4	1901 Dryden Road	ValleyAsphalt
5174/1	2045 Dryden Road	Command Roofing

September 2012 IA sample concentrations were greater than IASLs for mitigation or ODH screening levels in samples collected from six buildings. The naphthalene indoor air concentration in the sample collected from Parcel 2943 Unit 15 was greater than IASLs for mitigation, but was less than the ODH indoor air residential screening level. The indoor air VOC levels at the six remaining buildings were not due to VI.

Parcel/Building	*Address*	*Business/Tenant*	*VI-related*
2943/Unit 15	Village Park Community	Residential tenant	No
3251/1	2232 East River Road	Quinn Ogletree	No
3254/1	2233 Rear East River Road	Middleton Trucking	No
3262/1	2373 East River Road	Jim Worley	No
3263/1	2391 East River Road	Jim Worley	No
5054/4	1901 Dryden Road	Valley Asphalt	No

The September 2012 IA sample collected from 2045 Dryden Road, Parcel 5174, occupied by Command Roofing, contained TCE at a concentration (0.52 J[5] µg/m^3) less than the applicable criteria (ELCR=30 µg/m^3 and HI=8.8 µg/m^3). The corresponding SS sample contained TCE at a concentration of 180 µg/m^3. The August 2012 IA TCE sample concentration of 270 µg/m^3 was not confirmed by the September sample result. The September sample results were in line with the March 2012 sample results.

The August 2012 IA TCE results from Command Roofing were anomalous, and may have been due to business activities (i.e., storage of materials) during sampling. CRA and TestAmerica reviewed the field sample IDs, SUMMA canister serial numbers, and sample end vacuum values recorded on the field data sheets against the same information recorded by the laboratory on air canister dilution logs which include

5 J – Estimated result.

laboratory sample IDs. The information recorded on the field data sheets and laboratory air canister dilution logs and the final laboratory reports were consistent. There is no indication that the August 2012 Command Roofing sample IDs or results may have been switched.

The duplicate concentrations of cloroform (670/580 µg/m^3) in the indoor air samples collected from 2232 East River Road, Parcel 3251 owned by Quinn Ogletree, were greater than the residential IASLs for high priority/rapid response. The IASLs for high priority/rapid response for chloroform are 11 (ELCR)/1,000 (HI) µg/m^3. Chloroform was detected in the OA sample at a concentration of 20 µg/m^3, which was greater than the residential IASL for high priority/rapid response, and was detected in the corresponding SS sample at a concentration (4.7 µg/m^3) less than the applicable screening level of 11 (ELCR)/1,000 (HI) µg/m^3. The IA concentrations were greater than the SS concentrations. The ratio of the IA to SS chloroform concentrations (142.6) is significantly greater than the conservative AF of 0.1 (ITRC, January 2007). Chloroform was detected in the OA samples at concentrations greater than applicable screening levels. During the building survey, CRA recorded that the occupant(s) of the building are smokers; odors of smoke and food were noted during the survey. Chloroform is a component of cigarette smoke. Based on multiple lines of evidence, the IA concentration chloroform does not appear to be due to vapor intrusion.

Round 2 Follow-up VI exceedances are depicted on individual building figures (Figures 2.1 to 2.33). Summaries of the Round 2 follow-up VI sampling event industrial SS soil vapor, industrial IA, residential SS soil vapor, and residential IA analytical results are presented in Tables 4.11, 4.12, 4.13, and 4.14, respectively. Copies of the laboratory analytical reports are provided in Appendix C.4.

4.5 CUMULATIVE RISK/HAZARDS

In accordance with the VI Work Plan, CRA calculated the cumulative cancer risks and non-cancer hazards in all samples. As stated in a USEPA May 18, 2012 letter that was provided to the Respondents on August 24, 2012, CRA did not include indoor air concentrations of VOCs that were not attributable to the VI pathway in the cumulative risk calculations.

CRA calculated cumulative risks/hazards for all sampling events, on a per building basis, using the following approach, which was approved by USEPA on September 18, 2012:

- Calculate a 95 percent upper control limit (UCL) concentration for each chemical in each medium within each building
- Using a 95 percent UCL concentration, calculate inhalation dose for each chemical in each medium within each building
- Using the inhalation dose and toxicity information, calculate risk for each chemical
- Sum all calculated risks to determine cumulative risk

The cumulative cancer risk was greater than the target risk of $1x10^{-5}$ or the hazard index was greater than the target HI of 1 for the following buildings:

Location (Parcel/Building)	***Address***	***Occupant (Owner)***
2943/15	Village Park Community	Resident
3207/2	2215 & 2219 East River Road	Globe Equipment
3253/1	2233 East River Road	Ron Barnett residence
3262/1	2373 East River Road	Resident (Jim Worley)
3263/1	2391 East River Road	Resident (Jim Worley)
5054/1	1901 Dryden Road	Valley Asphalt
5054/2	1903 Dryden Road	Valley Asphalt
5054/4	1901 Dryden Road	Valley Asphalt
5054/5	1901 Dryden Road	Valley Asphalt
5054/MP	1901 Dryden Road	Former Murphy's Plumbing
5171/1	1951 Dryden Road	B&G Trucking
5171/2	1951 Dryden Road	B&G Trucking
5172/1	2015 & 2019 Dryden Road	Overstreet Painting and S&J Precision
5172/2	2003 Dryden Road	Bullseye Amusements
5172/3	2019 Dryden Road	Overstreet Painting storage shed[6]
5173/1	2031 Dryden Road	SIM Trainer
5174/1	2045 Dryden Road	Command Roofing
5175/1	2075 Dryden Road	Former Alliance Equipment & Supply
5223/1	2229 Dryden Road	Vinny's Bar & Grill

[6] This building is not meant for occupancy and is strictly a storage building.

Summaries of the IA and SS cumulative risks/hazards for industrial and residential scenarios are presented in Tables 4.15, 4.16, 4.17, and 4.18, respectively.

5.0 DISCUSSIONS AND CONCLUSIONS

5.1 NO FURTHER ACTION

Based on the VI sampling events, comparisons of sub-slab and indoor air concentrations to applicable ODH screening levels, additional sampling, analysis, and implementation of interim measures is not warranted for the following buildings:

Location (Parcel/Building)	*Address*	*Occupant (Owner)*
2943 / 14	Village Park Community	Resident
2943/112	Village Park Community	Resident
3207/1	2153 Dryden Road	Globe Equipment
3253/2	2233 East River Road	Ron Barnett (garage)
4610/B	2225B East River Road	Ron Barnett Construction
4610/C	2225C East River Road	Ron Barnett Construction
4610/D	2225D East River Road	Ron Barnett Construction
4610/E	2225E East River Road	Ron Barnett Construction
5054/6	1901 Dryden Road	Valley Asphalt
5054/7	1901 Dryden Road	Valley Asphalt
5171/3	1951 Dryden Road	B&G Trucking
5171/4	1915 Dryden Road	B&G Trucking
5172/3	2019 Dryden Road	Overstreet Painting
5223 / 1	2229 Dryden Road	Vinny's Restaurant

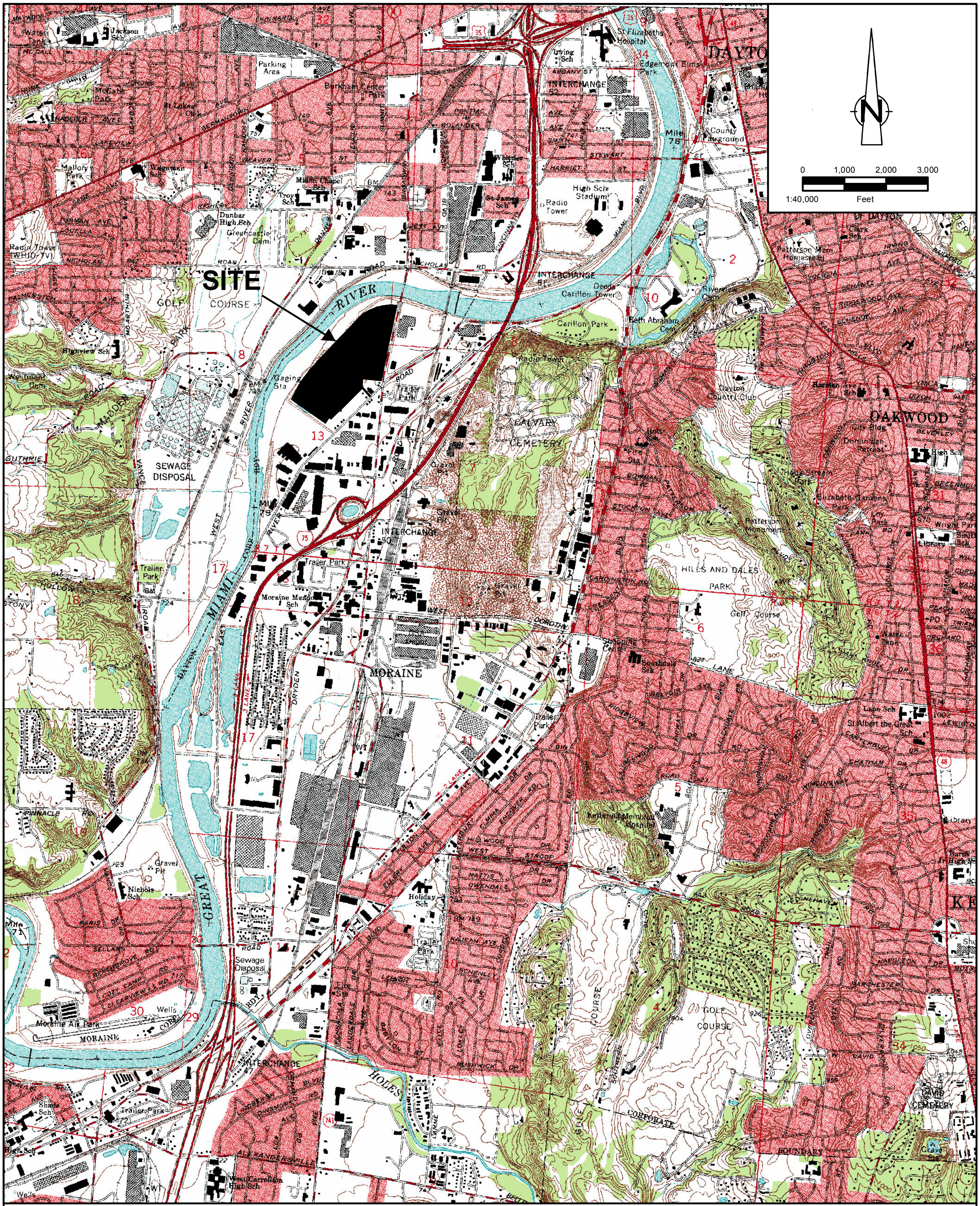
5.2 RESPONSE ACTIONS

Based on the VI sampling events, comparisons of SS and IA concentrations to applicable ODH screening levels, further investigation or removal actions are required for the following 19 buildings:

Location (Parcel/Building)	*Address*	*Occupant (Owner)*
3207/2	2215 & 2219 East River Road	Globe Equipment
3251/1	2232 East River Road	Quinn Ogletree
3253/1	2233 East River Road	Ron Barnett residence
3254/1	2233 Rear East River Road	Middleton Trucking
3262/1	2373 East River Road	Resident (Jim Worley)
3263/1	2391 East River Road	Resident (Jim Worley)
4610/A	2225A East River Road	Resident (Ron Barnett)
5054/1	1901 Dryden Road	Valley Asphalt
5054/2	1903 Dryden Road	Valley Asphalt
5054/4	1901 Dryden Road	Valley Asphalt
5054/5	1901 Dryden Road	Valley Asphalt
5054/MP	1901 Dryden Road	Former Murphy's Plumbing
5171/1	1951 Dryden Road	B&G Trucking
5171/2	1951 Dryden Road	B&G Trucking
5172/1	2015 & 2019 Dryden Road	Overstreet Painting and S&J Precision
5172/2	2003 Dryden Road	Bullseye Amusements
5173/1	2031 Dryden Road	SIM Trainer
5174/1	2045 Dryden Road	Command Roofing
5175/1	2075 Dryden Road	Former Alliance Equipment & Supply

The Respondents are holding weekly meetings or conference calls with the USEPA OSC, Ohio EPA, and USEPA Remedial Program Project Manager to develop a Site-wide mitigation plan and action plans for the specified buildings. Mitigation will be completed under the authority of and will be documented in reports prepared for submission to the USEPA Removal Program.

FIGURES

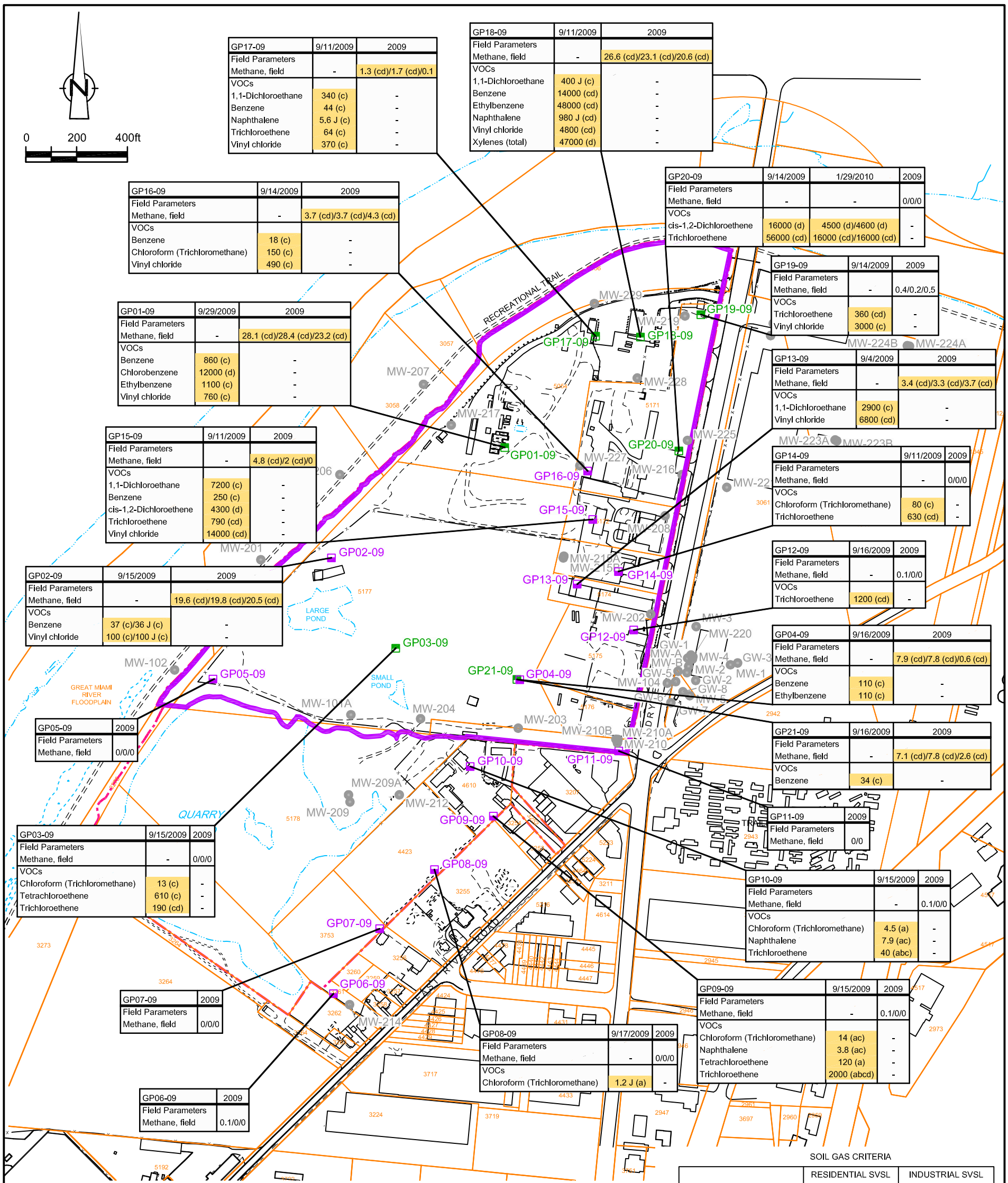


Base Data: Dayton South USGS Quad Image Datum: NAD 83 Projection: Ohio State Plane South

figure 1.1

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

38443-61(REP017)GIS-WA001 Monday, December 03, 2012



GP17-09	9/11/2009	2009
Field Parameters		
Methane, field	-	1.3 (cd)/1.7 (cd)/0.1
VOCs		
1,1-Dichloroethane	340 (c)	-
Benzene	44 (c)	-
Naphthalene	5.6 J (c)	-
Trichloroethene	64 (c)	-
Vinyl chloride	370 (c)	-

GP18-09	9/11/2009	2009
Field Parameters		
Methane, field	-	26.6 (cd)/23.1 (cd)/20.6 (cd)
VOCs		
1,1-Dichloroethane	400 J (c)	-
Benzene	14000 (cd)	-
Ethylbenzene	48000 (cd)	-
Naphthalene	980 J (cd)	-
Vinyl chloride	4800 (cd)	-
Xylenes (total)	47000 (d)	-

GP20-09	9/14/2009	1/29/2010	2009
Field Parameters			
Methane, field	-	-	0/0/0
VOCs			
cis-1,2-Dichloroethene	16000 (d)	4500 (d)/4600 (d)	-
Trichloroethene	56000 (cd)	16000 (cd)/16000 (cd)	-

GP16-09	9/14/2009	2009
Field Parameters		
Methane, field	-	3.7 (cd)/3.7 (cd)/4.3 (cd)
VOCs		
Benzene	18 (c)	-
Chloroform (Trichloromethane)	150 (c)	-
Vinyl chloride	490 (c)	-

GP19-09	9/14/2009	2009
Field Parameters		
Methane, field	-	0.4/0.2/0.5
VOCs		
Trichloroethene	360 (cd)	-
Vinyl chloride	3000 (c)	-

GP01-09	9/29/2009	2009
Field Parameters		
Methane, field	-	28.1 (cd)/28.4 (cd)/23.2 (cd)
VOCs		
Benzene	860 (c)	-
Chlorobenzene	12000 (d)	-
Ethylbenzene	1100 (c)	-
Vinyl chloride	760 (c)	-

GP13-09	9/4/2009	2009
Field Parameters		
Methane, field	-	3.4 (cd)/3.3 (cd)/3.7 (cd)
VOCs		
1,1-Dichloroethane	2900 (c)	-
Vinyl chloride	6800 (cd)	-

GP15-09	9/11/2009	2009
Field Parameters		
Methane, field	-	4.8 (cd)/2 (cd)/0
VOCs		
1,1-Dichloroethane	7200 (c)	-
Benzene	250 (c)	-
cis-1,2-Dichloroethene	4300 (d)	-
Trichloroethene	790 (cd)	-
Vinyl chloride	14000 (cd)	-

GP14-09	9/11/2009	2009
Field Parameters		
Methane, field	-	0/0/0
VOCs		
Chloroform (Trichloromethane)	80 (c)	-
Trichloroethene	630 (cd)	-

GP12-09	9/16/2009	2009
Field Parameters		
Methane, field	-	0.1/0/0
VOCs		
Trichloroethene	1200 (cd)	-

GP02-09	9/15/2009	2009
Field Parameters		
Methane, field	-	19.6 (cd)/19.8 (cd)/20.5 (cd)
VOCs		
Benzene	37 (c)/36 J (c)	-
Vinyl chloride	100 (c)/100 J (c)	-

GP04-09	9/16/2009	2009
Field Parameters		
Methane, field	-	7.9 (cd)/7.8 (cd)/0.6 (cd)
VOCs		
Benzene	110 (c)	-
Ethylbenzene	110 (c)	-

GP05-09	2009
Field Parameters	
Methane, field	0/0/0

GP21-09	9/16/2009	2009
Field Parameters		
Methane, field	-	7.1 (cd)/7.8 (cd)/2.6 (cd)
VOCs		
Benzene	34 (c)	-

GP11-09	2009
Field Parameters	
Methane, field	0/0

GP03-09	9/15/2009	2009
Field Parameters		
Methane, field	-	0/0/0
VOCs		
Chloroform (Trichloromethane)	13 (c)	-
Tetrachloroethene	610 (c)	-
Trichloroethene	190 (cd)	-

GP10-09	9/15/2009	2009
Field Parameters		
Methane, field	-	0.1/0/0
VOCs		
Chloroform (Trichloromethane)	4.5 (a)	-
Naphthalene	7.9 (ac)	-
Trichloroethene	40 (abc)	-

GP07-09	2009
Field Parameters	
Methane, field	0/0/0

GP09-09	9/15/2009	2009
Field Parameters		
Methane, field	-	0.1/0/0
VOCs		
Chloroform (Trichloromethane)	14 (ac)	-
Naphthalene	3.8 (ac)	-
Tetrachloroethene	120 (a)	-
Trichloroethene	2000 (abcd)	-

GP08-09	9/17/2009	2009
Field Parameters		
Methane, field	-	0/0/0
VOCs		
Chloroform (Trichloromethane)	1.2 J (a)	-

GP06-09	2009
Field Parameters	
Methane, field	0.1/0/0

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- MW-206 MONITORING WELL LOCATION
- GP01-09 SHALLOW LANDFILL GAS PROBE
- GP02-09 DEEP LANDFILL GAS PROBE
- PRESUMPTIVE REMEDY AREA

GP03-09	9/15/2009	2009
Field Parameters		
Methane, field	-	0/0/0
VOCs		
Trichloroethene	190 (cd)	-

- SAMPLE IDENTIFICATION
- SAMPLE DATE
- METHANE CONCENTRATION (%)
- CONCENTRATION (µg/m³)
- PARAMETER

J ESTIMATED

19.6/19.8/20.5 METHANE READINGS MEASURED ON SEPT. 18, 2009 / OCT. 14, 2009 / DEC. 9-10, 2009

EXCEEDANCES

NOTE:
1. The SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial and Residential Air.
2. The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct. 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.
3. a = An RSL is not available for cis-1,2-Dichloroethene; the RSL for trans-1,2-Dichloroethene was considered an evaluation surrogate for cis-1,2-Dichloroethene.

SOIL GAS CRITERIA

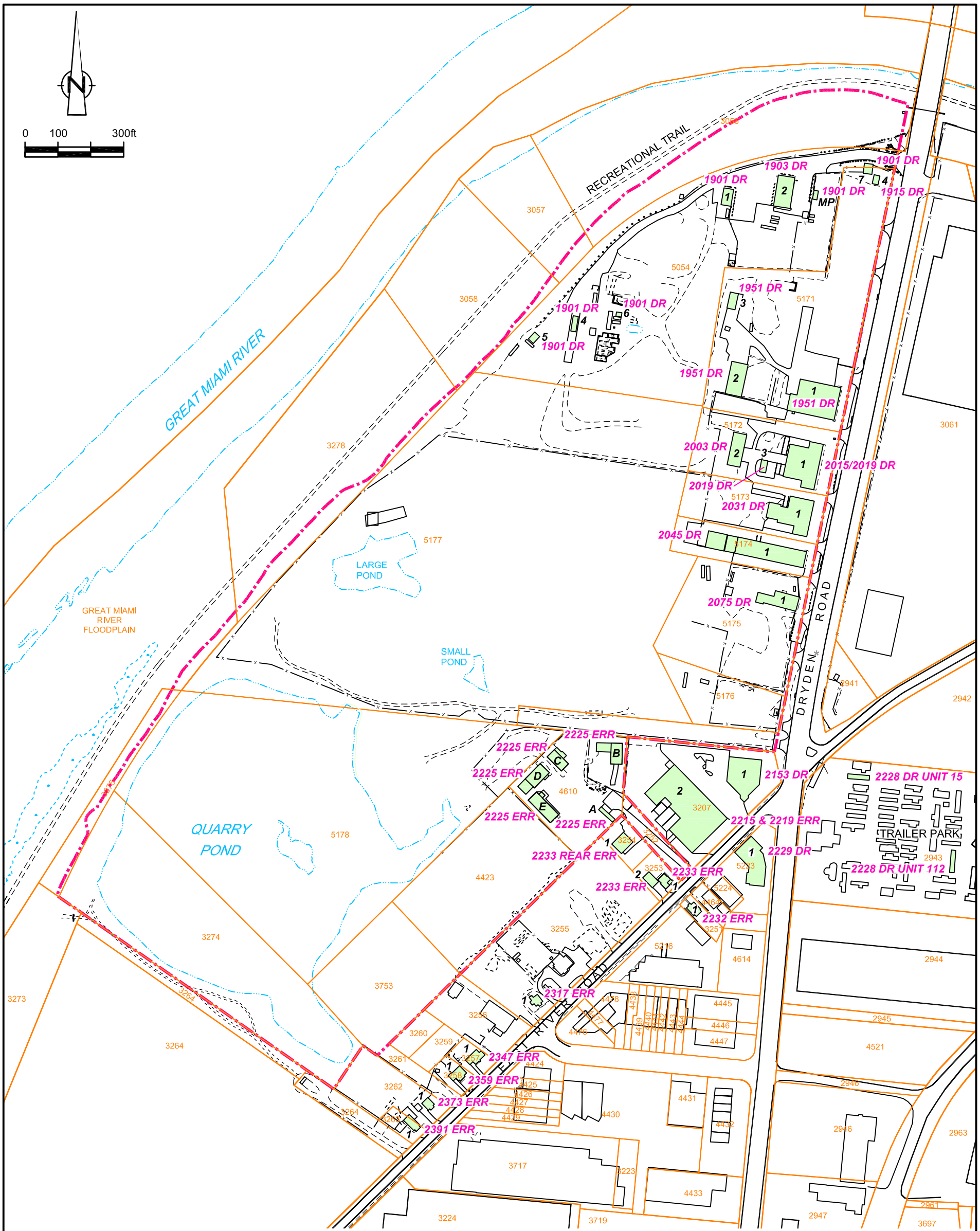
	RESIDENTIAL SVSL		INDUSTRIAL SVSL	
Parameter	ELCR = 10^{-6} a	HI = 0.1 b	ELCR = 10^{-6} c	HI = 0.1 d
1,1-Dichloroethane	15	- -	77	- -
Benzene	3.1	310	16	1300
Chlorobenzene	- -	520	- -	2200
Chloroform (Trichloromethane)	1.1	1000	5.3	4300
cis-1,2-Dichloroethene	- -	630	- -	2600
Ethylbenzene	9.7	10000	49	44000
Naphthalene	0.72	31	3.6	130
Tetrachloroethene	94	420	470	1800
Trichloroethene	4.3	21	30	88
Vinyl chloride	1.6	1000	28	4400
Xylenes (total)	- -	1000	- -	4400
Methane	0.5	0.5	0.5	0.5

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

figure 1.2

SOIL VAPOR RESULTS
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA042 NOV 29/2012



LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- ERR EAST RIVER ROAD
- DR DRYDEN ROAD
- 3263 PARCEL NUMBER
- 1 BUILDING NUMBER
- 2391 ERR ADDRESS

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

figure 1.3
VAPOR INTRUSION INVESTIGATION
BUILDING ADDRESSES AND DESIGNATIONS
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA016 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- VAS01 ▲ VAS SAMPLING LOCATION
- GP21-09 SHALLOW LANDFILL GAS PROBE
- TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5054- Bldg 1	Jan 2012 ug/m3	Mar 2012 ug/m3
Chloroform (Trichloromethane)	7.7 J	0.19 U
Methane, field	0.0/0.0	0.0/0.0
Total HI	38 (k)	-

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT
J ESTIMATED
U NOT DETECTED
SN SCIENTIFIC NOTATION

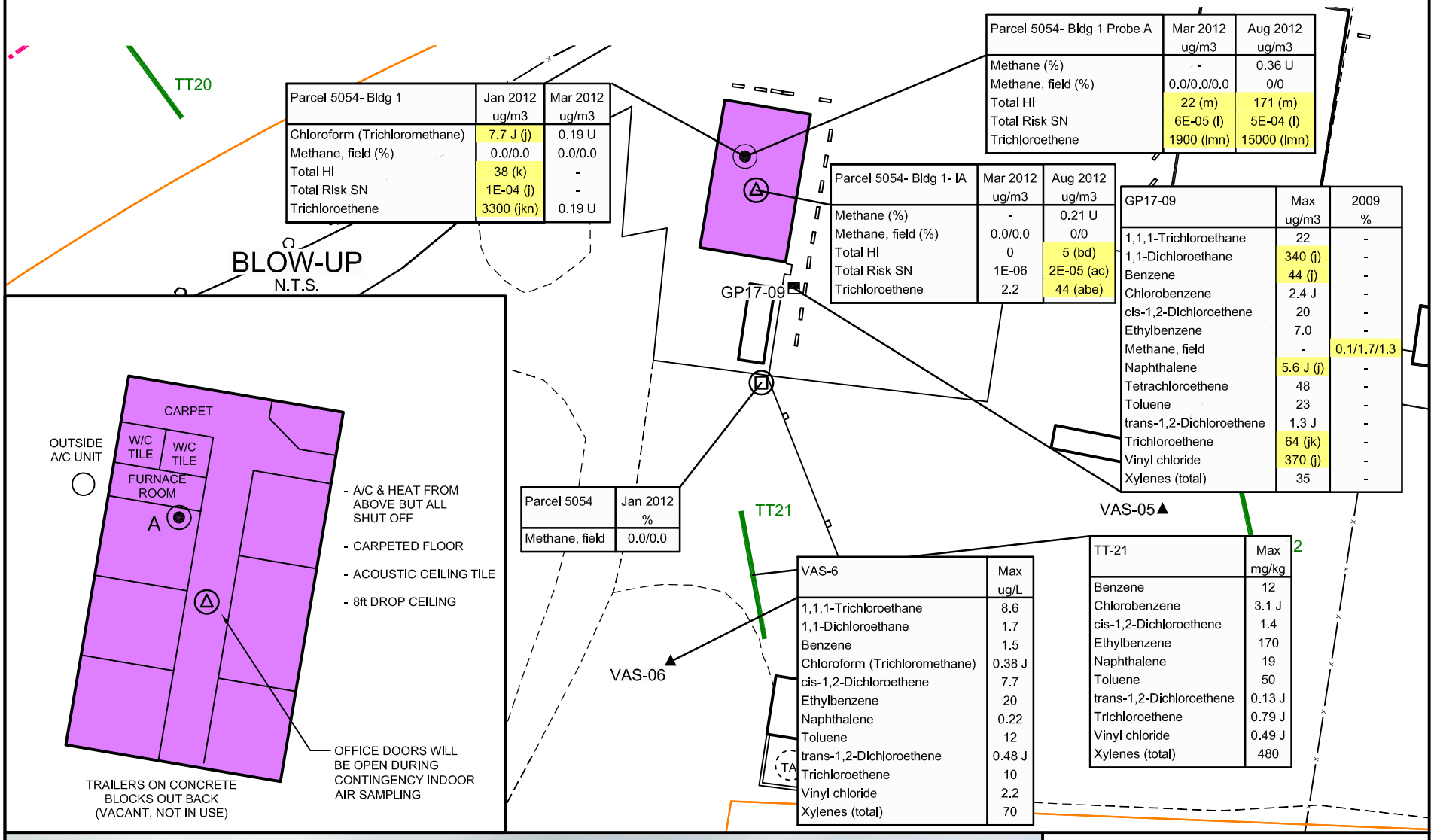
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	5	6
1,1-Dichloroethane	77		770		63	630
Benzene	16	130	160	1300	4	40
Chlorobenzene		220		2200		
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Ethylbenzene	49	4400	490	44000	1300	13000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Naphthalene	3.6	13	36	130	15.2	152
Tetrachloroethene	470	180	4700	1800	170	1700
Toluene		22000		220000		
trans-1,2-Dichloroethene		260		2600		
Trichloroethene	30	8.8	300	88	10	100
Vinyl chloride	28	440	280	4400	4	40
Total HI		1		1		
Total Risk SN	1E-5		1E-5			
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



Parcel 5054- Bldg 1	Jan 2012 ug/m3	Mar 2012 ug/m3
Chloroform (Trichloromethane)	7.7 J (j)	0.19 U
Methane, field (%)	0.0/0.0	0.0/0.0
Total HI	38 (k)	-
Total Risk SN	1E-04 (j)	-
Trichloroethene	3300 (jkn)	0.19 U

Parcel 5054	Jan 2012 %
Methane, field	0.0/0.0

Parcel 5054- Bldg 1 Probe A	Mar 2012 ug/m3	Aug 2012 ug/m3
Methane (%)	-	0.36 U
Methane, field (%)	0.0/0.0/0.0	0/0
Total HI	22 (m)	171 (m)
Total Risk SN	6E-05 (l)	5E-04 (l)
Trichloroethene	1900 (lmn)	15000 (lmn)

Parcel 5054- Bldg 1- IA	Mar 2012 ug/m3	Aug 2012 ug/m3
Methane (%)	-	0.21 U
Methane, field (%)	0.0/0.0	0/0
Total HI	0	5 (bd)
Total Risk SN	1E-06	2E-05 (ac)
Trichloroethene	2.2	44 (abe)

GP17-09	Max ug/m3	2009 %
1,1,1-Trichloroethane	22	-
1,1-Dichloroethane	340 (j)	-
Benzene	44 (j)	-
Chlorobenzene	2.4 J	-
cis-1,2-Dichloroethene	20	-
Ethylbenzene	7.0	-
Methane, field	-	0.1/1.7/1.3
Naphthalene	5.6 J (j)	-
Tetrachloroethene	48	-
Toluene	23	-
trans-1,2-Dichloroethene	1.3 J	-
Trichloroethene	64 (jk)	-
Vinyl chloride	370 (j)	-
Xylenes (total)	35	-

VAS-6	Max ug/L
1,1,1-Trichloroethane	8.6
1,1-Dichloroethane	1.7
Benzene	1.5
Chloroform (Trichloromethane)	0.38 J
cis-1,2-Dichloroethene	7.7
Ethylbenzene	20
Naphthalene	0.22
Toluene	12
trans-1,2-Dichloroethene	0.48 J
Trichloroethene	10
Vinyl chloride	2.2
Xylenes (total)	70

TT-21	Max mg/kg
Benzene	12
Chlorobenzene	3.1 J
cis-1,2-Dichloroethene	1.4
Ethylbenzene	170
Naphthalene	19
Toluene	50
trans-1,2-Dichloroethene	0.13 J
Trichloroethene	0.79 J
Vinyl chloride	0.49 J
Xylenes (total)	480

PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story commercial-use building, constructed prior to 1993. Footprint is 1,500 sq. ft. Primarily office space (6 single offices) with bathrooms and kitchenette. 8 ft. drop ceilings. Brick building with steel cladding, windows are inoperable. Concrete slab-on-grade, covered with wall-to-wall carpeting. Average air tightness, weather seals in fair condition. Heating provided by forced air natural gas furnace, central A/C from exterior ground unit. Exterior openings - vents, utility pipe penetrations, 2 personnel doors.
Building has been vacant for 4 to 5 years.

figure 2.1

PARCEL 5054 - VALLEY ASPHALT PLANT BUILDING 1
1901 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA014 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- BH01-09 SOIL BORING LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP21-09 SHALLOW LANDFILL GAS PROBE
- GP04-09 DEEP LANDFILL GAS PROBE
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5054- Bldg 2- Probe B	Jan 2012 ug/m3	Mar 2012 ug/m3
Methane	0.064 U	0.20 U
Methane, field	0.0/0.0	0.0
Total Hi	1	2 (m)

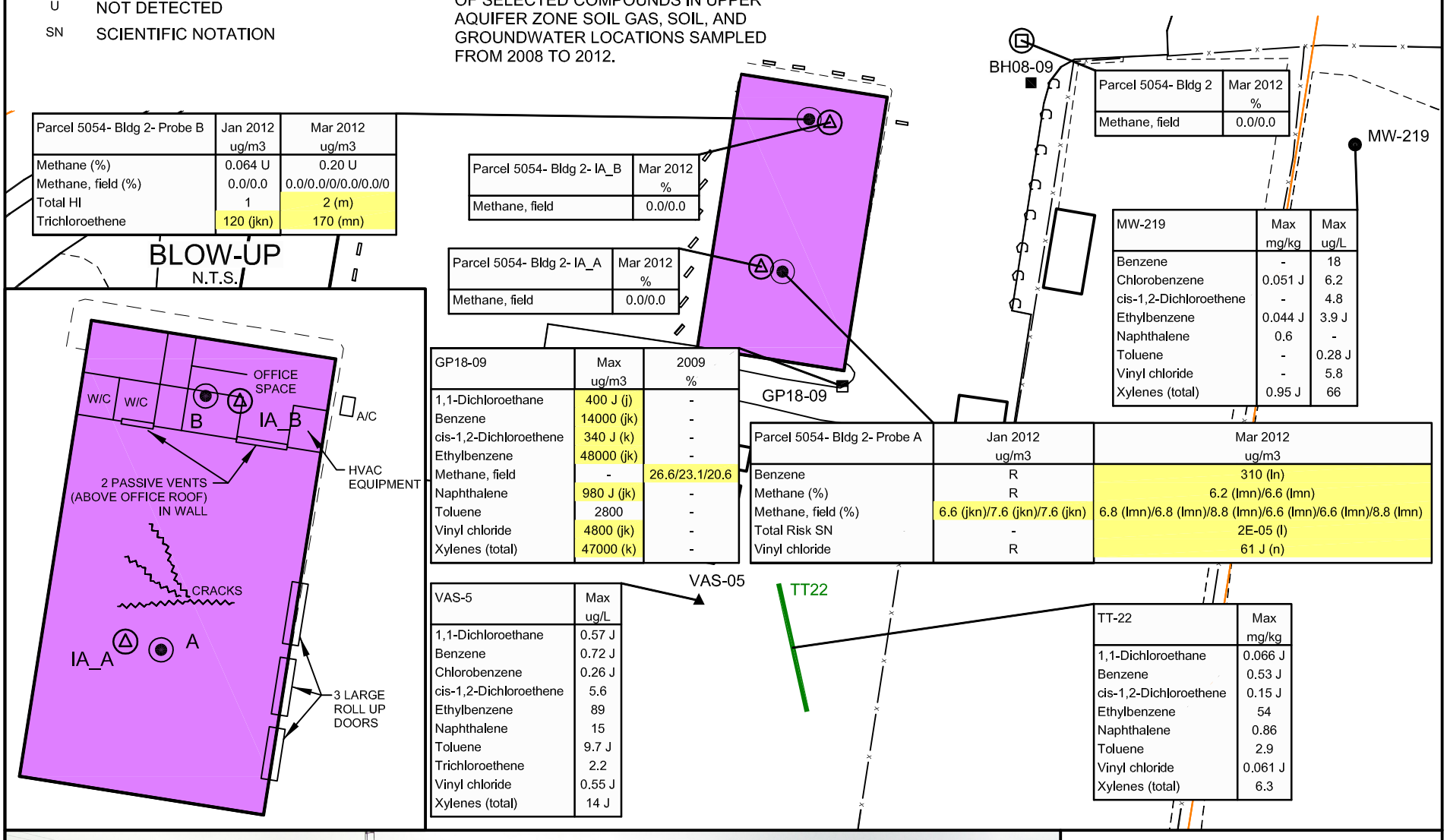
SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT
J ESTIMATED
U NOT DETECTED
SN SCIENTIFIC NOTATION
EXCEEDANCES
Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	5	6
1,1-Dichloroethane	77		770		63	630
Benzene	16	130	160	1300	4	40
cis-1,2-Dichloroethene		260		2600	150	1500
Ethylbenzene	49	4400	490	44000	1300	13000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Naphthalene	3.6	13	36	130	15.2	152
Toluene		22000		220000		
Trichloroethene	30	8.8	300	88	10	100
Vinyl chloride	28	440	280	4400	4	40
Total HI		1		1		
Total Risk SN	1E-5		1E-5			
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.
SOIL GAS PROBE (GP) RESULTS ARE COMPARED TO USEPA INDUSTRIAL SVSL FOR FURTHER INVESTIGATION TARGET ELCR (h) AND SVSL FOR MONITORING TARGET HI (j).



Parcel 5054- Bldg 2- Probe B	Jan 2012 ug/m3	Mar 2012 ug/m3
Methane (%)	0.064 U	0.20 U
Methane, field (%)	0.0/0.0	0.0/0.0/0/0.0/0.0/0
Total HI	1	2 (m)
Trichloroethene	120 (jkn)	170 (mn)

Parcel 5054- Bldg 2- IA_B	Mar 2012 %
Methane, field	0.0/0.0

Parcel 5054- Bldg 2- IA_A	Mar 2012 %
Methane, field	0.0/0.0

Parcel 5054- Bldg 2	Mar 2012 %
Methane, field	0.0/0.0

MW-219	Max mg/kg	Max ug/L
Benzene	-	18
Chlorobenzene	0.051 J	6.2
cis-1,2-Dichloroethene	-	4.8
Ethylbenzene	0.044 J	3.9 J
Naphthalene	0.6	-
Toluene	-	0.28 J
Vinyl chloride	-	5.8
Xylenes (total)	0.95 J	66

GP18-09	Max ug/m3	2009 %
1,1-Dichloroethane	400 J (j)	-
Benzene	14000 (jk)	-
cis-1,2-Dichloroethene	340 J (k)	-
Ethylbenzene	48000 (jk)	-
Methane, field	-	26.6/23.1/20.6
Naphthalene	980 J (jk)	-
Toluene	2800	-
Vinyl chloride	4800 (jk)	-
Xylenes (total)	47000 (k)	-

Parcel 5054- Bldg 2- Probe A	Jan 2012 ug/m3	Mar 2012 ug/m3
Benzene	R	310 (ln)
Methane (%)	R	6.2 (lmn)/6.6 (lmn)
Methane, field (%)	6.6 (jkn)/7.6 (jkn)/7.6 (jkn)	6.8 (lmn)/6.8 (lmn)/8.8 (lmn)/6.6 (lmn)/6.6 (lmn)/8.8 (lmn)
Total Risk SN	-	2E-05 (l)
Vinyl chloride	R	61 J (n)

VAS-5	Max ug/L
1,1-Dichloroethane	0.57 J
Benzene	0.72 J
Chlorobenzene	0.26 J
cis-1,2-Dichloroethene	5.6
Ethylbenzene	89
Naphthalene	15
Toluene	9.7 J
Trichloroethene	2.2
Vinyl chloride	0.55 J
Xylenes (total)	14 J

TT-22	Max mg/kg
1,1-Dichloroethane	0.066 J
Benzene	0.53 J
cis-1,2-Dichloroethene	0.15 J
Ethylbenzene	54
Naphthalene	0.86
Toluene	2.9
Vinyl chloride	0.061 J
Xylenes (total)	6.3

PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story commercial/industrial-use building, constructed prior to 1959. Building divided into two sections with cracked cinder block wall between. Footprint is 4,888 sq. ft. Exterior openings - vents, fans, utility pipe penetrations, windows, bay doors, personnel doors. Building has been vacant for over 10 years.
Northern 1/4 of the building is brick, single story, office space, concrete slab-on-grade with wall-to-wall carpet (strong moldy/musty odor). Average air tightness. Heating provided by forced air natural gas furnace, central A/C from exterior ground unit.
Southern 3/4 of the building is steel, double-arch Quonset hut with bare concrete floor (visibly cracked in areas), used for storage. Not air tight, no weather seals present, broken windows. No HVAC.

figure 2.2

PARCEL 5054 - VALLEY ASPHALT PLANT BUILDING 2
1903 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA015 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- BH01-09 SOIL BORING LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP21-09 SHALLOW LANDFILL GAS PROBE
- CRAWL SPACE AIR SAMPLE LOCATION
- PROPOSED CONTINGENCY INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV NO VALUE

GP09-09	9/15/2009 ug/L
Tetrachloroethene	2000 (B)

SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CRITERIA
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT
J ESTIMATED
U NOT DETECTED
SN SCIENTIFIC NOTATION

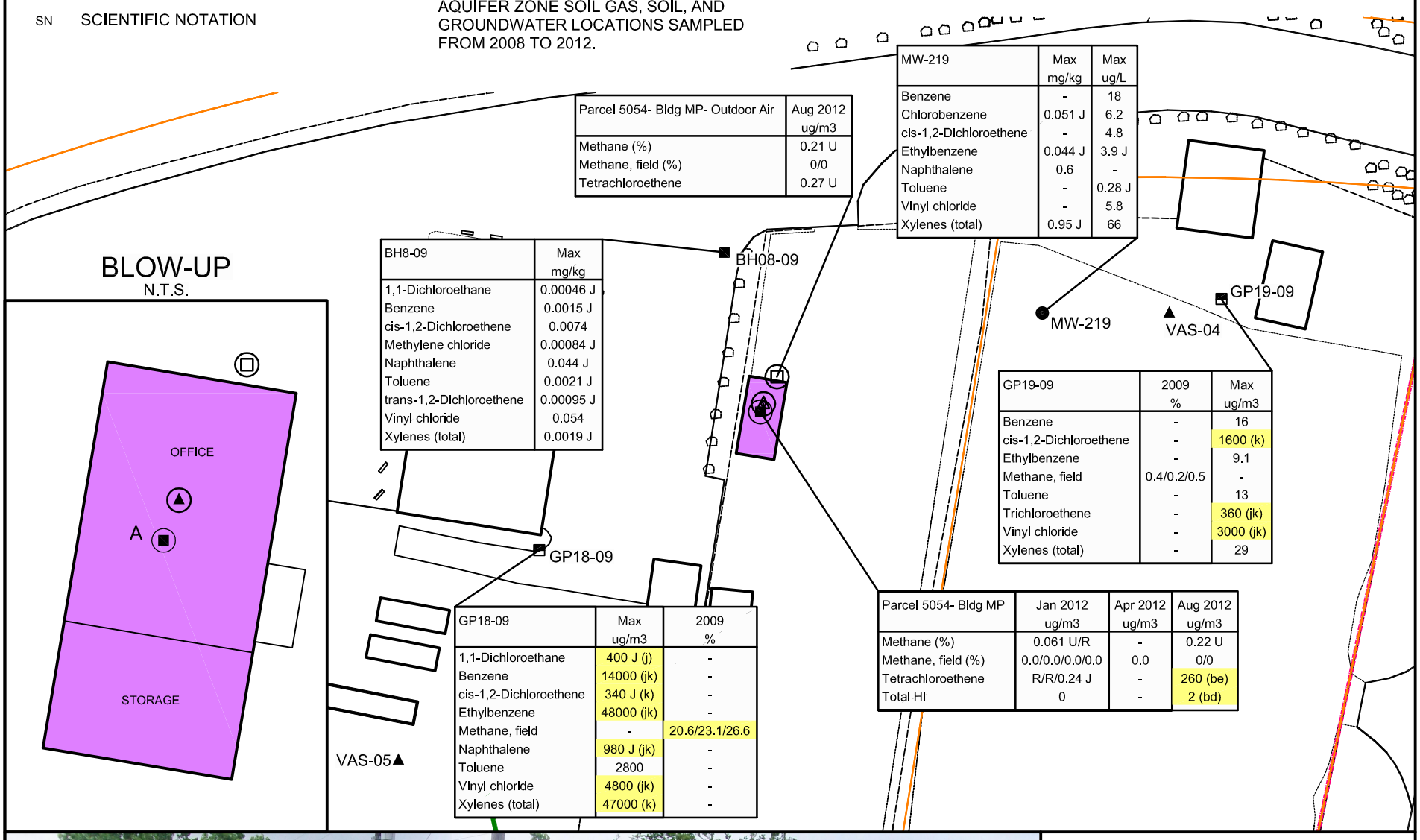
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	5
1,1-Dichloroethane	77		770		63
Benzene	16	130	160	1300	4
cis-1,2-Dichloroethene		260		2600	150
Ethylbenzene	49	4400	490	44000	1300
Methane (%)	0.05	0.05	0.5	0.5	0.05
Methane, field (%)	0.05	0.05	0.5	0.5	0.05
Naphthalene	3.6	13	36	130	15.2
Tetrachloroethene	470	180	4700	1800	170
Toluene		22000		220000	
Vinyl chloride	28	440	280	4400	4
Xylenes (total)		440		4400	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



Parcel 5054- Bldg MP- Outdoor Air	Aug 2012 ug/m3
Methane (%)	0.21 U
Methane, field (%)	0/0
Tetrachloroethene	0.27 U

MW-219	Max mg/kg	Max ug/L
Benzene	-	18
Chlorobenzene	0.051 J	6.2
cis-1,2-Dichloroethene	-	4.8
Ethylbenzene	0.044 J	3.9 J
Naphthalene	0.6	-
Toluene	-	0.28 J
Vinyl chloride	-	5.8
Xylenes (total)	0.95 J	66

BH8-09	Max mg/kg
1,1-Dichloroethane	0.00046 J
Benzene	0.0015 J
cis-1,2-Dichloroethene	0.0074
Methylene chloride	0.00084 J
Naphthalene	0.044 J
Toluene	0.0021 J
trans-1,2-Dichloroethene	0.00095 J
Vinyl chloride	0.054
Xylenes (total)	0.0019 J

GP19-09	2009 %	Max ug/m3
Benzene	-	16
cis-1,2-Dichloroethene	-	1600 (k)
Ethylbenzene	-	9.1
Methane, field	0.4/0.2/0.5	-
Toluene	-	13
Trichloroethene	-	360 (jk)
Vinyl chloride	-	3000 (jk)
Xylenes (total)	-	29

GP18-09	Max ug/m3	2009 %
1,1-Dichloroethane	400 J (j)	-
Benzene	14000 (jk)	-
cis-1,2-Dichloroethene	340 J (k)	-
Ethylbenzene	48000 (jk)	-
Methane, field	-	20.6/23.1/26.6
Naphthalene	980 J (jk)	-
Toluene	2800	-
Vinyl chloride	4800 (jk)	-
Xylenes (total)	47000 (k)	-

Parcel 5054- Bldg MP	Jan 2012 ug/m3	Apr 2012 ug/m3	Aug 2012 ug/m3
Methane (%)	0.061 U/R	-	0.22 U
Methane, field (%)	0.0/0.0/0.0/0.0	0.0	0/0
Tetrachloroethene	R/R/0.24 J	-	260 (be)
Total HI	0	-	2 (bd)

Building Characteristics:
Single-story commercial-use building. 365 sq. ft building on raised foundation, with wood siding, constructed prior to 1950s. No weather seals present, not air tight. Exterior openings - windows, door. No HVAC systems present.
Occupancy - vacant since July 1, 2011.

figure 2.3

PARCEL 5054 - MURPHY'S PLUMBING BUILDING MP
1927 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA021 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP21-09 SHALLOW LANDFILL GAS PROBE
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5054- Bldg 4- IA Basement	Aug 2012 ug/m3	Sep 2012 ug/m3
Methane (%)	-	0.20 U
Methane, field (%)	0/0	0/0

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT
J ESTIMATED
U NOT DETECTED
SN SCIENTIFIC NOTATION

EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	6
Benzene	16	130	160	1300	40
Chlorobenzene		220		2200	
cis-1,2-Dichloroethene		260		2600	1500
Ethylbenzene	49	4400	490	44000	13000
Methane (%)	0.5	0.5	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.5
Toluene		22000		220000	
Trichloroethene	30	8.8	300	88	100
Vinyl chloride	28	440	280	4400	40
Total HI		1		1	
Total Risk SN	1E-5		1E-5		
Xylenes (total)		440		4400	

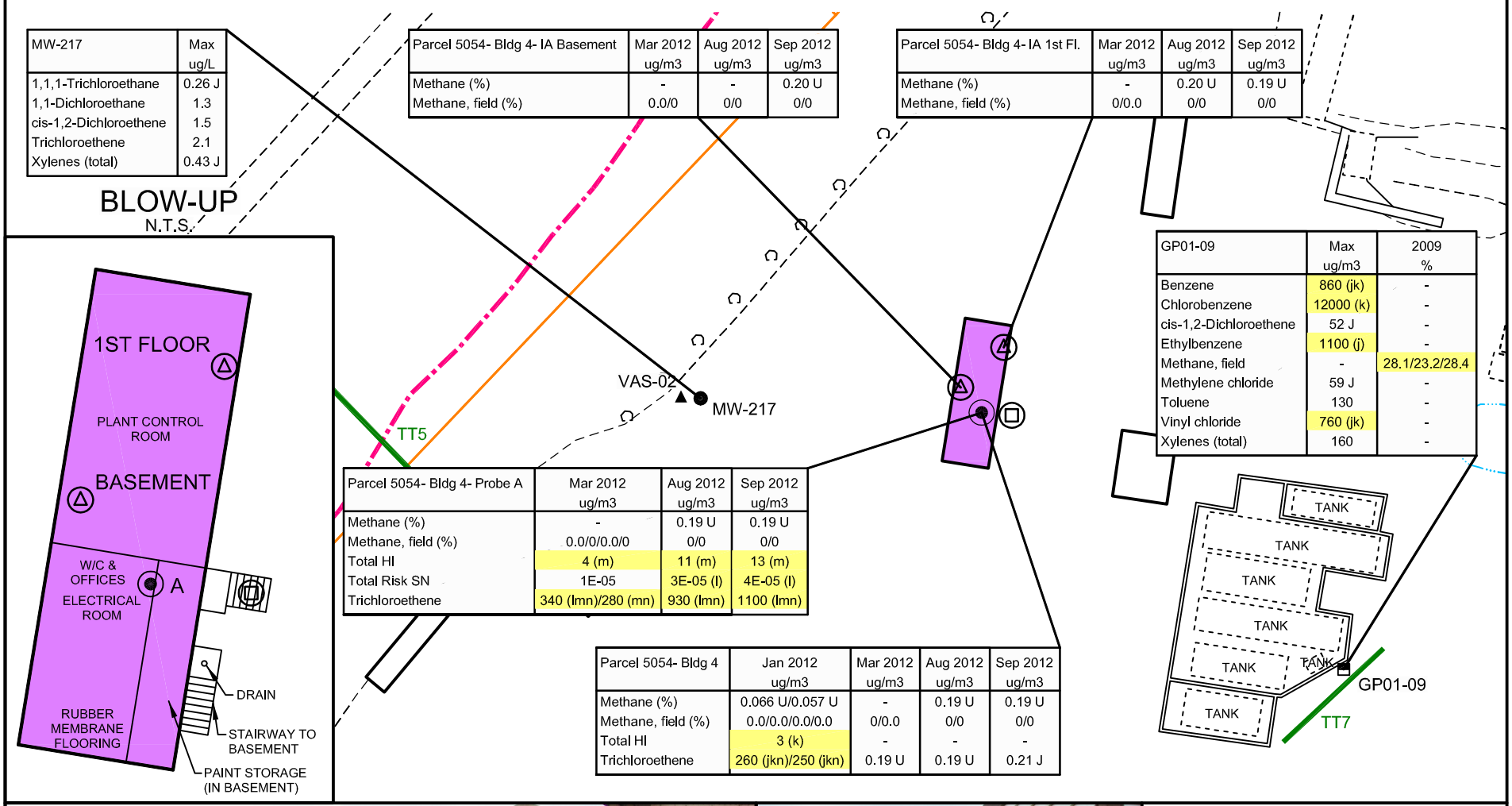
SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.

MW-217	Max ug/L
1,1,1-Trichloroethane	0.26 J
1,1-Dichloroethane	1.3
cis-1,2-Dichloroethene	1.5
Trichloroethene	2.1
Xylenes (total)	0.43 J

Parcel 5054- Bldg 4- IA Basement	Mar 2012 ug/m3	Aug 2012 ug/m3	Sep 2012 ug/m3
Methane (%)	-	-	0.20 U
Methane, field (%)	0.0/0	0/0	0/0

Parcel 5054- Bldg 4- IA 1st Fl.	Mar 2012 ug/m3	Aug 2012 ug/m3	Sep 2012 ug/m3
Methane (%)	-	0.20 U	0.19 U
Methane, field (%)	0/0.0	0/0	0/0



GP01-09	Max ug/m3	2009 %
Benzene	860 (jk)	-
Chlorobenzene	12000 (k)	-
cis-1,2-Dichloroethene	52 J	-
Ethylbenzene	1100 (j)	-
Methane, field	-	28.1/23.2/28.4
Methylene chloride	59 J	-
Toluene	130	-
Vinyl chloride	760 (jk)	-
Xylenes (total)	160	-

Parcel 5054- Bldg 4- Probe A	Mar 2012 ug/m3	Aug 2012 ug/m3	Sep 2012 ug/m3
Methane (%)	-	0.19 U	0.19 U
Methane, field (%)	0.0/0/0.0/0	0/0	0/0
Total HI	4 (m)	11 (m)	13 (m)
Total Risk SN	1E-05	3E-05 (l)	4E-05 (l)
Trichloroethene	340 (lmn)/280 (mn)	930 (lmn)	1100 (lmn)

Parcel 5054- Bldg 4	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3	Sep 2012 ug/m3
Methane (%)	0.066 U/0.057 U	-	0.19 U	0.19 U
Methane, field (%)	0.0/0.0/0.0/0.0	0/0.0	0/0	0/0
Total HI	3 (k)	-	-	-
Trichloroethene	260 (jkn)/250 (jkn)	0.19 U	0.19 U	0.21 J

Building Characteristics:
Split-level, pre-fabricated building on top of poured concrete basement (half below grade). Industrial use, constructed prior to 1993. Footprint is 280 sq. ft. Basement is unfinished, paint storage on shelves. Office space on main level has electric baseboard heat and a window A/C unit with average air tightness. One personnel door to the basement (sometimes left open) and one to the main level. Occupied during weekday work hours by 2 adult workers.

figure 2.4

PARCEL 5054 - VALLEY ASPHALT PLANT BUILDING 4
1901 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA017 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

TT-5	Max mg/kg
cis-1,2-Dichloroethene	0.00062 J
Naphthalene	0.38

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

J ESTIMATED

U NOT DETECTED

SN SCIENTIFIC NOTATION

EXCEEDANCES

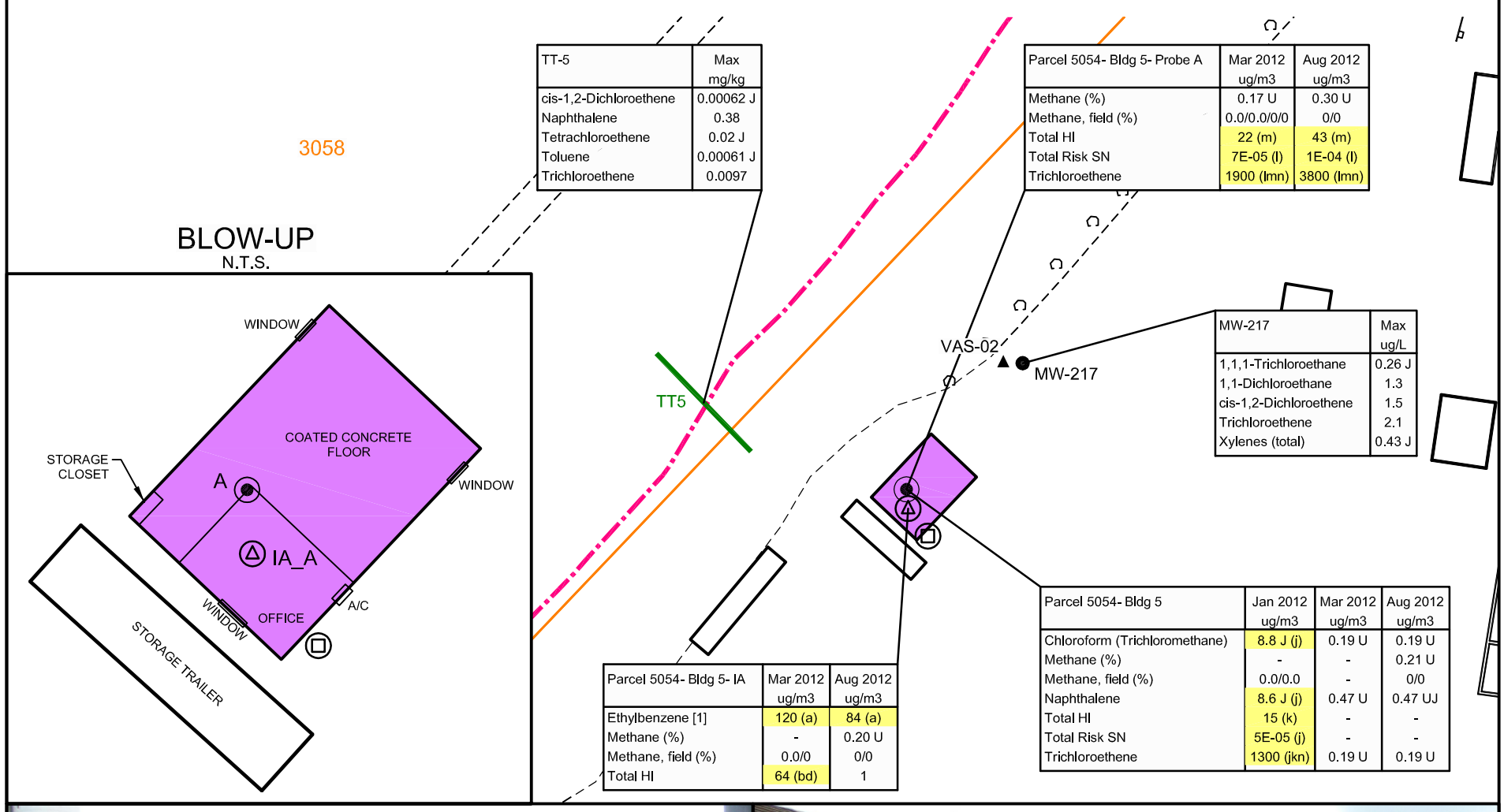
Max — MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 — RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
Ethylbenzene	49	4400	490	44000	1300	13000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Naphthalene	3.6	13	36	130	15.2	152
Trichloroethene	30	8.8	300	88	10	100
Total HI		1		1		
Total Risk SN	1E-5		1E-5			

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



TT-5	Max mg/kg
cis-1,2-Dichloroethene	0.00062 J
Naphthalene	0.38
Tetrachloroethene	0.02 J
Toluene	0.00061 J
Trichloroethene	0.0097

Parcel 5054- Bldg 5- Probe A	Mar 2012 ug/m3	Aug 2012 ug/m3
Methane (%)	0.17 U	0.30 U
Methane, field (%)	0.0/0.0/0/0	0/0
Total HI	22 (m)	43 (m)
Total Risk SN	7E-05 (l)	1E-04 (l)
Trichloroethene	1900 (lmn)	3800 (lmn)

MW-217	Max ug/L
1,1,1-Trichloroethane	0.26 J
1,1-Dichloroethane	1.3
cis-1,2-Dichloroethene	1.5
Trichloroethene	2.1
Xylenes (total)	0.43 J

Parcel 5054- Bldg 5- IA	Mar 2012 ug/m3	Aug 2012 ug/m3
Ethylbenzene [1]	120 (a)	84 (a)
Methane (%)	-	0.20 U
Methane, field (%)	0.0/0	0/0
Total HI	64 (bd)	1

Parcel 5054- Bldg 5	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Chloroform (Trichloromethane)	8.8 J (j)	0.19 U	0.19 U
Methane (%)	-	-	0.21 U
Methane, field (%)	0.0/0.0	-	0/0
Naphthalene	8.6 J (j)	0.47 U	0.47 UJ
Total HI	15 (k)	-	-
Total Risk SN	5E-05 (j)	-	-
Trichloroethene	1300 (jkn)	0.19 U	0.19 U

PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story, industrial use building with steel cladding. Footprint is 594 sq. ft. Approximately 8 ft. high ceilings, inoperable windows. The building contains a testing laboratory and a small office. Building was constructed prior to 1968 (originally located near Building 1), then moved to its current location prior to 1993. Concrete slab-on-grade, freshly epoxy coated floor with some thin cracks. Average air tightness with weather seals in fair condition. Heating provided by forced air natural gas furnace. Window A/C units in laboratory and office.
Exterior openings - vents, fans, and one personnel door. Occupied during weekday work hours by 1 adult worker (office) and variable but rare occupancy by 4 adult workers (laboratory).

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

figure 2.5

PARCEL 5054 - VALLEY ASPHALT PLANT BUILDING 5
1901 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA018 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- GP21-09 SHALLOW LANDFILL GAS PROBE
- TP1 TEST PIT LOCATION
- TT1 TEST TRENCH LOCATION
- INDOOR AIR SAMPLE LOCATION
- NV NO VALUE

0 20 50ft

CHEMICAL NAME	1	2	3	4	6
Benzene	16	130	160	1300	40
Chlorobenzene		220		2200	
cis-1,2-Dichloroethene		260		2600	1500
Ethylbenzene	49	4400	490	44000	13000
Methane (%)	0.5	0.5	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.5
Toluene		22000		220000	
Vinyl chloride	28	440	280	4400	40
Xylenes (total)		440		4400	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.

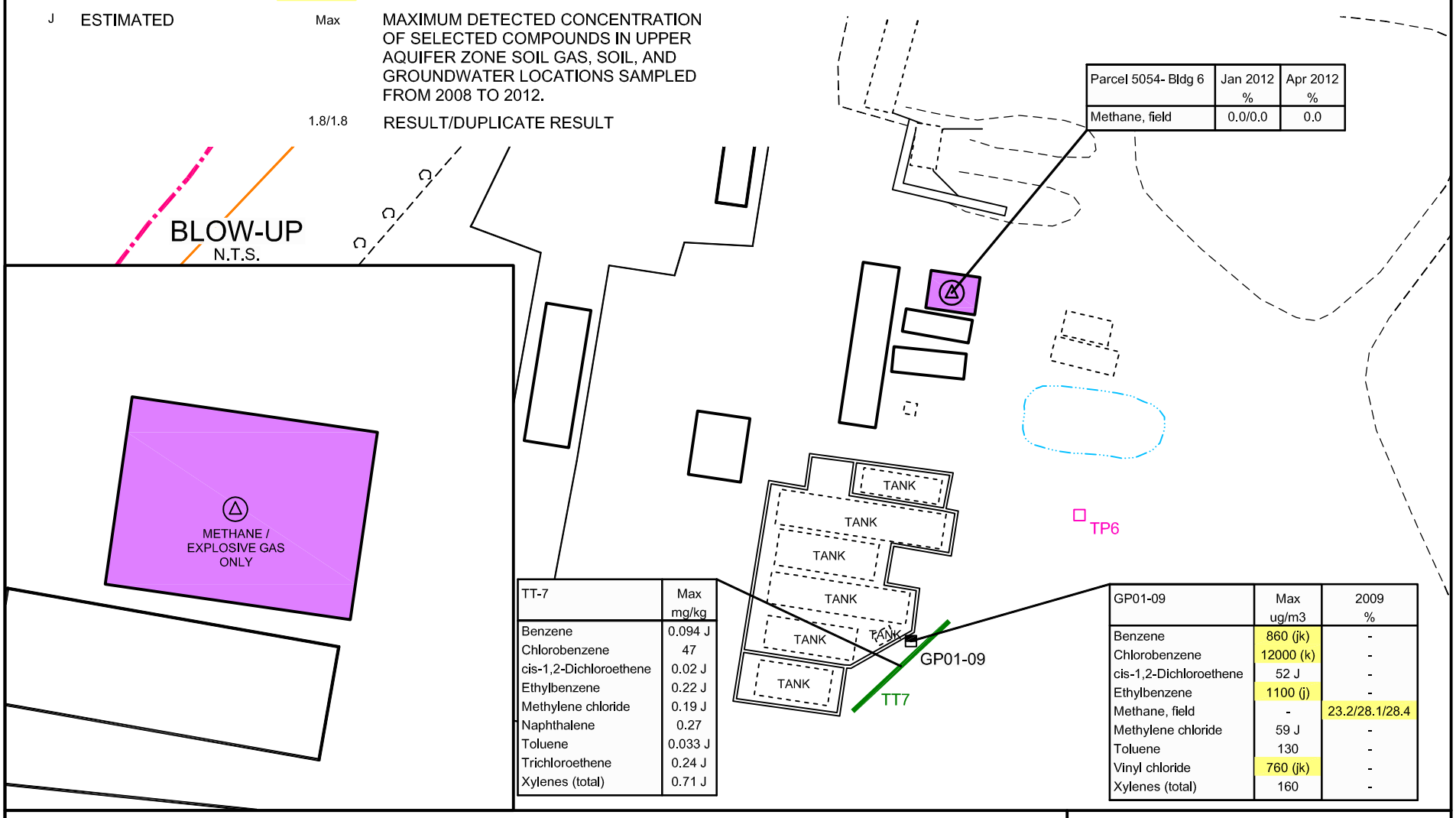
TT-7	Max mg/kg
Benzene	0.094 J
Chlorobenzene	47

- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CONCENTRATION VALUE
- COMPOUND
- EXCEEDANCES

J ESTIMATED

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 RESULT/DUPLICATE RESULT



Parcel 5054- Bldg 6	Jan 2012 %	Apr 2012 %
Methane, field	0.0/0.0	0.0

TT-7	Max mg/kg
Benzene	0.094 J
Chlorobenzene	47
cis-1,2-Dichloroethene	0.02 J
Ethylbenzene	0.22 J
Methylene chloride	0.19 J
Naphthalene	0.27
Toluene	0.033 J
Trichloroethene	0.24 J
Xylenes (total)	0.71 J

GP01-09	Max ug/m3	2009 %
Benzene	860 (jk)	-
Chlorobenzene	12000 (k)	-
cis-1,2-Dichloroethene	52 J	-
Ethylbenzene	1100 (j)	-
Methane, field	-	23.2/28.1/28.4
Methylene chloride	59 J	-
Toluene	130	-
Vinyl chloride	760 (jk)	-
Xylenes (total)	160	-

PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story industrial-use building with steel panels. 218 sq. ft. steel-frame, steel-sided storage shed with earthen floor, constructed prior to 2005. No insulation, not air tight. No HVAC systems present. Exterior openings - vents and personnel door. Building used for chemical storage.
No regular occupancy, storage only

figure 2.6

PARCEL 5054 - VALLEY ASPHALT PLANT BUILDING 6
1901 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA019 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- BH01-09 SOIL BORING LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP21-09 SHALLOW LANDFILL GAS PROBE
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV NO VALUE

0 20 50ft

GP19-09	2009	Max
	%	ug/m3
Benzene	-	16
cis-1,2-Dichloroethene	-	1600

SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

J ESTIMATED

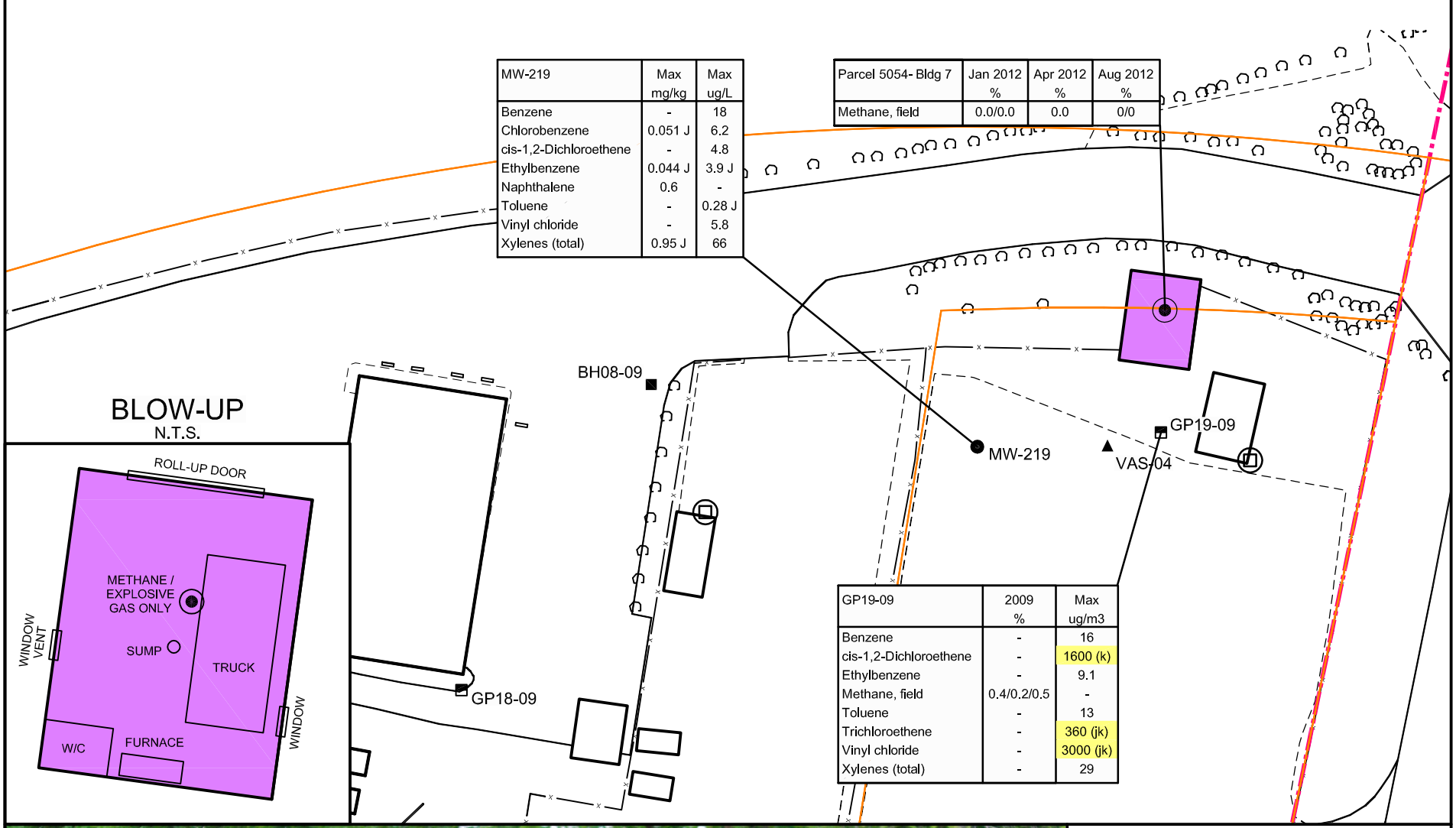
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	6
Benzene	16	130	160	1300	40
cis-1,2-Dichloroethene		260		2600	1500
Ethylbenzene	49	4400	490	44000	13000
Methane (%)	0.5	0.5	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.5
Toluene		22000		220000	
Trichloroethene	30	8.8	300	88	10
Vinyl chloride	28	440	280	4400	40
Xylenes (total)		440		4400	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



Building Characteristics:
Single-story industrial-use garage and storage building. 822 sq. ft. concrete block constructed prior to 1968. A sump with drain pipe present. Heating provided by forced air natural gas wall-mounted heater. Exterior openings - vents, wall openings, utility pipe penetrations, and apparently inoperable bay door with broken panels.
Building use is for storage only.

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

figure 2.7
PARCEL 5054 - BUILDING 7
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA020 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 — MONITORING WELL LOCATION
- VAS01 — VAS SAMPLING LOCATION
- GP21-09 — SHALLOW LANDFILL GAS PROBE
- GP04-09 — DEEP LANDFILL GAS PROBE
- TT1 — TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 60ft

Parcel 5171 - Bldg 1 - Probe C	Jan 2012	Jan 2012
	ug/m3	%
Methane, field	-	0.0
Tetrachloroethene	140	-
Trichloroethene	61	-

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

J ESTIMATED

U NOT DETECTED

SN SCIENTIFIC NOTATION

EXCEEDANCES

Max — MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 — RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
1,1-Dichloroethane	77		770		63	630
1,2,4-Trimethylbenzene		31		310		
Benzene	16	130	160	1300	4	40
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Ethylbenzene	49	4400	490	44000	1300	13000
m&p-Xylenes		440		4400	800	8000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Toluene		22000		220000		
Trichloroethene	30	8.8	300	88	10	100
Vinyl chloride	28	440	280	4400	4	40
Total HI		1		1		
Total Risk SN	1E-5		1E-5			
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
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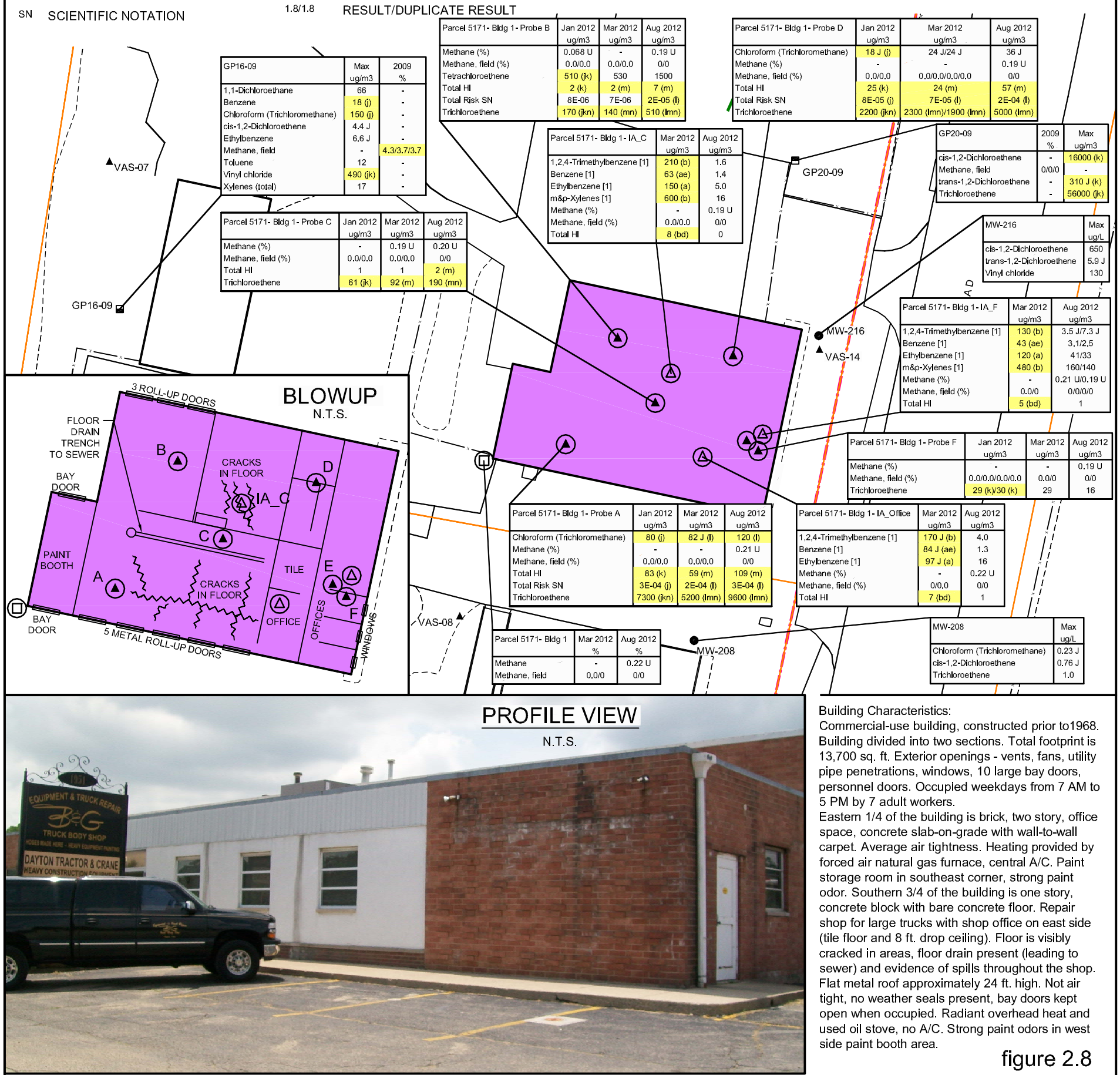
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



GP16-09	Max	2009
	ug/m3	%
1,1-Dichloroethane	66	-
Benzene	18 (j)	-
Chloroform (Trichloromethane)	150 (j)	-
cis-1,2-Dichloroethene	4.4 J	-
Ethylbenzene	6.6 J	-
Methane, field	-	4.3/3.7/3.7
Toluene	12	-
Vinyl chloride	490 (jk)	-
Xylenes (total)	17	-

Parcel 5171- Bldg 1- Probe B	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	0.068 U	-	0.19 U
Methane, field (%)	0.0/0.0	0.0/0.0	0/0
Tetrachloroethene	510 (jk)	530	1500
Total HI	2 (k)	2 (m)	7 (m)
Total Risk SN	8E-06	7E-06	2E-05 (l)
Trichloroethene	170 (jkn)	140 (mn)	510 (lmn)

Parcel 5171- Bldg 1- Probe D	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Chloroform (Trichloromethane)	18 J (j)	24 J/24 J	36 J
Methane (%)	-	-	0.19 U
Methane, field (%)	0.0/0.0	0.0/0.0/0.0/0.0	0/0
Total HI	25 (k)	24 (m)	57 (m)
Total Risk SN	8E-05 (j)	7E-05 (l)	2E-04 (l)
Trichloroethene	2200 (jkn)	2300 (lmn)/1900 (lmn)	5000 (lmn)

Parcel 5171- Bldg 1- IA_C	Mar 2012	Aug 2012
	ug/m3	ug/m3
1,2,4-Trimethylbenzene [1]	210 (b)	1.6
Benzene [1]	63 (ae)	1.4
Ethylbenzene [1]	150 (a)	5.0
m&p-Xylenes [1]	600 (b)	16
Methane (%)	-	0.19 U
Methane, field (%)	0.0/0.0	0/0
Total HI	8 (bd)	0

GP20-09	2009	Max
	%	ug/m3
cis-1,2-Dichloroethene	-	16000 (k)
Methane, field	0/0/0	-
trans-1,2-Dichloroethene	-	310 J (k)
Trichloroethene	-	56000 (jk)

Parcel 5171- Bldg 1- Probe C	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	-	0.19 U	0.20 U
Methane, field (%)	0.0/0.0	0.0/0.0	0/0
Total HI	1	1	2 (m)
Trichloroethene	61 (jk)	92 (m)	190 (mn)

MW-216	Max
	ug/L
cis-1,2-Dichloroethene	650
trans-1,2-Dichloroethene	5.9 J
Vinyl chloride	130

Parcel 5171- Bldg 1- IA_F	Mar 2012	Aug 2012
	ug/m3	ug/m3
1,2,4-Trimethylbenzene [1]	130 (b)	3.5 J/7.3 J
Benzene [1]	43 (ae)	3.1/2.5
Ethylbenzene [1]	120 (a)	41/33
m&p-Xylenes [1]	480 (b)	160/140
Methane (%)	-	0.21 U/0.19 U
Methane, field (%)	0.0/0	0/0/0/0
Total HI	5 (bd)	1

Parcel 5171- Bldg 1- Probe F	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	-	-	0.19 U
Methane, field (%)	0.0/0.0/0.0/0.0	0.0/0	0/0
Trichloroethene	29 (k)/30 (k)	29	16

Parcel 5171- Bldg 1- Probe A	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Chloroform (Trichloromethane)	80 (j)	82 J (l)	120 (l)
Methane (%)	-	-	0.21 U
Methane, field (%)	0.0/0.0	0.0/0.0	0/0
Total HI	83 (k)	59 (m)	109 (m)
Total Risk SN	3E-04 (j)	2E-04 (l)	3E-04 (l)
Trichloroethene	7300 (jkn)	5200 (lmn)	9600 (lmn)

Parcel 5171- Bldg 1- IA_Office	Mar 2012	Aug 2012
	ug/m3	ug/m3
1,2,4-Trimethylbenzene [1]	170 J (b)	4.0
Benzene [1]	84 J (ae)	1.3
Ethylbenzene [1]	97 J (a)	16
Methane (%)	-	0.22 U
Methane, field (%)	0/0.0	0/0
Total HI	7 (bd)	1

Parcel 5171- Bldg 1	Mar 2012	Aug 2012
	%	%
Methane	-	0.22 U
Methane, field	0.0/0	0/0

MW-208	Max
	ug/L
Chloroform (Trichloromethane)	0.23 J
cis-1,2-Dichloroethene	0.76 J
Trichloroethene	1.0

PROFILE VIEW

N.T.S.

Building Characteristics:
Commercial-use building, constructed prior to1968. Building divided into two sections. Total footprint is 13,700 sq. ft. Exterior openings - vents, fans, utility pipe penetrations, windows, 10 large bay doors, personnel doors. Occupied weekdays from 7 AM to 5 PM by 7 adult workers.
Eastern 1/4 of the building is brick, two story, office space, concrete slab-on-grade with wall-to-wall carpet. Average air tightness. Heating provided by forced air natural gas furnace, central A/C. Paint storage room in southeast corner, strong paint odor. Southern 3/4 of the building is one story, concrete block with bare concrete floor. Repair shop for large trucks with shop office on east side (tile floor and 8 ft. drop ceiling). Floor is visibly cracked in areas, floor drain present (leading to sewer) and evidence of spills throughout the shop. Flat metal roof approximately 24 ft. high. Not air tight, no weather seals present, bay doors kept open when occupied. Radiant overhead heat and used oil stove, no A/C. Strong paint odors in west side paint booth area.

figure 2.8

PARCEL 5171 - B&G TRUCKING BUILDING 1
1951 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

SOURCES:
THE PAYNE FIRM, INC., PROJECT 0279.44.05, FIGURE 1, DATED 9/12/05;
TETRA TECH EM INC., PROJECT L0312006-SOUTH DAYTON DUMP, FIGURE 2, SITE LAYOUT, 05/25/2004;
CITY OF MORAINE.
ABRAMS AERIAL SURVEY INC. PROJECT 38443, AASI29610, 04/02/2008

38443-61(017)GN-WA022 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- VAS01 ▲ VAS SAMPLING LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5171 - Bldg 2 - Probe A	Mar 2012 ug/m3	Aug 2012 ug/m3
Chloroform (Trichloromethane)	42 J	-
Methane, field	0.0/0	0
Trichloroethene	540	-

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND
EXCEEDANCES

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

J ESTIMATED

U NOT DETECTED

SN SCIENTIFIC NOTATION

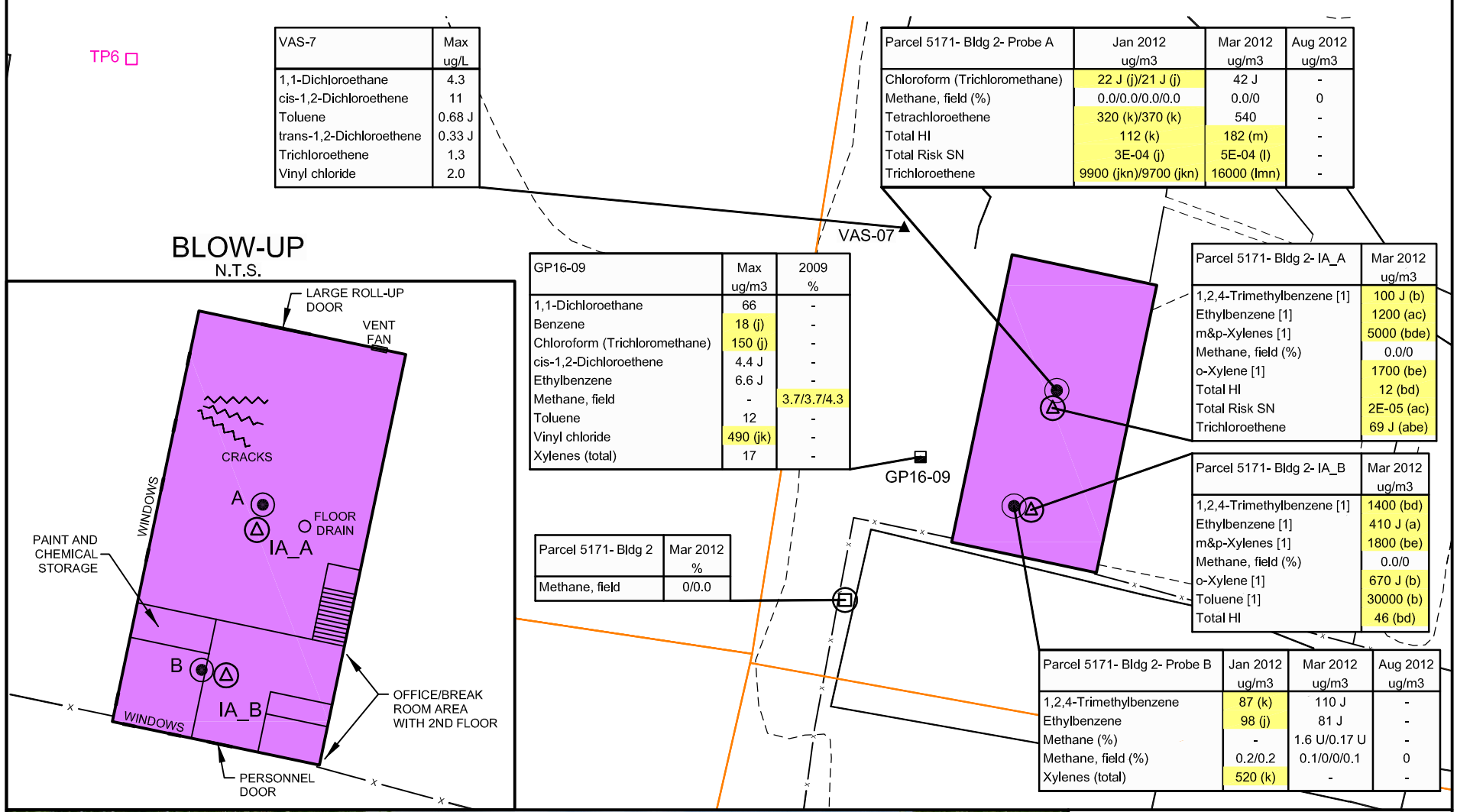
Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
1,1-Dichloroethane	77		770		63	630
1,2,4-Trimethylbenzene		31		310		
Benzene	16	130	160	1300	4	40
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Ethylbenzene	49	4400	490	44000	1300	13000
m&p-Xylenes		440		4400	800	8000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
o-Xylene		440		4400	800	8000
Toluene		22000		220000		
Trichloroethene	30	8.8	300	88	10	100
Vinyl chloride	28	440	280	4400	4	40
Total HI		1		1		
Total Risk SN	1E-5		1E-5			
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



VAS-7	Max ug/L
1,1-Dichloroethane	4.3
cis-1,2-Dichloroethene	11
Toluene	0.68 J
trans-1,2-Dichloroethene	0.33 J
Trichloroethene	1.3
Vinyl chloride	2.0

Parcel 5171- Bldg 2- Probe A	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Chloroform (Trichloromethane)	22 J (j)/21 J (j)	42 J	-
Methane, field (%)	0.0/0.0/0.0/0.0	0.0/0	0
Tetrachloroethene	320 (k)/370 (k)	540	-
Total HI	112 (k)	182 (m)	-
Total Risk SN	3E-04 (j)	5E-04 (l)	-
Trichloroethene	9900 (jkn)/9700 (jkn)	16000 (lmn)	-

GP16-09	Max ug/m3	2009 %
1,1-Dichloroethane	66	-
Benzene	18 (j)	-
Chloroform (Trichloromethane)	150 (j)	-
cis-1,2-Dichloroethene	4.4 J	-
Ethylbenzene	6.6 J	-
Methane, field	-	3.7/3.7/4.3
Toluene	12	-
Vinyl chloride	490 (jk)	-
Xylenes (total)	17	-

Parcel 5171- Bldg 2	Mar 2012 %
Methane, field	0/0.0

Parcel 5171- Bldg 2- IA_A	Mar 2012 ug/m3
1,2,4-Trimethylbenzene [1]	100 J (b)
Ethylbenzene [1]	1200 (ac)
m&p-Xylenes [1]	5000 (bde)
Methane, field (%)	0.0/0
o-Xylene [1]	1700 (be)
Total HI	12 (bd)
Total Risk SN	2E-05 (ac)
Trichloroethene	69 J (abe)

Parcel 5171- Bldg 2- IA_B	Mar 2012 ug/m3
1,2,4-Trimethylbenzene [1]	1400 (bd)
Ethylbenzene [1]	410 J (a)
m&p-Xylenes [1]	1800 (be)
Methane, field (%)	0.0/0
o-Xylene [1]	670 J (b)
Toluene [1]	30000 (b)
Total HI	46 (bd)

Parcel 5171- Bldg 2- Probe B	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
1,2,4-Trimethylbenzene	87 (k)	110 J	-
Ethylbenzene	98 (j)	81 J	-
Methane (%)	-	1.6 U/0.17 U	-
Methane, field (%)	0.2/0.2	0.1/0/0/0.1	0
Xylenes (total)	520 (k)	-	-

PROFILE VIEW
N.T.S.

Building Characteristics:
Commercial-use concrete block building, constructed prior to 1968. Used for large truck repair with office/break room on the south side. Total footprint is 5,000 sq. ft. Slab-on-grade, unsealed poured concrete with some cracks and one large floor drain, with visible staining. One story building, approximately 20 ft. high. Southern 1/3 of building has a 2nd story within the building, storage space only. Approximately 8 ft. ceilings in 1st and 2nd floor of southern 1/3 of building. Ceiling in the shop area (northern 2/3 of building) is 20 ft. high. Heating provided by natural gas. Radiant ceiling heating system and floor fans are present. Not insulated, not air tight, bay door kept open during working hours. Exterior openings - vent fans, utility pipe penetrations, windows, 1 large bay door, personnel doors. Occupied weekdays from 7 AM to 5 PM by 2 adult workers.

figure 2.9

PARCEL 5171 - B&G TRUCKING BUILDING 2
1951 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA023 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- BH01-09 SOIL BORING LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP21-09 SHALLOW LANDFILL GAS PROBE
- CRAWL SPACE AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV NO VALUE

GP09-09	9/15/2009
	ug/m3
Tetrachloroethene	2000 (B)

- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CRITERIA
- CONCENTRATION VALUE
- COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

J ESTIMATED

U NOT DETECTED

EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	5
Benzene	16	130	160	1300	4
cis-1,2-Dichloroethene		260		2600	150
Ethylbenzene	49	4400	490	44000	1300
Methane (%)	0.05	0.05	0.5	0.5	0.05
Methane, field (%)	0.05	0.05	0.5	0.5	0.05
Naphthalene	3.6	13	36	130	15.2
Tetrachloroethene	470	180	4700	1800	170
Toluene		22000		220000	
Trichloroethene			300	88	10
Vinyl chloride	28	440	280	4400	4
Xylenes (total)		440		4400	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:

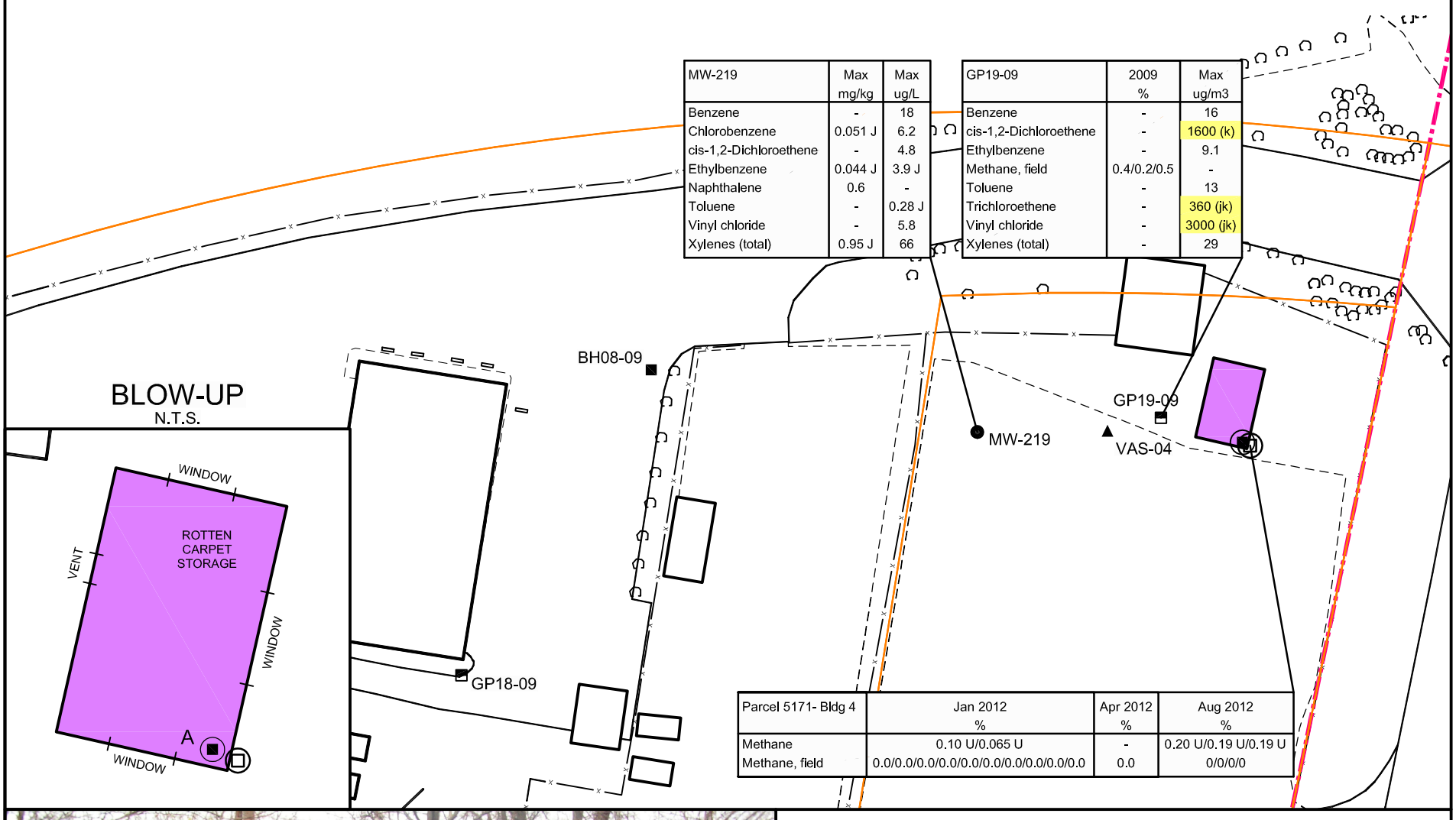
METHANE CONCENTRATION SHOWN IN UNITS OF %.

LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT

THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.

THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.

AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



PROFILE VIEW

N.T.S.

Building Characteristics:
Singe-story storage building, potentially formerly used as an office. Footprint is 336q.ft. Concrete block foundation, with crawl space. Wood frame, siding, and floor, unsealed joints, in rotted condition (musty/moldy odor). Asphalt ground cover. Exterior openings - broken windows, vent, and personnel door. No HVAC systems present. No occupancy, building has been vacant for multiple years.

figure 2.10

PARCEL 5171 - B&G TRUCKING BUILDING 4
1915 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA035 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 ● MONITORING WELL LOCATION
- VAS01 ▲ VAS SAMPLING LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

MW-208	Max ug/L
Chloroform (Trichloromethane)	0.23 J
cis-1,2-Dichloroethene	0.76 J
Trichloroethene	1.0

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT
J ESTIMATED
U NOT DETECTED

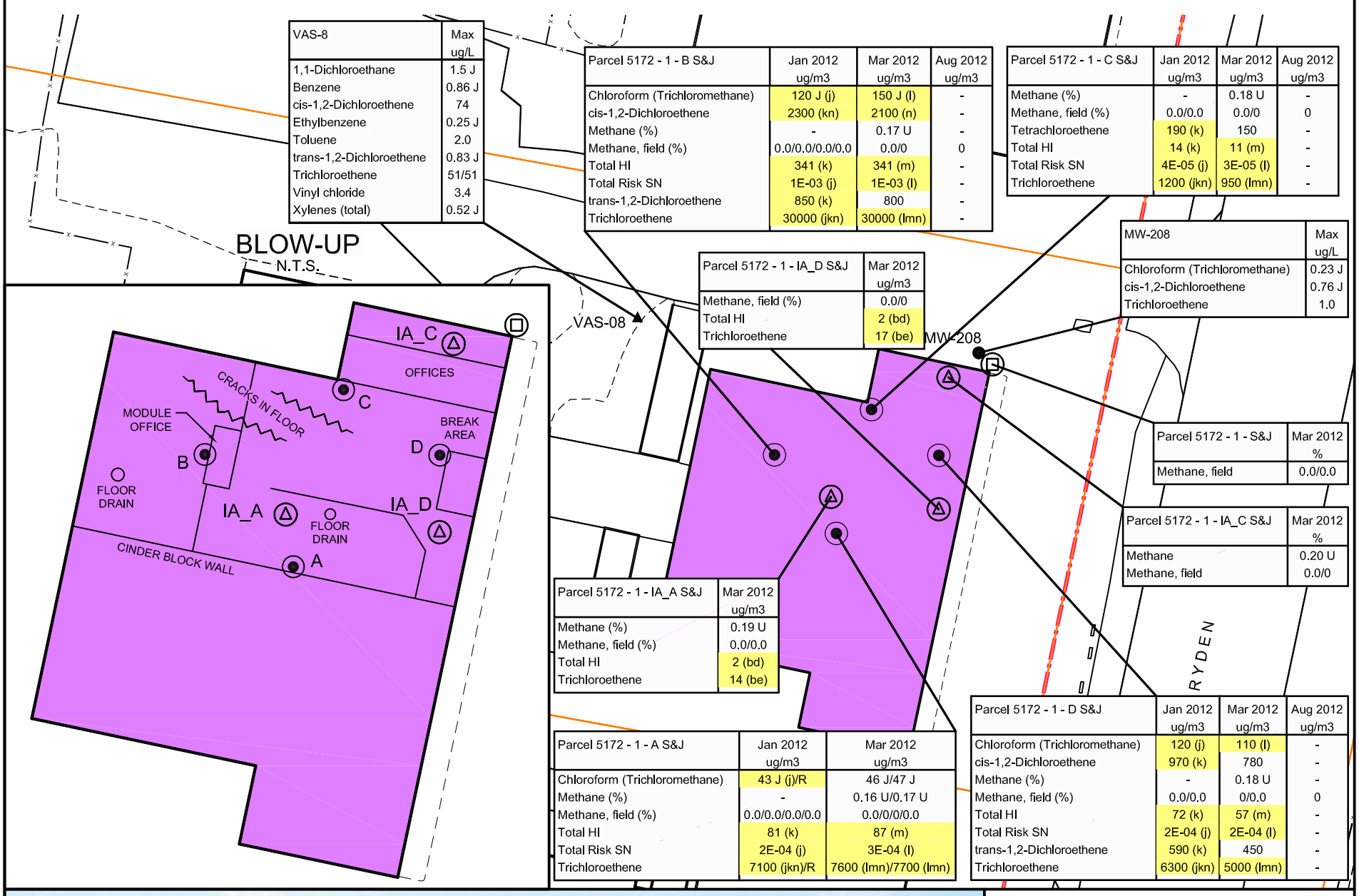
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	5	6
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Tetrachloroethene	470	180	4700	1800	170	1700
trans-1,2-Dichloroethene		260		2600		
Trichloroethene	30	8.8	300	88	10	100
Total HI		1		1		
Total Risk SN	1E-5		1E-5			

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



VAS-8	Max ug/L
1,1-Dichloroethane	1.5 J
Benzene	0.86 J
cis-1,2-Dichloroethene	74
Ethylbenzene	0.25 J
Toluene	2.0
trans-1,2-Dichloroethene	0.83 J
Trichloroethene	51/51
Vinyl chloride	3.4
Xylenes (total)	0.52 J

Parcel 5172 - 1 - B S&J	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Chloroform (Trichloromethane)	120 J (j)	150 J (l)	-
cis-1,2-Dichloroethene	2300 (kn)	2100 (n)	-
Methane (%)	-	0.17 U	-
Methane, field (%)	0.0/0.0/0.0/0.0	0.0/0	0
Total HI	341 (k)	341 (m)	-
Total Risk SN	1E-03 (j)	1E-03 (l)	-
trans-1,2-Dichloroethene	850 (k)	800	-
Trichloroethene	30000 (jkn)	30000 (lmn)	-

Parcel 5172 - 1 - C S&J	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Methane (%)	-	0.18 U	-
Methane, field (%)	0.0/0.0	0.0/0	0
Tetrachloroethene	190 (k)	150	-
Total HI	14 (k)	11 (m)	-
Total Risk SN	4E-05 (j)	3E-05 (l)	-
Trichloroethene	1200 (jkn)	950 (lmn)	-

Parcel 5172 - 1 - IA_D S&J	Mar 2012 ug/m3
Methane, field (%)	0.0/0
Total HI	2 (bd)
Trichloroethene	17 (be)

MW-208	Max ug/L
Chloroform (Trichloromethane)	0.23 J
cis-1,2-Dichloroethene	0.76 J
Trichloroethene	1.0

Parcel 5172 - 1 - S&J	Mar 2012 %
Methane, field	0.0/0.0

Parcel 5172 - 1 - IA_C S&J	Mar 2012 %
Methane	0.20 U
Methane, field	0.0/0

Parcel 5172 - 1 - IA_A S&J	Mar 2012 ug/m3
Methane (%)	0.19 U
Methane, field (%)	0.0/0.0
Total HI	2 (bd)
Trichloroethene	14 (be)

Parcel 5172 - 1 - A S&J	Jan 2012 ug/m3	Mar 2012 ug/m3
Chloroform (Trichloromethane)	43 J (j)/R	46 J/47 J
Methane (%)	-	0.16 U/0.17 U
Methane, field (%)	0.0/0.0/0.0/0.0	0.0/0/0/0.0
Total HI	81 (k)	87 (m)
Total Risk SN	2E-04 (j)	3E-04 (l)
Trichloroethene	7100 (jkn)/R	7600 (lmn)/7700 (lmn)

Parcel 5172 - 1 - D S&J	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Chloroform (Trichloromethane)	120 (j)	110 (l)	-
cis-1,2-Dichloroethene	970 (k)	780	-
Methane (%)	-	0.18 U	-
Methane, field (%)	0.0/0.0	0/0.0	0
Total HI	72 (k)	57 (m)	-
Total Risk SN	2E-04 (j)	2E-04 (l)	-
trans-1,2-Dichloroethene	590 (k)	450	-
Trichloroethene	6300 (jkn)	5000 (lmn)	-

PROFILE VIEW
N.T.S.

Building Characteristics:
Single story, industrial-use building, constructed in the 1950s. Divided into two equal sections, north and south sides. Total footprint is 11,600 sq. ft. Approximately 16 ft. high. Slab-on-grade, concrete block building with brick front. Exterior openings - windows, utility pipe penetrations, bay doors, personnel doors.
North side is the S&J Precision building. Majority of space is a metal working shop and warehouse with some office space. Bare concrete floor in shop and warehouse with cracks and 2 floor drains, staining on warehouse floor and near drain. North office space has elevated floor with floor tile (possibly asbestos) and wall-to-wall carpet on top. Heating provided by forced air natural gas furnace, central A/C. Not insulated, average air tightness, weather seals in fair condition. Occupied weekdays from 6 AM to 5 PM by 5 adult workers.
South side is the Overstreet Painting building. See figure 28.

figure 2.11

PARCEL 5172 - S&J PRECISION BUILDING 1
2015 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA025 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 ● MONITORING WELL LOCATION
- VAS01 ▲ VAS SAMPLING LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5172 - 1 - A Overstreet	Jan 2012 ug/m3	Jan 2012 %
Chloroform (Trichloromethane)	250	-
cis-1,2-Dichloroethene	2300	-
Methane, field	-	0.0

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

J ESTIMATED

EXCEEDANCES

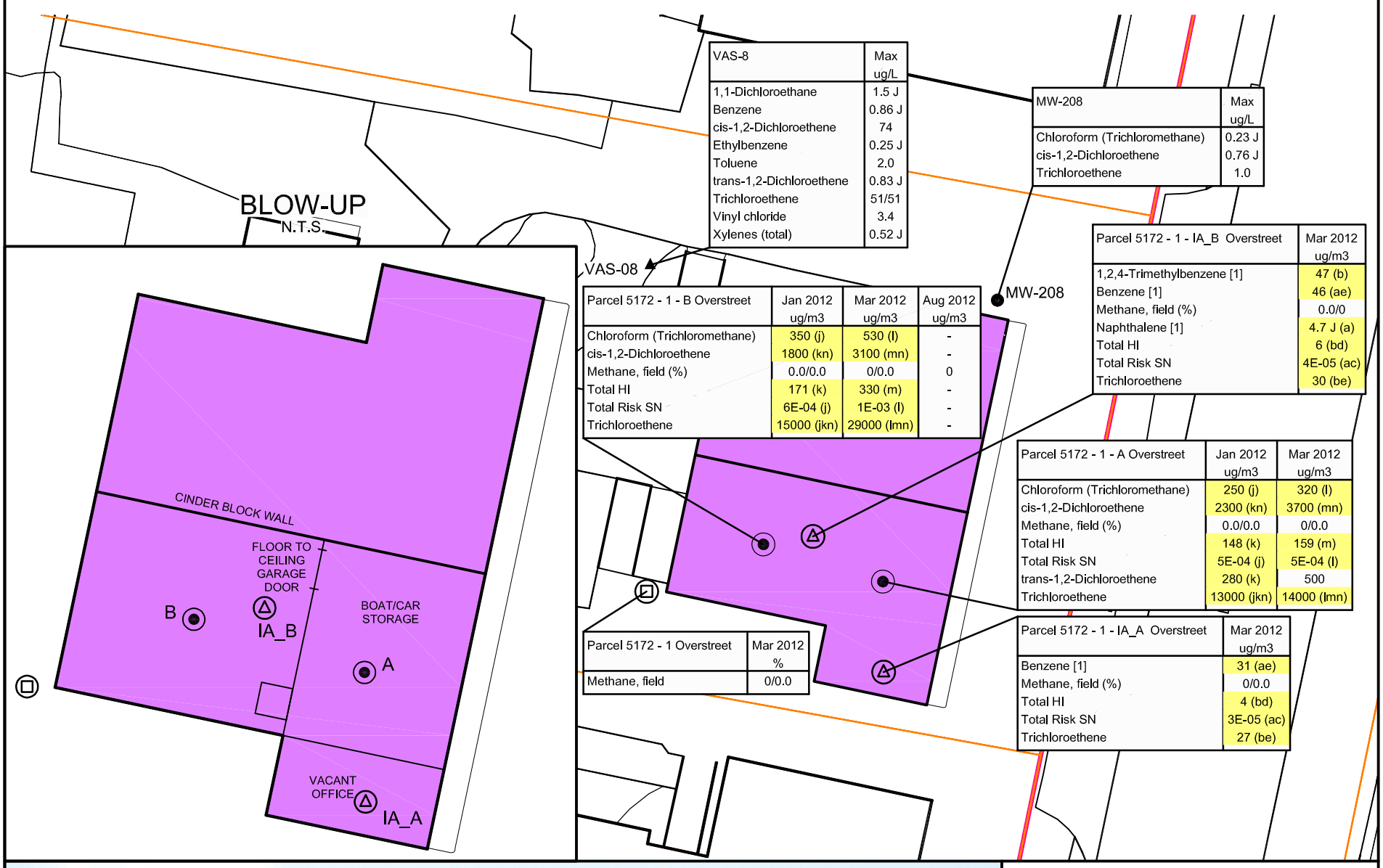
Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
1,2,4-Trimethylbenzene		31		310		
Benzene	16	130	160	1300	4	40
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Naphthalene	3.6	13	36	130	15.2	152
Tetrachloroethene	470	180	4700	1800	170	1700
trans-1,2-Dichloroethene		260		2600		
Trichloroethene	30	8.8	300	88	10	100
Total HI		1		1		
Total Risk SN	1E-5		1E-5			

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



VAS-8	Max ug/L
1,1-Dichloroethane	1.5 J
Benzene	0.86 J
cis-1,2-Dichloroethene	74
Ethylbenzene	0.25 J
Toluene	2.0
trans-1,2-Dichloroethene	0.83 J
Trichloroethene	51/51
Vinyl chloride	3.4
Xylenes (total)	0.52 J

MW-208	Max ug/L
Chloroform (Trichloromethane)	0.23 J
cis-1,2-Dichloroethene	0.76 J
Trichloroethene	1.0

Parcel 5172 - 1 - B Overstreet	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Chloroform (Trichloromethane)	350 (j)	530 (l)	-
cis-1,2-Dichloroethene	1800 (kn)	3100 (mn)	-
Methane, field (%)	0.0/0.0	0/0.0	0
Total HI	171 (k)	330 (m)	-
Total Risk SN	6E-04 (j)	1E-03 (l)	-
Trichloroethene	15000 (jkn)	29000 (lmn)	-

Parcel 5172 - 1 - IA_B Overstreet	Mar 2012 ug/m3
1,2,4-Trimethylbenzene [1]	47 (b)
Benzene [1]	46 (ae)
Methane, field (%)	0.0/0
Naphthalene [1]	4.7 J (a)
Total HI	6 (bd)
Total Risk SN	4E-05 (ac)
Trichloroethene	30 (be)

Parcel 5172 - 1 - A Overstreet	Jan 2012 ug/m3	Mar 2012 ug/m3
Chloroform (Trichloromethane)	250 (j)	320 (l)
cis-1,2-Dichloroethene	2300 (kn)	3700 (mn)
Methane, field (%)	0.0/0.0	0/0.0
Total HI	148 (k)	159 (m)
Total Risk SN	5E-04 (j)	5E-04 (l)
trans-1,2-Dichloroethene	280 (k)	500
Trichloroethene	13000 (jkn)	14000 (lmn)

Parcel 5172 - 1 Overstreet	Mar 2012 %
Methane, field	0/0.0

Parcel 5172 - 1 - IA_A Overstreet	Mar 2012 ug/m3
Benzene [1]	31 (ae)
Methane, field (%)	0/0.0
Total HI	4 (bd)
Total Risk SN	3E-05 (ac)
Trichloroethene	27 (be)

PROFILE VIEW

N.T.S.

Building Characteristics:
Single story, industrial-use building, constructed in the 1950s. Divided into two equal sections, north and south sides. Total footprint is 11,600 sq. ft. Approximately 16 ft high. Slab-on grade, concrete block building with brick front. Exterior openings - windows, utility pipe penetrations, bay doors, personnel doors. Not insulated, average air tightness, weather seals in fair condition.
North side is the S&J Precision building.
See figure 27.
South side is the Overstreet Painting building. Commercial-use storage building. Primarily paint and vehicle storage with vehicle detailing space. Bare concrete floor with cracks. Heating provided by forced air natural gas furnace ceiling unit. No A/C. No regular occupancy - storage only.

figure 2.12

PARCEL 5172 - OVERSTREET PAINTING BUILDING 1
2019 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA033 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 ● MONITORING WELL LOCATION
- VAS01 ▲ VAS SAMPLING LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5172 - 3 - A Overstreet	Jan 2012	Jan 2012
	ug/m3	%
Methane, field	-	0.0
Trichloroethene	1300	-

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND
EXCEEDANCES

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

J ESTIMATED

U NOT DETECTED

SN SCIENTIFIC NOTATION

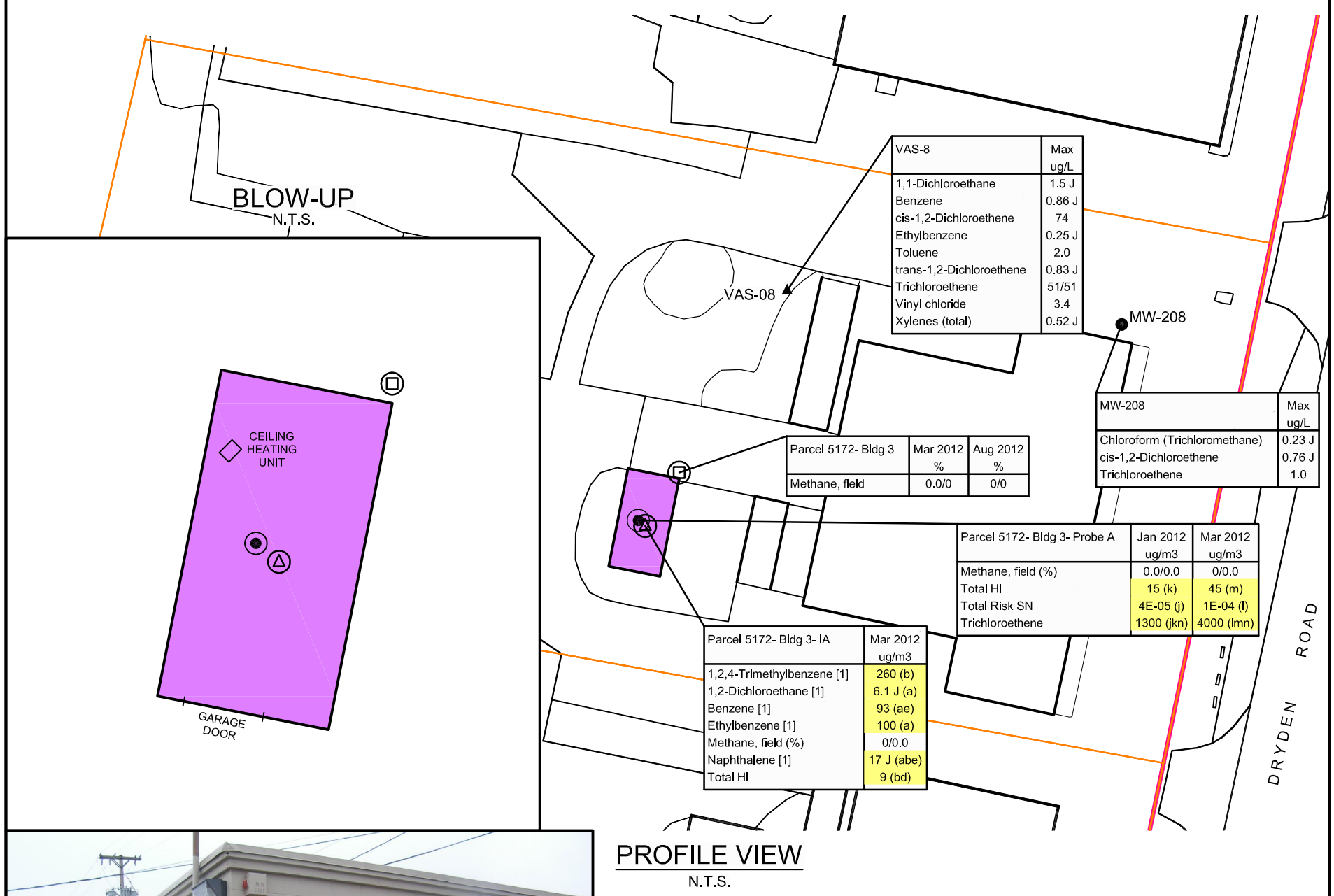
Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
1,2,4-Trimethylbenzene		31		310		
1,2-Dichloroethane	4.7	31	47	310		
Benzene	16	130	160	1300	4	40
Ethylbenzene	49	4400	490	44000	1300	13000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Naphthalene	3.6	13	36	130	15.2	152
Trichloroethene	30	8.8	300	88	10	100
Total HI		1		1		
Total Risk SN	1E-5		1E-5			

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



VAS-8	Max ug/L
1,1-Dichloroethane	1.5 J
Benzene	0.86 J
cis-1,2-Dichloroethene	74
Ethylbenzene	0.25 J
Toluene	2.0
trans-1,2-Dichloroethene	0.83 J
Trichloroethene	51/51
Vinyl chloride	3.4
Xylenes (total)	0.52 J

MW-208	Max ug/L
Chloroform (Trichloromethane)	0.23 J
cis-1,2-Dichloroethene	0.76 J
Trichloroethene	1.0

Parcel 5172- Bldg 3	Mar 2012	Aug 2012
	%	%
Methane, field	0.0/0	0/0

Parcel 5172- Bldg 3- Probe A	Jan 2012	Mar 2012
	ug/m3	ug/m3
Methane, field (%)	0.0/0.0	0/0.0
Total HI	15 (k)	45 (m)
Total Risk SN	4E-05 (j)	1E-04 (l)
Trichloroethene	1300 (jkn)	4000 (lmn)

Parcel 5172- Bldg 3- IA	Mar 2012
	ug/m3
1,2,4-Trimethylbenzene [1]	260 (b)
1,2-Dichloroethane [1]	6.1 J (a)
Benzene [1]	93 (ae)
Ethylbenzene [1]	100 (a)
Methane, field (%)	0/0.0
Naphthalene [1]	17 J (abe)
Total HI	9 (bd)

Building Characteristics:
Single-story storage building. Footprint is 900 sq. ft. Primarily storage of painting supplies and scaffolding. Concrete block building with concrete floor. Floor is in good condition with no cracks and no drains. Not insulated with average air tightness, weather seals in fair condition. Heating provided by forced air natural gas furnace ceiling units, no A/C. Exterior openings - garage door, and personnel door. No regular occupancy - storage only. Rubber and dust odors in building.

figure 2.13

PARCEL 5172 - OVERSTREET PAINTING BUILDING 3
2019 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA034 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5172 - Bldg 2 - Probe C	Jan 2012 ug/m3	Jan 2012 %
Methane	-	0.066 U
Methane, field	-	0.0
Trichloroethene	13	-

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT
J ESTIMATED
U NOT DETECTED
SN SCIENTIFIC NOTATION

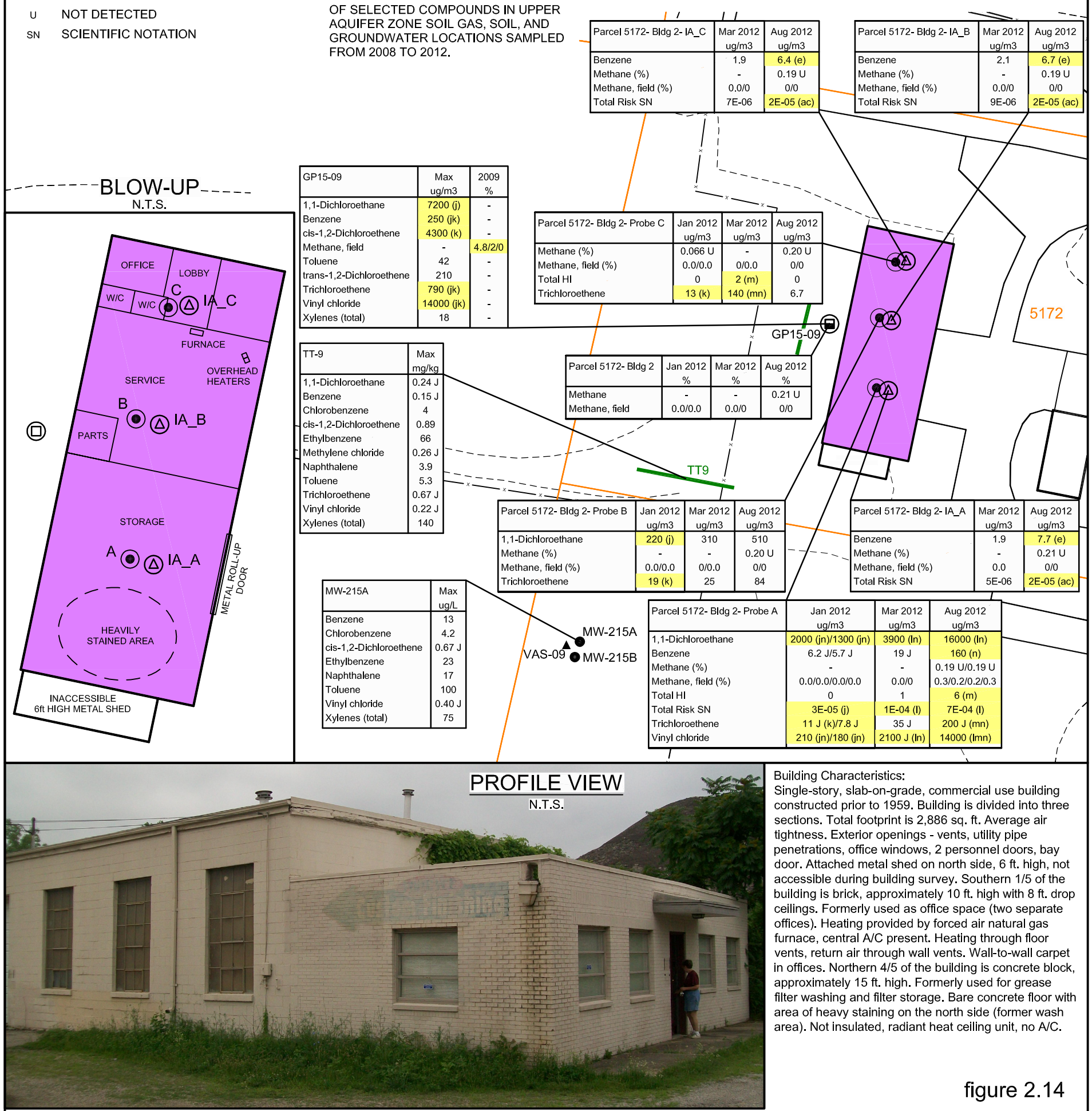
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	5	6
1,1-Dichloroethane	77		770		63	630
Benzene	16	130	160	1300	4	40
cis-1,2-Dichloroethene		260		2600	150	1500
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Toluene		22000		220000		
trans-1,2-Dichloroethene		260		2600		
Trichloroethene	30	8.8	300	88	10	100
Vinyl chloride	28	440	280	4400	4	40
Total HI		1		1		
Total Risk SN	1E-5		1E-5			
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



Parcel 5172- Bldg 2- IA_C	Mar 2012 ug/m3	Aug 2012 ug/m3
Benzene	1.9	6.4 (e)
Methane (%)	-	0.19 U
Methane, field (%)	0.0/0	0/0
Total Risk SN	7E-06	2E-05 (ac)

Parcel 5172- Bldg 2- IA_B	Mar 2012 ug/m3	Aug 2012 ug/m3
Benzene	2.1	6.7 (e)
Methane (%)	-	0.19 U
Methane, field (%)	0.0/0	0/0
Total Risk SN	9E-06	2E-05 (ac)

GP15-09	Max ug/m3	2009 %
1,1-Dichloroethane	7200 (j)	-
Benzene	250 (jk)	-
cis-1,2-Dichloroethene	4300 (k)	-
Methane, field	-	4.8/2/0
Toluene	42	-
trans-1,2-Dichloroethene	210	-
Trichloroethene	790 (jk)	-
Vinyl chloride	14000 (jk)	-
Xylenes (total)	18	-

Parcel 5172- Bldg 2- Probe C	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Methane (%)	0.066 U	-	0.20 U
Methane, field (%)	0.0/0.0	0/0.0	0/0
Total HI	0	2 (m)	0
Trichloroethene	13 (k)	140 (mn)	6.7

TT-9	Max mg/kg
1,1-Dichloroethane	0.24 J
Benzene	0.15 J
Chlorobenzene	4
cis-1,2-Dichloroethene	0.89
Ethylbenzene	66
Methylene chloride	0.26 J
Naphthalene	3.9
Toluene	5.3
Trichloroethene	0.67 J
Vinyl chloride	0.22 J
Xylenes (total)	140

Parcel 5172- Bldg 2	Jan 2012 %	Mar 2012 %	Aug 2012 %
Methane	-	-	0.21 U
Methane, field	0.0/0.0	0.0/0	0/0

Parcel 5172- Bldg 2- Probe B	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
1,1-Dichloroethane	220 (j)	310	510
Methane (%)	-	-	0.20 U
Methane, field (%)	0.0/0.0	0/0.0	0/0
Trichloroethene	19 (k)	25	84

Parcel 5172- Bldg 2- IA_A	Mar 2012 ug/m3	Aug 2012 ug/m3
Benzene	1.9	7.7 (e)
Methane (%)	-	0.21 U
Methane, field (%)	0.0	0/0
Total Risk SN	5E-06	2E-05 (ac)

MW-215A	Max ug/L
Benzene	13
Chlorobenzene	4.2
cis-1,2-Dichloroethene	0.67 J
Ethylbenzene	23
Naphthalene	17
Toluene	100
Vinyl chloride	0.40 J
Xylenes (total)	75

Parcel 5172- Bldg 2- Probe A	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
1,1-Dichloroethane	2000 (jn)/1300 (jn)	3900 (ln)	16000 (ln)
Benzene	6.2 J/5.7 J	19 J	160 (n)
Methane (%)	-	-	0.19 U/0.19 U
Methane, field (%)	0.0/0.0/0.0/0.0	0.0/0	0.3/0.2/0.2/0.3
Total HI	0	1	6 (m)
Total Risk SN	3E-05 (j)	1E-04 (l)	7E-04 (l)
Trichloroethene	11 J (k)/7.8 J	35 J	200 J (mn)
Vinyl chloride	210 (jn)/180 (jn)	2100 J (ln)	14000 (lmn)

Building Characteristics:
Single-story, slab-on-grade, commercial use building constructed prior to 1959. Building is divided into three sections. Total footprint is 2,886 sq. ft. Average air tightness. Exterior openings - vents, utility pipe penetrations, office windows, 2 personnel doors, bay door. Attached metal shed on north side, 6 ft. high, not accessible during building survey. Southern 1/5 of the building is brick, approximately 10 ft. high with 8 ft. drop ceilings. Formerly used as office space (two separate offices). Heating provided by forced air natural gas furnace, central A/C present. Heating through floor vents, return air through wall vents. Wall-to-wall carpet in offices. Northern 4/5 of the building is concrete block, approximately 15 ft. high. Formerly used for grease filter washing and filter storage. Bare concrete floor with area of heavy staining on the north side (former wash area). Not insulated, radiant heat ceiling unit, no A/C.

figure 2.14

PARCEL 5172 - BULLSEYE AMUSEMENTS BUILDING 2
2003 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA026 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5173- Bldg 1- Probe A	Jan 2012	Jan 2012
Methane, field	-	0.0
Tetrachloroethene	51	-
Trichloroethene	2100	-

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
CONCENTRATION VALUE
COMPOUND
EXCEEDANCES

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

R REJECTED

J ESTIMATED

U NOT DETECTED

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

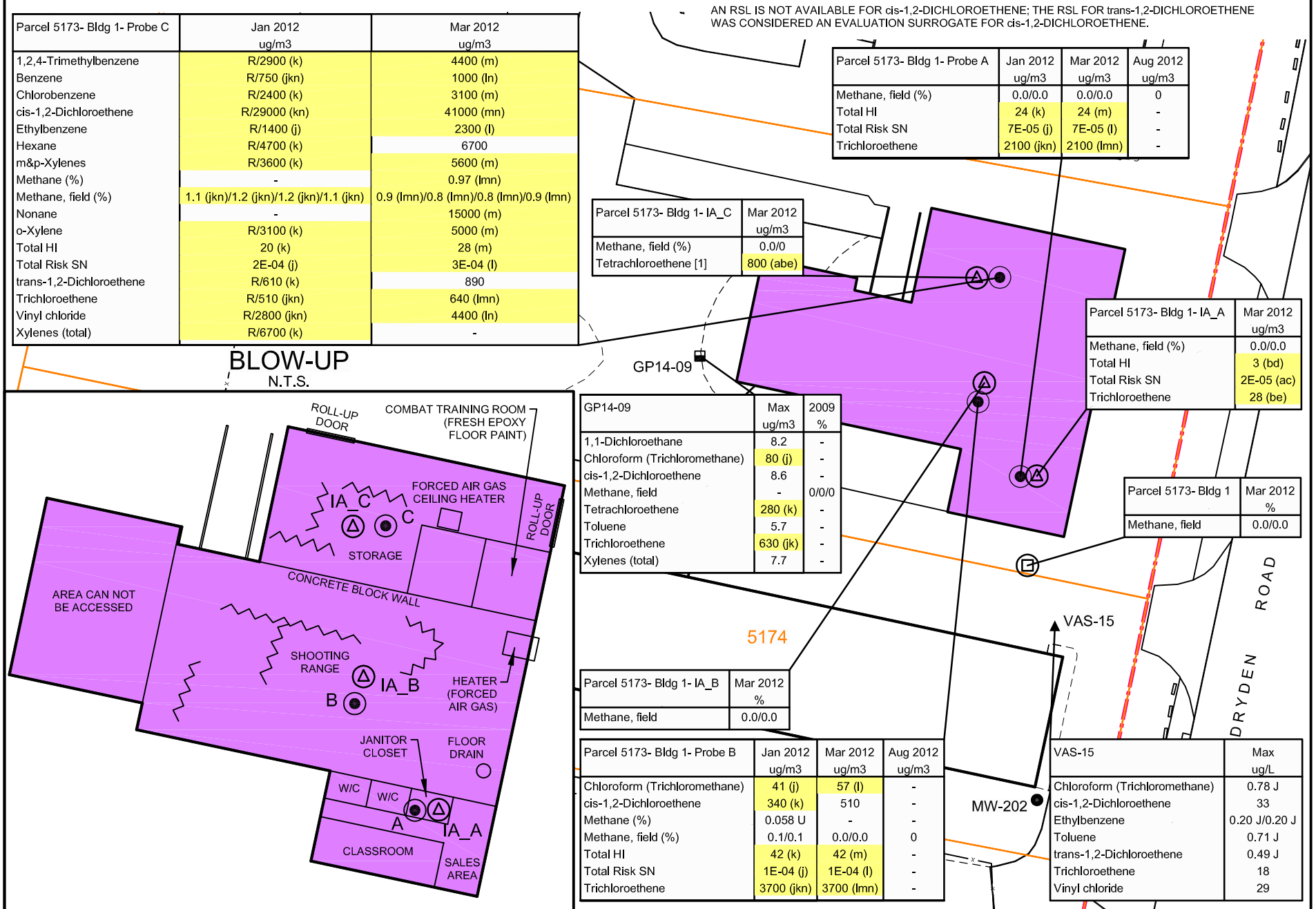
1.8/1.8 RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
1,1-Dichloroethane	77		770		63	630
1,2,4-Trimethylbenzene		31		310		
Benzene	16	130	160	1300	4	40
Chlorobenzene		220		2200		
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Ethylbenzene	49	4400	490	44000	1300	13000
Hexane		3100		31000		
m&p-Xylenes		440		4400	800	8000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Nonane		880		8800		
o-Xylene		440		4400	800	8000
Tetrachloroethene	470	180	4700	1800	170	1700
Toluene		22000		220000		
trans-1,2-Dichloroethene		260		2600		
Trichloroethene	30	8.8	300	88	10	100
Vinyl chloride	28	440	280	4400	4	40
Total HI		1		1		
Total Risk SN	1E-5		1E-5			
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.

Parcel 5173- Bldg 1- Probe C	Jan 2012 ug/m3	Mar 2012 ug/m3
1,2,4-Trimethylbenzene	R/2900 (k)	4400 (m)
Benzene	R/750 (jkn)	1000 (ln)
Chlorobenzene	R/2400 (k)	3100 (m)
cis-1,2-Dichloroethene	R/29000 (kn)	41000 (mn)
Ethylbenzene	R/1400 (j)	2300 (l)
Hexane	R/4700 (k)	6700
m&p-Xylenes	R/3600 (k)	5600 (m)
Methane (%)	-	0.97 (lmn)
Methane, field (%)	1.1 (jkn)/1.2 (jkn)/1.2 (jkn)/1.1 (jkn)	0.9 (lmn)/0.8 (lmn)/0.8 (lmn)/0.9 (lmn)
Nonane	-	15000 (m)
o-Xylene	R/3100 (k)	5000 (m)
Total HI	20 (k)	28 (m)
Total Risk SN	2E-04 (j)	3E-04 (l)
trans-1,2-Dichloroethene	R/610 (k)	890
Trichloroethene	R/510 (jkn)	640 (lmn)
Vinyl chloride	R/2800 (jkn)	4400 (ln)
Xylenes (total)	R/6700 (k)	-



Parcel 5173- Bldg 1- Probe A	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Methane, field (%)	0.0/0.0	0.0/0.0	0
Total HI	24 (k)	24 (m)	-
Total Risk SN	7E-05 (j)	7E-05 (l)	-
Trichloroethene	2100 (jkn)	2100 (lmn)	-

Parcel 5173- Bldg 1- IA_C	Mar 2012 ug/m3
Methane, field (%)	0.0/0
Tetrachloroethene [1]	800 (abe)

Parcel 5173- Bldg 1- IA_A	Mar 2012 ug/m3
Methane, field (%)	0.0/0.0
Total HI	3 (bd)
Total Risk SN	2E-05 (ac)
Trichloroethene	28 (be)

GP14-09	Max ug/m3	2009 %
1,1-Dichloroethane	8.2	-
Chloroform (Trichloromethane)	80 (j)	-
cis-1,2-Dichloroethene	8.6	-
Methane, field	-	0/0/0
Tetrachloroethene	280 (k)	-
Toluene	5.7	-
Trichloroethene	630 (jk)	-
Xylenes (total)	7.7	-

Parcel 5173- Bldg 1	Mar 2012 %
Methane, field	0.0/0.0

Parcel 5173- Bldg 1- IA_B	Mar 2012 %
Methane, field	0.0/0.0

Parcel 5173- Bldg 1- Probe B	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Chloroform (Trichloromethane)	41 (j)	57 (l)	-
cis-1,2-Dichloroethene	340 (k)	510	-
Methane (%)	0.058 U	-	-
Methane, field (%)	0.1/0.1	0.0/0.0	0
Total HI	42 (k)	42 (m)	-
Total Risk SN	1E-04 (j)	1E-04 (l)	-
Trichloroethene	3700 (jkn)	3700 (lmn)	-

VAS-15	Max ug/L
Chloroform (Trichloromethane)	0.78 J
cis-1,2-Dichloroethene	33
Ethylbenzene	0.20 J/0.20 J
Toluene	0.71 J
trans-1,2-Dichloroethene	0.49 J
Trichloroethene	18
Vinyl chloride	29

Building Characteristics:
Single-story commercial-use building constructed in three stages (north and center portions prior to 1956, western addition prior to 1959, southern addition prior to 1968). Total footprint is 8,250 sq. ft. Concrete block building with brick front. Slab-on-grade, bare concrete or painted concrete, fresh epoxy coat in north side combat training room, large cracks in the shooting range. Heavy staining and oil odor in storage area. Range heated by forced air natural gas ceiling units. Air handling unit pulls air from the range out the roof, operated during business hours. Forced air natural gas heat and central A/C in south section. Exterior openings - vents, fans, windows, 2 bay doors and two personnel doors. Occupied during business hours by one adult worker (4-hour shifts) and customers.

figure 2.15

PARCEL 5173 - SIM TRAINER BUILDING 1
2031 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA027 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5174- Bldg 1- IA_A	Mar 2012	Aug 2012
	%	%
Methane	0.20 U	0.21 U
Methane, field	0/0.0	0/0

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND
EXCEEDANCES

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

J ESTIMATED

U NOT DETECTED

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
1,1-Dichloroethane	77		770		63	630
1,2-Dichloroethane	4.7	31	47	310		
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Tetrachloroethene	470	180	4700	1800	170	1700
Toluene		22000		220000		
Trichloroethene	30	8.8	300	88	10	100
Vinyl chloride	28	440	280	4400	4	40
Total HI		1		1		
Total Risk SN	1E-5		1E-5			
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.

Parcel 5174- Bldg 1- Probe B	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	R	0.19 U	0.20 U/0.20 U
Methane, field (%)	0.0/0.0	0.0/0	0/0/0/0
Total HI	-	2 (m)	18 (m)
Total Risk SN	-	6E-06	5E-05 (l)
Trichloroethene	R	160 (mn)	1600 (lmn)/1600 (lmn)

Parcel 5174- Bldg 1- Probe A	Jan 2012	Mar 2012	Aug 2012
	%	%	%
Methane	-	0.19 U	0.21 U
Methane, field	0.0/0.0	0/0.0	0/0

GP13-09	Max	2009
	ug/m3	%
1,1-Dichloroethane	2900 (j)	-
Methane, field	-	3.7/3.3/3.4
Toluene	13 J	-
Vinyl chloride	6800 (jk)	-

Parcel 5174- Bldg 1- IA_A	Mar 2012	Aug 2012
	%	%
Methane	0.20 U	0.21 U
Methane, field	0/0.0	0/0

Parcel 5174- Bldg 1- IA_C	Mar 2012	Aug 2012
	ug/m3	ug/m3
1,2-Dichloroethane [1]	0.25 J/0.35 J	8.1 (a)
Methane (%)	0.17 U/0.18 U	0.21 U
Methane, field (%)	0.0/0/0.0/0	0/0

Parcel 5174- Outdoor Air	Jan 2012	Mar 2012	Aug 2012	Sep 2012
	%	%	%	%
Methane	-	-	0.21 U	0.21 U
Methane, field	0.0/0.0	0.0/0	0/0	0/0

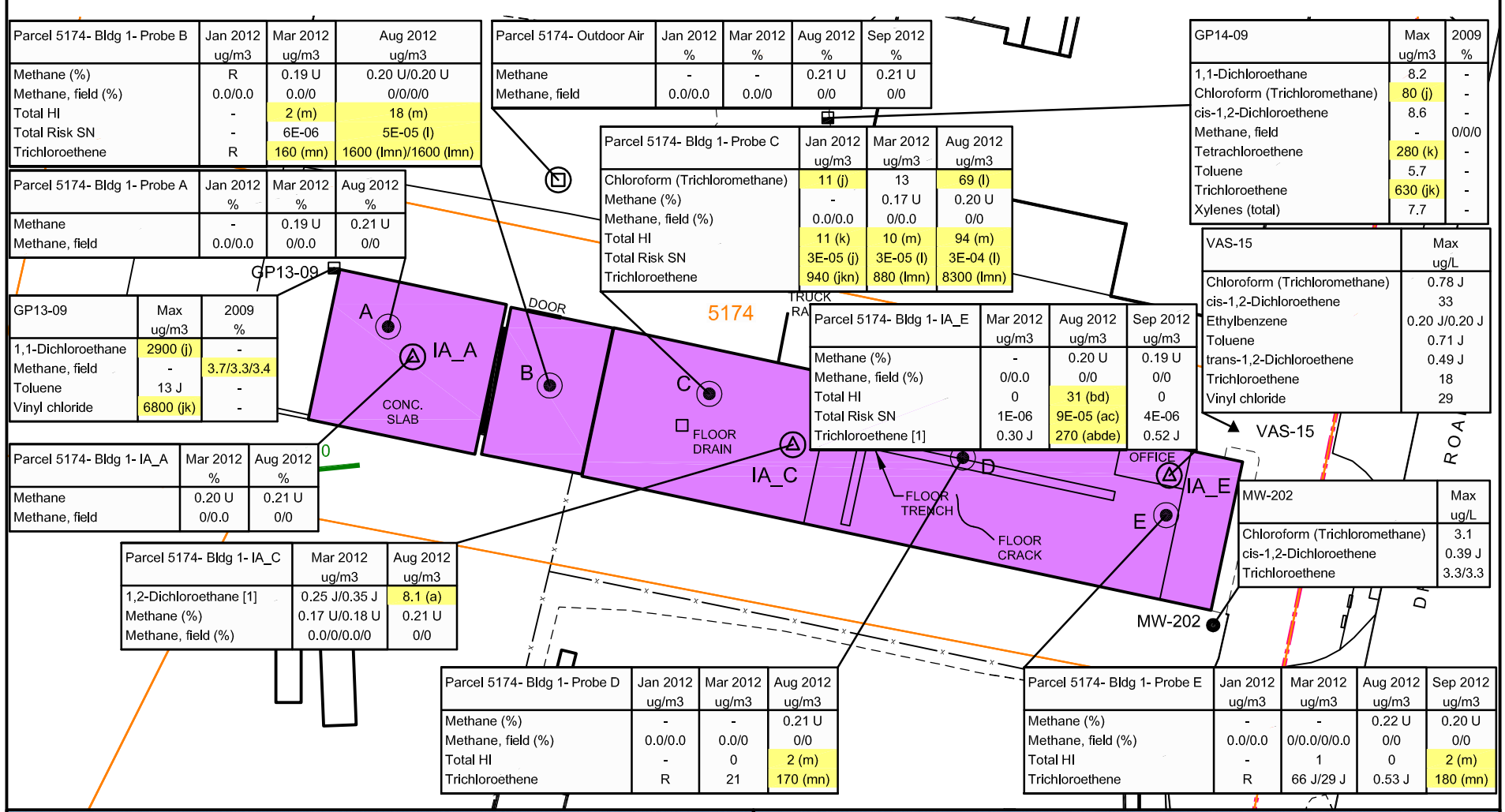
Parcel 5174- Bldg 1- Probe C	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Chloroform (Trichloromethane)	11 (j)	13	69 (l)
Methane (%)	-	0.17 U	0.20 U
Methane, field (%)	0.0/0.0	0/0.0	0/0
Total HI	11 (k)	10 (m)	94 (m)
Total Risk SN	3E-05 (j)	3E-05 (l)	3E-04 (l)
Trichloroethene	940 (jkn)	880 (lmn)	8300 (lmn)

Parcel 5174- Bldg 1- IA_E	Mar 2012	Aug 2012	Sep 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	-	0.20 U	0.19 U
Methane, field (%)	0/0.0	0/0	0/0
Total HI	0	31 (bd)	0
Total Risk SN	1E-06	9E-05 (ac)	4E-06
Trichloroethene [1]	0.30 J	270 (abde)	0.52 J

GP14-09	Max	2009
	ug/m3	%
1,1-Dichloroethane	8.2	-
Chloroform (Trichloromethane)	80 (j)	-
cis-1,2-Dichloroethene	8.6	-
Methane, field	-	0/0/0
Tetrachloroethene	280 (k)	-
Toluene	5.7	-
Trichloroethene	630 (jk)	-
Xylenes (total)	7.7	-

VAS-15	Max
	ug/L
Chloroform (Trichloromethane)	0.78 J
cis-1,2-Dichloroethene	33
Ethylbenzene	0.20 J/0.20 J
Toluene	0.71 J
trans-1,2-Dichloroethene	0.49 J
Trichloroethene	18
Vinyl chloride	29

MW-202	Max
	ug/L
Chloroform (Trichloromethane)	3.1
cis-1,2-Dichloroethene	0.39 J
Trichloroethene	3.3/3.3



Parcel 5174- Bldg 1- Probe D	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	-	-	0.21 U
Methane, field (%)	0.0/0.0	0.0/0	0/0
Total HI	-	0	2 (m)
Trichloroethene	R	21	170 (mn)

Parcel 5174- Bldg 1- Probe E	Jan 2012	Mar 2012	Aug 2012	Sep 2012
	ug/m3	ug/m3	ug/m3	ug/m3
Methane (%)	-	-	0.22 U	0.20 U
Methane, field (%)	0.0/0.0	0/0.0/0/0.0	0/0	0/0
Total HI	-	1	0	2 (m)
Trichloroethene	R	66 J/29 J	0.53 J	180 (mn)

PROFILE VIEW

N.T.S.

Building Characteristics:
Single-story, commercial-use storage building, constructed prior to 1968. 12,500 sq. ft concrete slab-on-grade building. Areas A (approximately 12 ft high) and B (approximately 16 ft high) constructed with brick, with weather seals in poor condition. Spray-on insulation (possible asbestos) used in Area B. Areas C (approximately 24 ft high) to E constructed with steel beams and metal siding. No HVAC systems in use as of June 2011. Not air tight. Damp and moldy, with visible evidence of water staining in office area A. Floor slab in poor condition, with cracks and unsealed joints throughout the building, particularly cracked in Areas D and E. Heavy floor staining in areas B through E. Exterior openings - office windows, personnel doors, sliding and roll-up doors. Infrequent and variable occupancy by 2 adults.

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

figure 2.16

PARCEL 5174 - COMMAND ROOFING BUILDING 1
2045 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA028 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 5175- Bldg 1- Probe A	Jan 2012 ug/m3	Jan 2012 %
Methane, field	-	0.0
Trichloroethene	140	-

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT
J ESTIMATED
U NOT DETECTED
SN SCIENTIFIC NOTATION

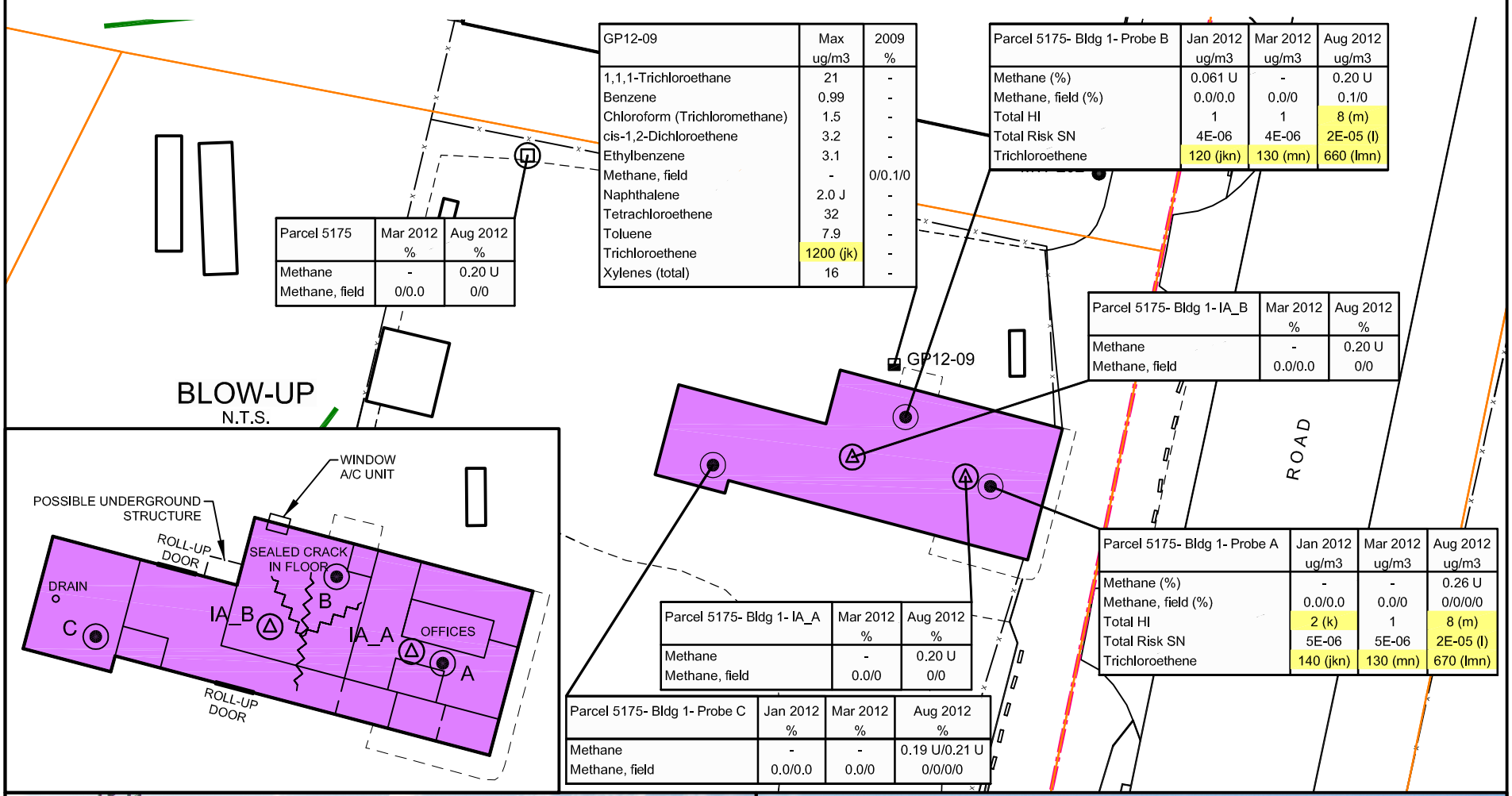
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	6
Benzene	16	130	160	1300	40
Chloroform (Trichloromethane)	5.3	430	53	4300	4000
cis-1,2-Dichloroethene		260		2600	1500
Ethylbenzene	49	4400	490	44000	13000
Methane (%)	0.5	0.5	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.5
Naphthalene	3.6	13	36	130	152
Tetrachloroethene	470	180	4700	1800	1700
Toluene		22000		220000	
trans-1,2-Dichloroethene		260		2600	
Trichloroethene	30	8.8	300	88	100
Total HI		1		1	
Total Risk SN	1E-5		1E-5		
Xylenes (total)		440		4400	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story, commercial-use building, constructed prior to 1949. 4,557 sq. ft. slab-on-grade, unsealed concrete building, with crawl space possibly present on south side. Shallow concrete pit present in southwest corner of warehouse. Large sealed floor cracks observed in middle portion of building. Floor staining observed in warehouse and rear storage shed. Gasoline UST removed from former Conway Fence facility in 1990. Weather seals in poor condition. Overhead doors open at time of building survey. Heated by forced air natural gas furnace. Central A/C present in retail and office areas. Window unit A/C present in northern portion of building. Exterior openings - vents, fans, utility pipe penetrations, windows, overhead and personnel doors.
Occupancy - tenant about to vacate premises at time of building survey

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

figure 2.17
PARCEL 5175 - FORMER ALLIANCE EQUIPMENT & SUPPLY BUILDING 1
2075 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA029 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- CRAWL SPACE AIR SAMPLE LOCATION
- PROPOSED CONTINGENCY INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV NO VALUE

Parcel 4610- Bldg A- Outdoor Air	Jul 2012	Aug 2012
	%	%
Methane	0.20 U	-
Methane, field	0	0

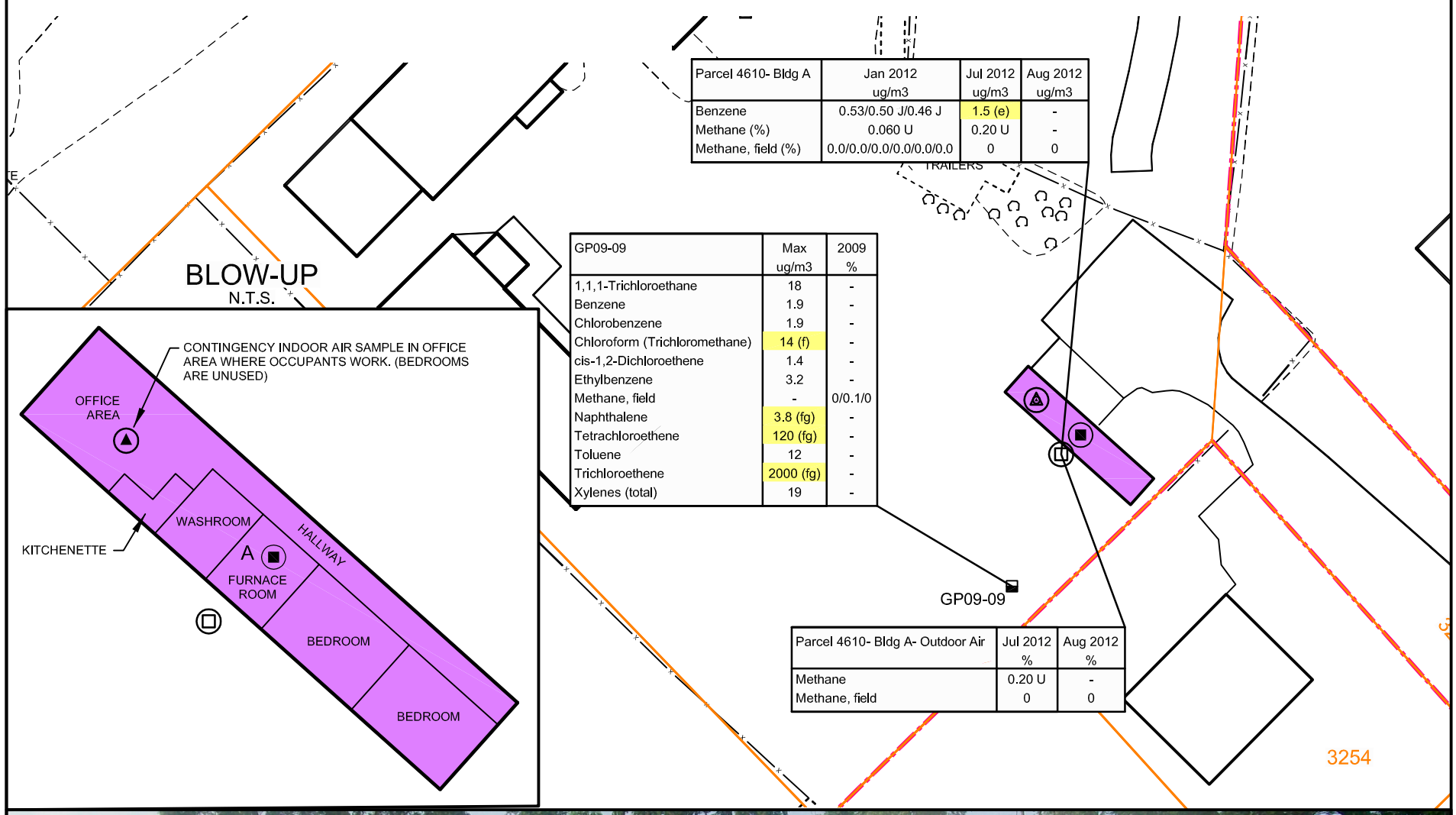
- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CONCENTRATION VALUE
- COMPOUND
- EXCEEDANCES
- Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.
- 1.8/1.8 RESULT/DUPLICATE RESULT
- J ESTIMATED
- U NOT DETECTED

0 20 50ft

CHEMICAL NAME	1	2	3	4	5
Benzene	3.1	31	31	310	1
Chlorobenzene		52		520	
Chloroform (Trichloromethane)	1.1	100	11	1000	100
cis-1,2-Dichloroethene		63		630	35
Ethylbenzene	9.7	1000	97	10000	300
Methane (%)	0.05	0.05	0.5	0.5	0.05
Methane, field (%)	0.05	0.05	0.5	0.5	0.05
Naphthalene	0.72	3.1	7.2	31	3.67
Tetrachloroethene	94	42	940	420	40
Toluene		5200		52000	
Trichloroethene	4.3	2.1	43	21	2
Total Risk SN	1E-5		1E-5		
Xylenes (total)		100		1000	

SCREENING LEVELS:
1. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION TARGET ELCR (a, f)
2. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION AND TARGET HI (b, g)
3. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,h)
4. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,i)
5. OHIO DEPARTMENT OF HEALTH RESIDENTIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH RESIDENTIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (o)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE RESIDENTIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR RESIDENTIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



Building Characteristics:
Single-story, residential trailer, constructed early 1990s. 685 sq. ft. trailer with crawl space enclosed by wood skirting in poor condition, over a concrete pad. Concrete and wood appear damp. Insulated trailer with average air tightness, weather seals in fair condition. Heating provided by forced air propane furnace. Central A/C present. Exterior openings - vents, utility pipe penetrations, windows, doors.

figure 2.18

PARCEL 4610 - RESIDENTIAL BUILDING A
2225A EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA009 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV NO VALUE

Parcel 4610- Outdoor Air	Jan 2012
	%
Methane, field	0.0/0.0

SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

J ESTIMATED

U NOT DETECTED

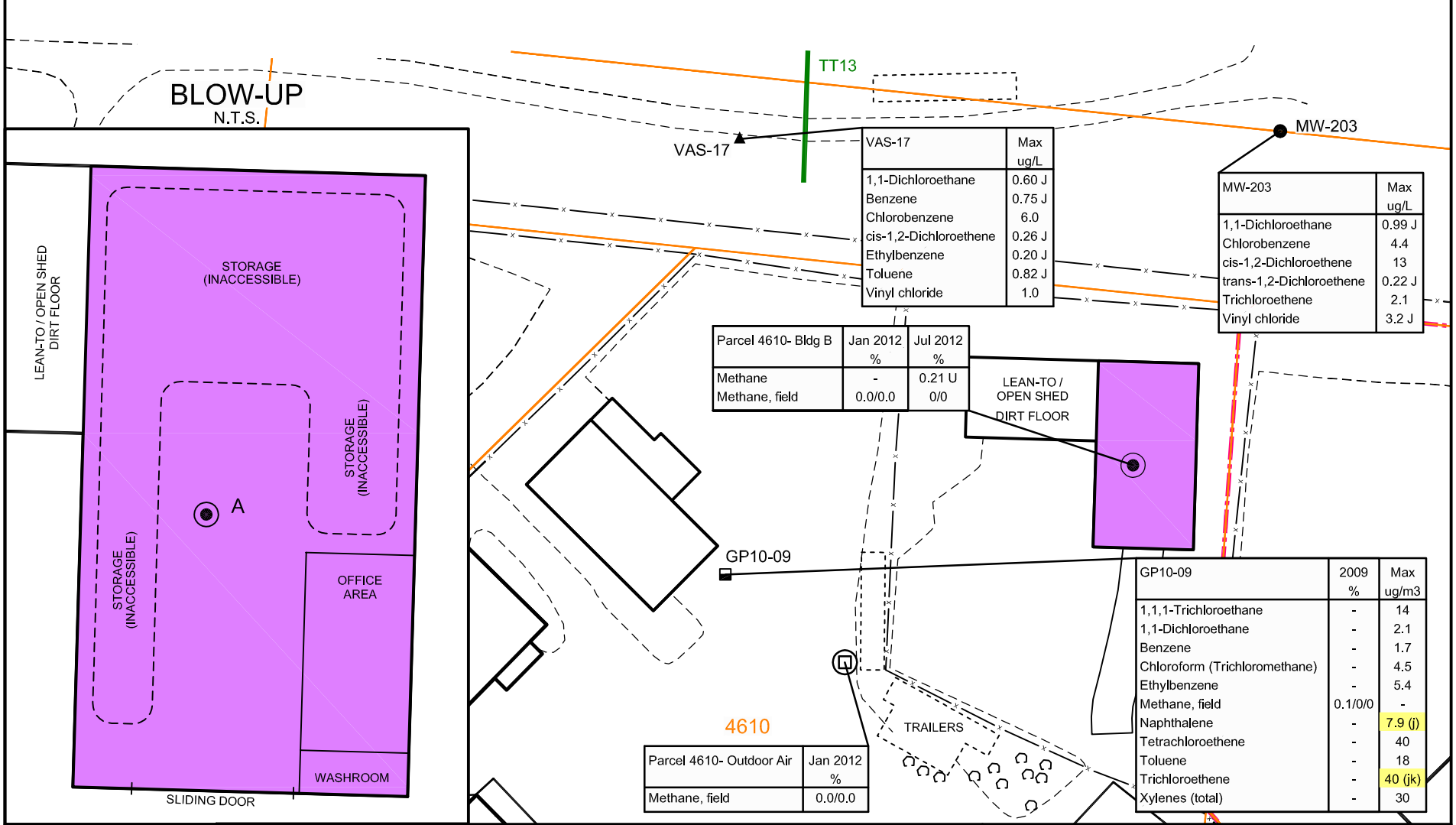
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	6
1,1-Dichloroethane	77		630
Benzene	16	130	40
Chloroform (Trichloromethane)	5.3	430	4000
Ethylbenzene	49	4400	13000
Methane (%)	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5
Naphthalene	3.6	13	152
Tetrachloroethene	470	180	1700
Toluene		22000	
Trichloroethene	30	8.8	100
Xylenes (total)		440	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



VAS-17	Max ug/L
1,1-Dichloroethane	0.60 J
Benzene	0.75 J
Chlorobenzene	6.0
cis-1,2-Dichloroethene	0.26 J
Ethylbenzene	0.20 J
Toluene	0.82 J
Vinyl chloride	1.0

MW-203	Max ug/L
1,1-Dichloroethane	0.99 J
Chlorobenzene	4.4
cis-1,2-Dichloroethene	13
trans-1,2-Dichloroethene	0.22 J
Trichloroethene	2.1
Vinyl chloride	3.2 J

Parcel 4610- Bldg B	Jan 2012 %	Jul 2012 %
Methane	-	0.21 U
Methane, field	0.0/0.0	0/0

Parcel 4610- Outdoor Air	Jan 2012 %
Methane, field	0.0/0.0

GP10-09	2009 %	Max ug/m3
1,1,1-Trichloroethane	-	14
1,1-Dichloroethane	-	2.1
Benzene	-	1.7
Chloroform (Trichloromethane)	-	4.5
Ethylbenzene	-	5.4
Methane, field	0.1/0/0	-
Naphthalene	-	7.9 (j)
Tetrachloroethene	-	40
Toluene	-	18
Trichloroethene	-	40 (jk)
Xylenes (total)	-	30

Building Characteristics:
Single-story commercial-use storage building, constructed prior to 1993. Primarily warehouse space with modular office space (not currently in use). Attached open garage with dirt floor. Footprint is 1,800 sq. ft. (without garage). Approximately 20 ft. high ceilings. Concrete block foundation walls in poor condition. Constructed with wood frame and steel beams, covered with steel cladding. Slab-on-grade, exposed concrete floor with large cracks. Not air tight, no weather seals. No HVAC system present in building. Window A/C unit present in office draws air from warehouse. Exterior openings - large sliding door, personnel door. Occasional occupancy two to three times per month to pick up or drop off storage items.

figure 2.19

PARCEL 4610 - RON BARNETT CONSTRUCTION BUILDING B
2225B EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA010 DEC 4/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 — MONITORING WELL LOCATION
- VAS01 — VAS SAMPLING LOCATION
- GP04-09 — DEEP LANDFILL GAS PROBE
- TT1 — TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- NV — NO VALUE

0 20 50ft

Parcel 4610- Outdoor Air	Jan 2012
	%
Methane, field	0.0/0.0

SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

J ESTIMATED

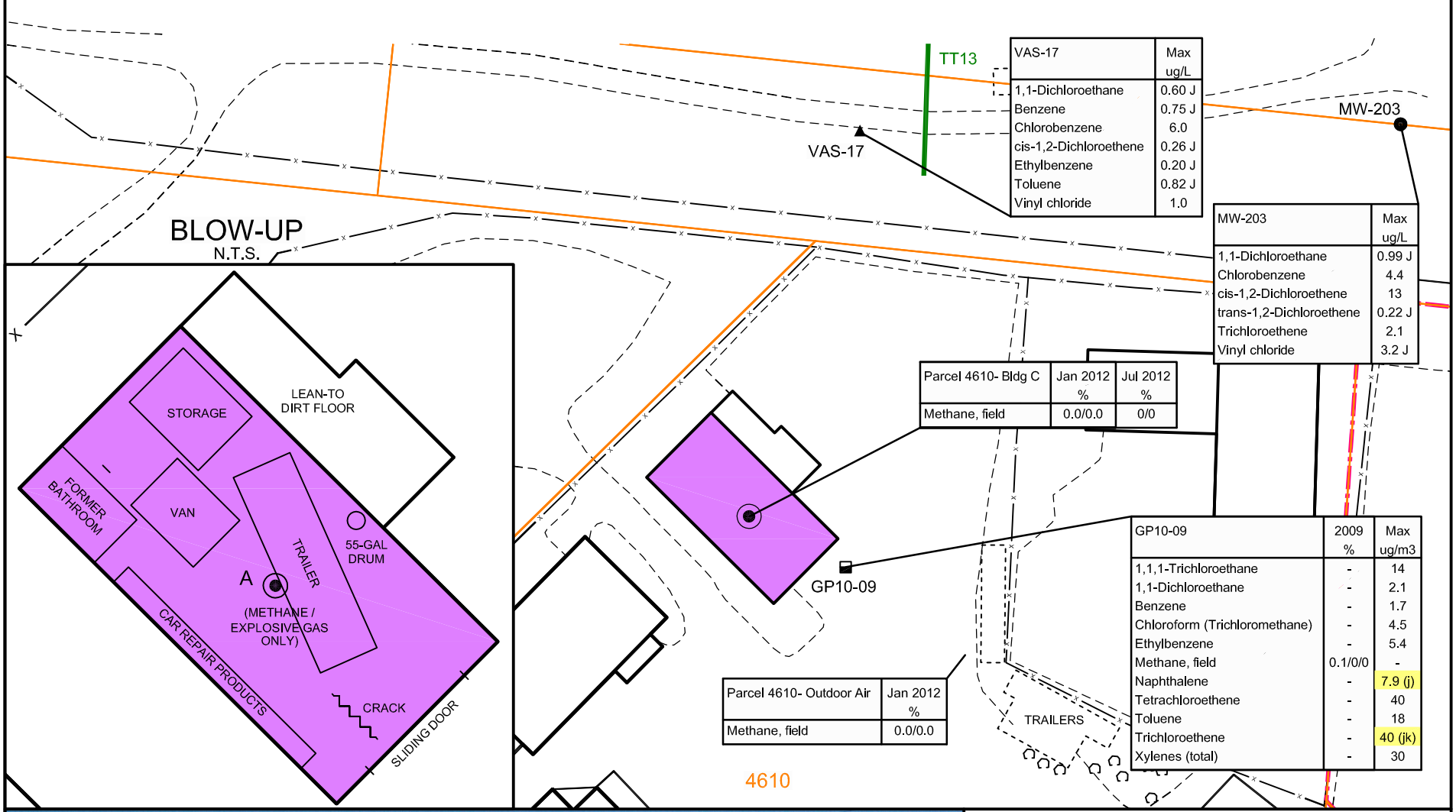
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	6
1,1-Dichloroethane	77		630
Benzene	16	130	40
Chloroform (Trichloromethane)	5.3	430	4000
Ethylbenzene	49	4400	13000
Methane (%)	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5
Naphthalene	3.6	13	152
Tetrachloroethene	470	180	1700
Toluene		22000	
Trichloroethene	30	8.8	100
Xylenes (total)		440	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



VAS-17	Max ug/L
1,1-Dichloroethane	0.60 J
Benzene	0.75 J
Chlorobenzene	6.0
cis-1,2-Dichloroethene	0.26 J
Ethylbenzene	0.20 J
Toluene	0.82 J
Vinyl chloride	1.0

MW-203	Max ug/L
1,1-Dichloroethane	0.99 J
Chlorobenzene	4.4
cis-1,2-Dichloroethene	13
trans-1,2-Dichloroethene	0.22 J
Trichloroethene	2.1
Vinyl chloride	3.2 J

Parcel 4610- Bldg C	Jan 2012	Jul 2012
	%	%
Methane, field	0.0/0.0	0/0

Parcel 4610- Outdoor Air	Jan 2012
	%
Methane, field	0.0/0.0

GP10-09	2009 %	Max ug/m3
1,1,1-Trichloroethane	-	14
1,1-Dichloroethane	-	2.1
Benzene	-	1.7
Chloroform (Trichloromethane)	-	4.5
Ethylbenzene	-	5.4
Methane, field	0.1/0/0	-
Naphthalene	-	7.9 (j)
Tetrachloroethene	-	40
Toluene	-	18
Trichloroethene	-	40 (jk)
Xylenes (total)	-	30

Building Characteristics:
Single-story commercial-use storage building, constructed in early 1990s. 1,088 sq. ft slab-on-grade, approximately 16 ft high building with fair condition, unsealed foundation and floor cracks. Constructed with wood frame, covered with steel cladding. Not air tight, no weather seals. No HVAC system present in building. Exterior openings - sliding door and personnel door.
No regular occupancy - storage only

figure 2.20

PARCEL 4610 - RON BARNETT CONSTRUCTION BUILDING C
2225C EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA011 DEC 4/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- TT1 TEST TRENCH LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- NV NO VALUE

0 20 50ft

Parcel 4610- Bldg D	Jan 2012	Jul 2012
	%	%
Methane, field	0.0/0.0	0/0

SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

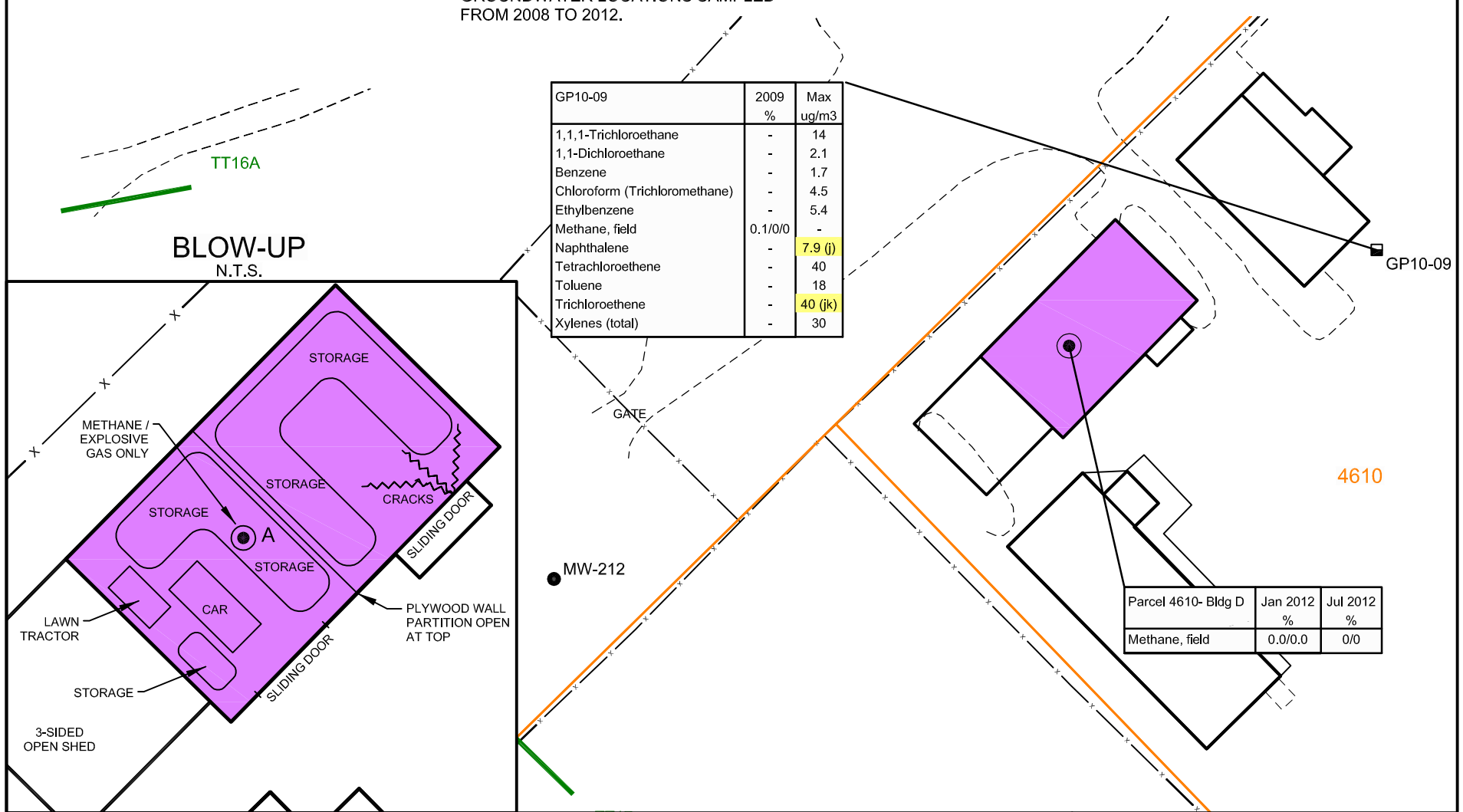
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	6
1,1-Dichloroethane	77		630
Benzene	16	130	40
Chloroform (Trichloromethane)	5.3	430	4000
Ethylbenzene	49	4400	13000
Methane (%)	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5
Naphthalene	3.6	13	152
Tetrachloroethene	470	180	1700
Toluene		22000	
Trichloroethene	30	8.8	100
Xylenes (total)		440	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



GP10-09	2009	Max
	%	ug/m3
1,1,1-Trichloroethane	-	14
1,1-Dichloroethane	-	2.1
Benzene	-	1.7
Chloroform (Trichloromethane)	-	4.5
Ethylbenzene	-	5.4
Methane, field	0.1/0/0	-
Naphthalene	-	7.9 (j)
Tetrachloroethene	-	40
Toluene	-	18
Trichloroethene	-	40 (jk)
Xylenes (total)	-	30

Parcel 4610- Bldg D	Jan 2012	Jul 2012
	%	%
Methane, field	0.0/0.0	0/0

Building Characteristics:
Single-story commercial-use storage building, with construction completed in early 1990s. constructed prior to 1993. Attached open garage with dirt floor. Footprint is 1,200 sq. ft. (without garage). Approximately 16 ft. high ceilings. Constructed with wood frame, covered with plywood and steel cladding. Plywood partition, open at the top, divides the interior space. Slab-on-grade, exposed concrete floor with some cracks. Not air tight, no weather seals. No HVAC system present in building. Exterior openings - 2 large sliding doors, 2 personnel doors.
No regular occupancy, storage only.

figure 2.21

PARCEL 4610 - RON BARNETT CONSTRUCTION BUILDING D
2225D EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA012 DEC 4/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- PROPOSED CONTINGENCY INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV NO VALUE

0 20 50ft

GP09-09	Max ug/m3	2009 %
1,1,1-Trichloroethane	18	-
Benzene	1.9	-

SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

U NOT DETECTED

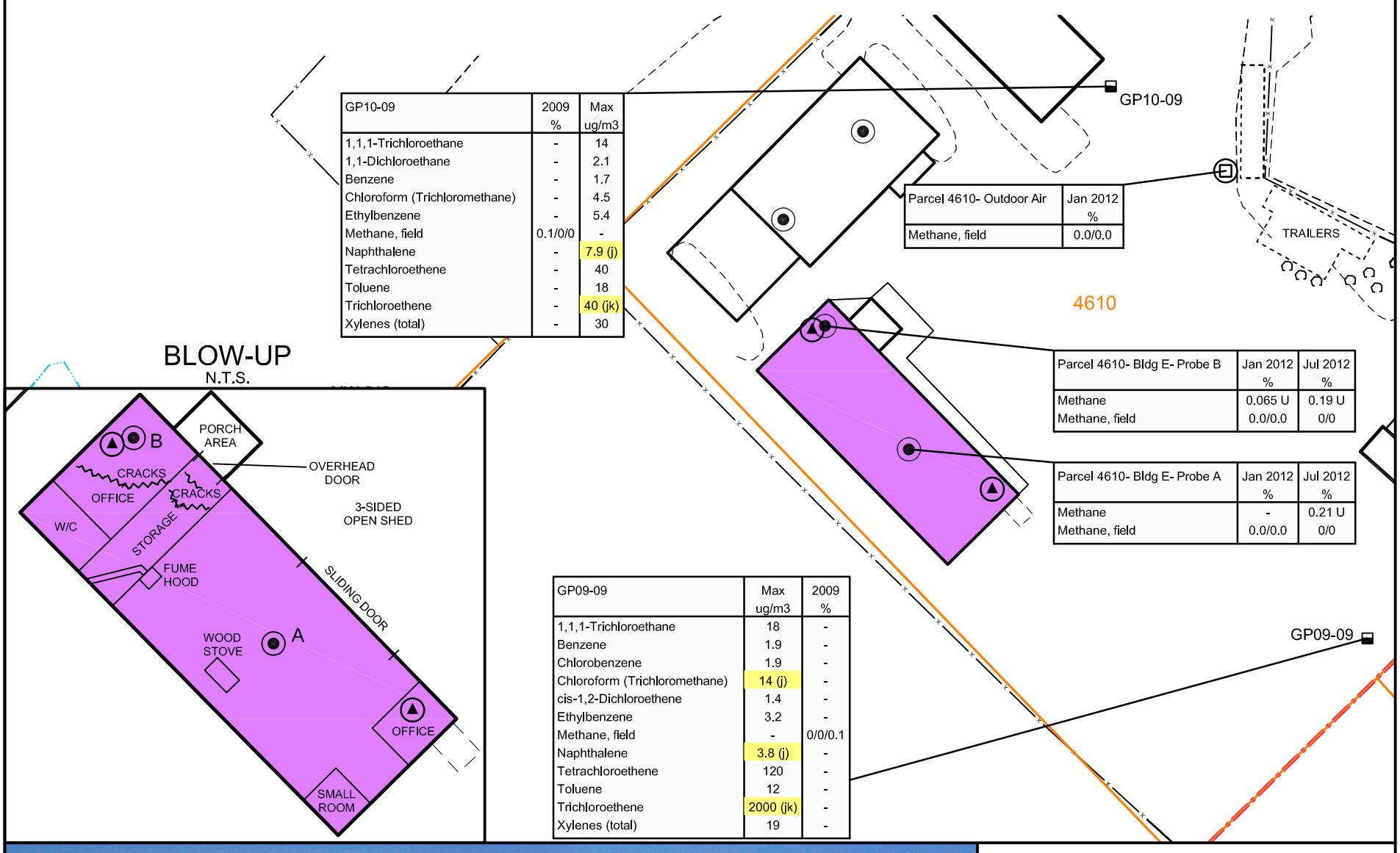
EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	6
1,1-Dichloroethane	77		770		630
Benzene	16	130	160	1300	40
Chloroform (Trichloromethane)	5.3	430	53	4300	4000
Ethylbenzene	49	4400	490	44000	13000
Methane (%)	0.5	0.5	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.5
Naphthalene	3.6	13	36	130	152
Tetrachloroethene	470	180	4700	1800	1700
Toluene		22000		220000	
Trichloroethene	30	8.8	300	88	100
Xylenes (total)		440		4400	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



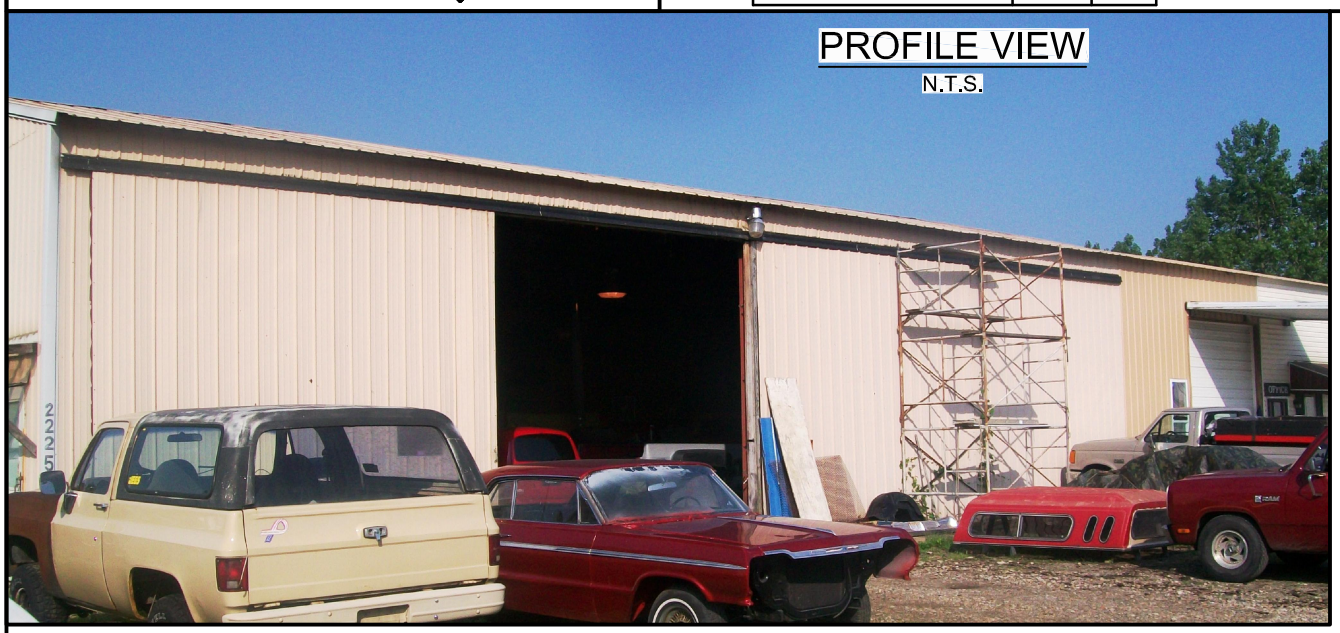
GP10-09	2009 %	Max ug/m3
1,1,1-Trichloroethane	-	14
1,1-Dichloroethane	-	2.1
Benzene	-	1.7
Chloroform (Trichloromethane)	-	4.5
Ethylbenzene	-	5.4
Methane, field	0.1/0/0	-
Naphthalene	-	7.9 (j)
Tetrachloroethene	-	40
Toluene	-	18
Trichloroethene	-	40 (jk)
Xylenes (total)	-	30

Parcel 4610- Outdoor Air	Jan 2012 %
Methane, field	0.0/0.0

Parcel 4610- Bldg E- Probe B	Jan 2012 %	Jul 2012 %
Methane	0.065 U	0.19 U
Methane, field	0.0/0.0	0/0

Parcel 4610- Bldg E- Probe A	Jan 2012 %	Jul 2012 %
Methane	-	0.21 U
Methane, field	0.0/0.0	0/0

GP09-09	Max ug/m3	2009 %
1,1,1-Trichloroethane	18	-
Benzene	1.9	-
Chlorobenzene	1.9	-
Chloroform (Trichloromethane)	14 (j)	-
cis-1,2-Dichloroethene	1.4	-
Ethylbenzene	3.2	-
Methane, field	-	0/0/0.1
Naphthalene	3.8 (j)	-
Tetrachloroethene	120	-
Toluene	12	-
Trichloroethene	2000 (jk)	-
Xylenes (total)	19	-



Building Characteristics:
Single-story commercial-use car repair building with office and storage areas, construction completed by early 1990s. 1,200 sq. ft. unsealed, four-inch concrete slab-on-grade, approximately 20 ft. high building, with steel cladding. Significant floor cracks in office and adjacent storage area. Not air tight, weather seals in office are in fair condition, no weather seals in storage area. Electric baseboard heating and window A/C present in office. Wood stove present, vents through roof. Exterior openings - utility pipe penetrations, windows, sliding bay and overhead garage doors.
No regularly scheduled occupancy - occasional evening and weekend occupancy by two adults. Office may be occupied during normal working hours by one adult.

figure 2.22

PARCEL 4610 - RON BARNETT CONSTRUCTION BUILDING E
2225E EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA013 DEC 4/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- VAS01 VAS SAMPLING LOCATION
- GP11-09 DEEP LANDFILL GAS PROBE
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 3207- Bldg 1- IA_A	Mar 2012 %	Aug 2012 %
Methane	-	0.21 U
Methane, field	0/0.0	0/0

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
CONCENTRATION VALUE
COMPOUND

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

J ESTIMATED

U NOT DETECTED

UJ ESTIMATED REPORTING DETECTION LIMIT

EXCEEDANCES

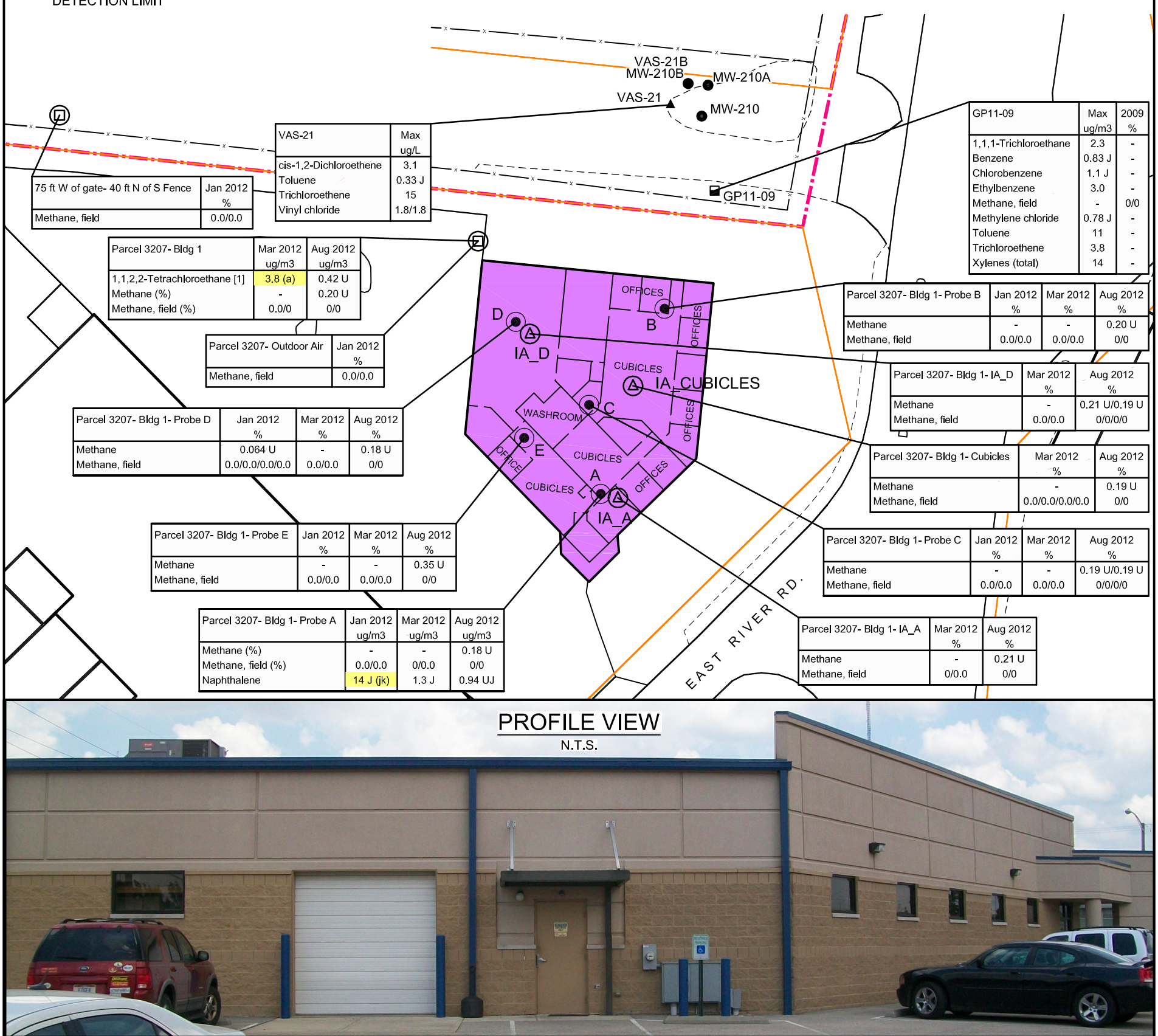
Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	5	6
1,1,2,2-Tetrachloroethane	2.1			
Benzene	16	130	4	40
Chlorobenzene		220		
cis-1,2-Dichloroethene		260	150	1500
Ethylbenzene	49	4400	1300	13000
Methane (%)	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.05	0.5
Naphthalene	3.6	13	15.2	152
Toluene		22000		
Trichloroethene	30	8.8	10	100
Xylenes (total)		440		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



VAS-21	Max ug/L
cis-1,2-Dichloroethene	3.1
Toluene	0.33 J
Trichloroethene	15
Vinyl chloride	1.8/1.8

GP11-09	Max ug/m3	2009 %
1,1,1-Trichloroethane	2.3	-
Benzene	0.83 J	-
Chlorobenzene	1.1 J	-
Ethylbenzene	3.0	-
Methane, field	-	0/0
Methylene chloride	0.78 J	-
Toluene	11	-
Trichloroethene	3.8	-
Xylenes (total)	14	-

75 ft W of gate- 40 ft N of S Fence	Jan 2012 %
Methane, field	0.0/0.0

Parcel 3207- Bldg 1	Mar 2012 ug/m3	Aug 2012 ug/m3
1,1,2,2-Tetrachloroethane [1]	3.8 (a)	0.42 U
Methane (%)	-	0.20 U
Methane, field (%)	0.0/0	0/0

Parcel 3207- Outdoor Air	Jan 2012 %
Methane, field	0.0/0.0

Parcel 3207- Bldg 1- Probe B	Jan 2012 %	Mar 2012 %	Aug 2012 %
Methane	-	-	0.20 U
Methane, field	0.0/0.0	0.0/0.0	0/0

Parcel 3207- Bldg 1- IA_D	Mar 2012 %	Aug 2012 %
Methane	-	0.21 U/0.19 U
Methane, field	0.0/0.0	0/0/0/0

Parcel 3207- Bldg 1- Probe D	Jan 2012 %	Mar 2012 %	Aug 2012 %
Methane	0.064 U	-	0.18 U
Methane, field	0.0/0.0/0.0/0.0	0.0/0.0	0/0

Parcel 3207- Bldg 1- Cubicles	Mar 2012 %	Aug 2012 %
Methane	-	0.19 U
Methane, field	0.0/0.0/0.0/0.0	0/0

Parcel 3207- Bldg 1- Probe E	Jan 2012 %	Mar 2012 %	Aug 2012 %
Methane	-	-	0.35 U
Methane, field	0.0/0.0	0.0/0.0	0/0

Parcel 3207- Bldg 1- Probe C	Jan 2012 %	Mar 2012 %	Aug 2012 %
Methane	-	-	0.19 U/0.19 U
Methane, field	0.0/0.0	0.0/0.0	0/0/0/0

Parcel 3207- Bldg 1- Probe A	Jan 2012 ug/m3	Mar 2012 ug/m3	Aug 2012 ug/m3
Methane (%)	-	-	0.18 U
Methane, field (%)	0.0/0.0	0/0.0	0/0
Naphthalene	14 J (jk)	1.3 J	0.94 UJ

Parcel 3207- Bldg 1- IA_A	Mar 2012 %	Aug 2012 %
Methane	-	0.21 U
Methane, field	0/0.0	0/0

PROFILE VIEW

N.T.S.

Building Characteristics:
Single-story commercial/industrial-use building. Primarily office space with some assembly/ warehouse space. Constructed in 2004 over historic location of gas station and junk yard. Footprint is 9,954 sq. ft. Slab-on-grade concrete building, unsealed joints in assembly/ warehouse room. Wall-to-wall carpeting in the office space. Insulated and air tight building, with weather seals in good condition. Heating provided by forced air natural gas roof-top units. Central A/C provided by roof-top units. Exterior openings - vents, utility pipe penetrations, inoperable windows, personnel doors, roll-up door. Occupied weekdays from 8 AM to 5 PM by approximately 15 adult workers.

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

figure 2.23

PARCEL 3207 - GLOBE EQUIPMENT BUILDING 1
2153 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA005 NOV 30/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-202 MONITORING WELL LOCATION
- GP11-09 DEEP LANDFILL GAS PROBE
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 3207- Bldg 2- IA_F	Mar 2012	Aug 2012
	%	%
Methane	-	0.19 U
Methane, field	0/0.0	0/0

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

J ESTIMATED

U NOT DETECTED

UJ ESTIMATED REPORTING DETECTION LIMIT

EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	6
Benzene	16	130	160	1300	40
Chlorobenzene		220		2200	
Chloroform (Trichloromethane)	5.3	430	53	4300	4000
cis-1,2-Dichloroethene		260		2600	1500
Ethylbenzene	49	4400	490	44000	13000
Methane (%)	0.5	0.5	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.5
Naphthalene	3.6	13	36	130	152
Tetrachloroethene	470	180	4700	1800	1700
Toluene		22000		220000	
trans-1,2-Dichloroethene		260		2600	
Trichloroethene	30	8.8	300	88	100
Total HI		1		1	
Xylenes (total)		440		4400	

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
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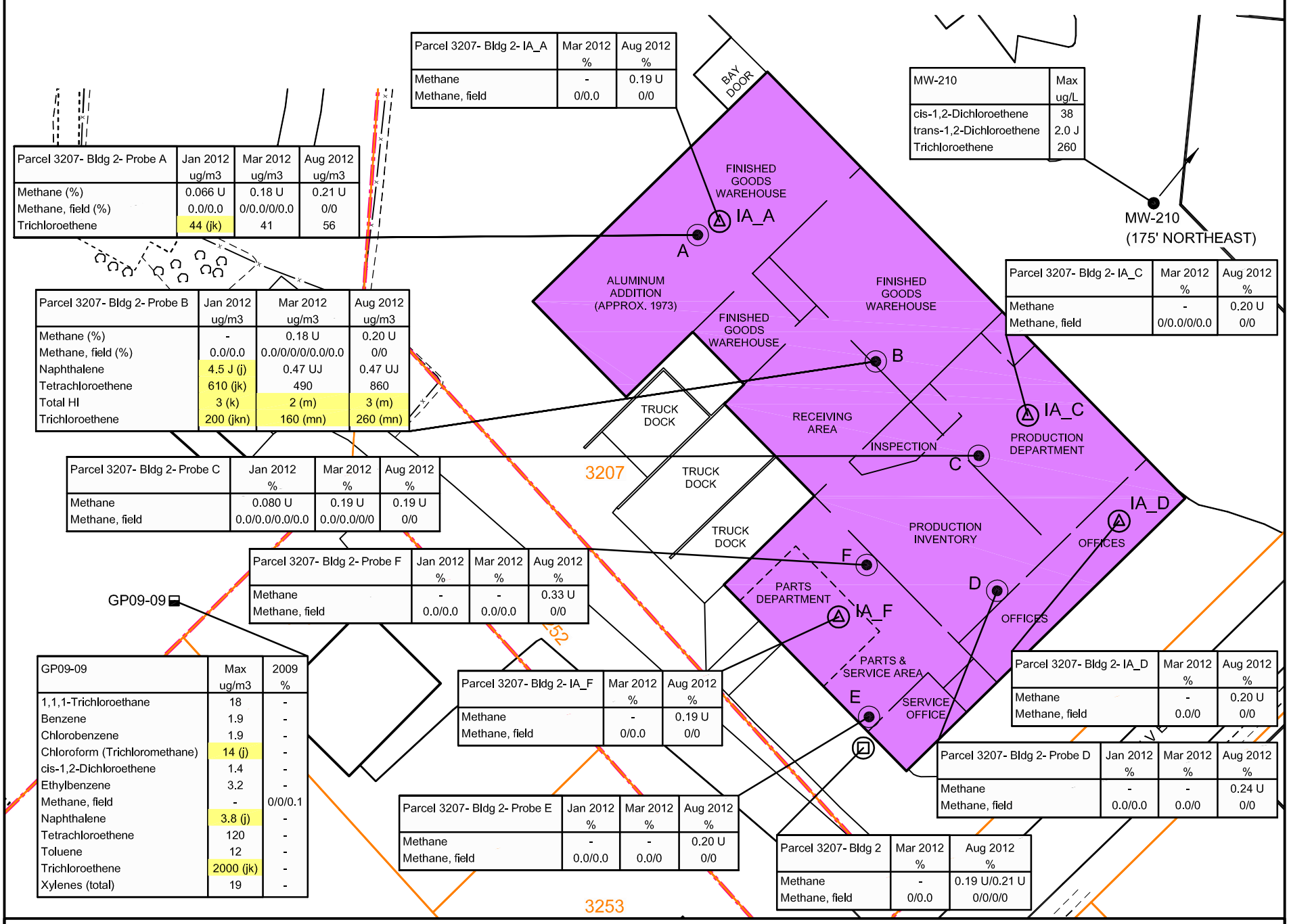
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



Parcel 3207- Bldg 2- IA_A	Mar 2012	Aug 2012
	%	%
Methane	-	0.19 U
Methane, field	0/0.0	0/0

MW-210	Max
	ug/L
cis-1,2-Dichloroethene	38
trans-1,2-Dichloroethene	2.0 J
Trichloroethene	260

Parcel 3207- Bldg 2- Probe A	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	0.066 U	0.18 U	0.21 U
Methane, field (%)	0.0/0.0	0/0.0/0/0.0	0/0
Trichloroethene	44 (jk)	41	56

Parcel 3207- Bldg 2- Probe B	Jan 2012	Mar 2012	Aug 2012
	ug/m3	ug/m3	ug/m3
Methane (%)	-	0.18 U	0.20 U
Methane, field (%)	0.0/0.0	0.0/0/0/0/0.0/0.0	0/0
Naphthalene	4.5 J (j)	0.47 UJ	0.47 UJ
Tetrachloroethene	610 (jk)	490	860
Total HI	3 (k)	2 (m)	3 (m)
Trichloroethene	200 (jkn)	160 (mn)	260 (mn)

Parcel 3207- Bldg 2- IA_C	Mar 2012	Aug 2012
	%	%
Methane	-	0.20 U
Methane, field	0/0.0/0/0.0	0/0

Parcel 3207- Bldg 2- Probe C	Jan 2012	Mar 2012	Aug 2012
	%	%	%
Methane	0.080 U	0.19 U	0.19 U
Methane, field	0.0/0.0/0.0/0.0	0.0/0.0/0/0	0/0

Parcel 3207- Bldg 2- Probe F	Jan 2012	Mar 2012	Aug 2012
	%	%	%
Methane	-	-	0.33 U
Methane, field	0.0/0.0	0.0/0.0	0/0

GP09-09	Max	2009
	ug/m3	%
1,1,1-Trichloroethane	18	-
Benzene	1.9	-
Chlorobenzene	1.9	-
Chloroform (Trichloromethane)	14 (j)	-
cis-1,2-Dichloroethene	1.4	-
Ethylbenzene	3.2	-
Methane, field	-	0/0/0.1
Naphthalene	3.8 (j)	-
Tetrachloroethene	120	-
Toluene	12	-
Trichloroethene	2000 (jk)	-
Xylenes (total)	19	-

Parcel 3207- Bldg 2- IA_F	Mar 2012	Aug 2012
	%	%
Methane	-	0.19 U
Methane, field	0/0.0	0/0

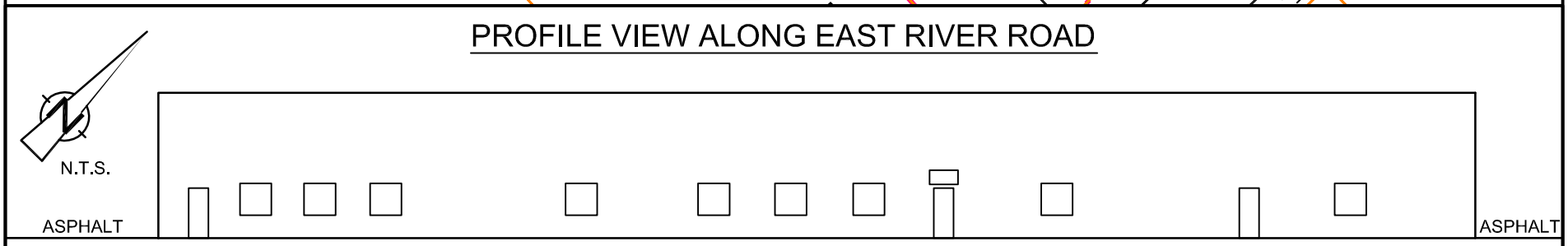
Parcel 3207- Bldg 2- IA_D	Mar 2012	Aug 2012
	%	%
Methane	-	0.20 U
Methane, field	0.0/0	0/0

Parcel 3207- Bldg 2- Probe D	Jan 2012	Mar 2012	Aug 2012
	%	%	%
Methane	-	-	0.24 U
Methane, field	0.0/0.0	0.0/0	0/0

Parcel 3207- Bldg 2- Probe E	Jan 2012	Mar 2012	Aug 2012
	%	%	%
Methane	-	-	0.20 U
Methane, field	0.0/0.0	0.0/0	0/0

Parcel 3207- Bldg 2	Mar 2012	Aug 2012
	%	%
Methane	-	0.19 U/0.21 U
Methane, field	0/0.0	0/0/0/0

PROFILE VIEW ALONG EAST RIVER ROAD



Building Characteristics:
Single-story industrial-use slab-on-grade building. Primarily assembly/warehouse space with some office space. Main portion of the building constructed prior to 1968 of concrete block. Northern addition was constructed prior to 1973 of steel frame and aluminum siding. Total footprint is 19,803 sq. ft. Building is 16 ft. high, office space has 8 ft.drop ceilings. Majority of the building has bare concrete floors, except office space is carpeted. Some large cracks in the slab are visible, some cracks are sealed. Building is not insulated, average air tightness with no weather seals present. Heating provided by forced air natural gas furnace. Central A/C provided by roof-top units. Exterior openings - vents, fans, utility pipe penetrations, windows, bay doors, and personnel doors. Windows and bay doors are open in good weather. Occupied weekdays from 7 AM to 5 PM by approximately 25 adult workers.

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

figure 2.24

PARCEL 3207 - GLOBE EQUIPMENT BUILDING 2
2215 AND 2219 EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA004 DEC 4/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- GP04-09 DEEP LANDFILL GAS PROBE
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 50ft

Parcel 3254- Bldg 1- IA_A	Sep 2012
	ug/m3
Benzene [1]	8.8 (e)
Methane (%)	0.19 U
Methane, field (%)	0/0

SAMPLE ID (PARCEL - BUILDING)
SAMPLE DATE
SAMPLE UNIT
CONCENTRATION VALUE
COMPOUND

[1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE

U NOT DETECTED

EXCEEDANCES

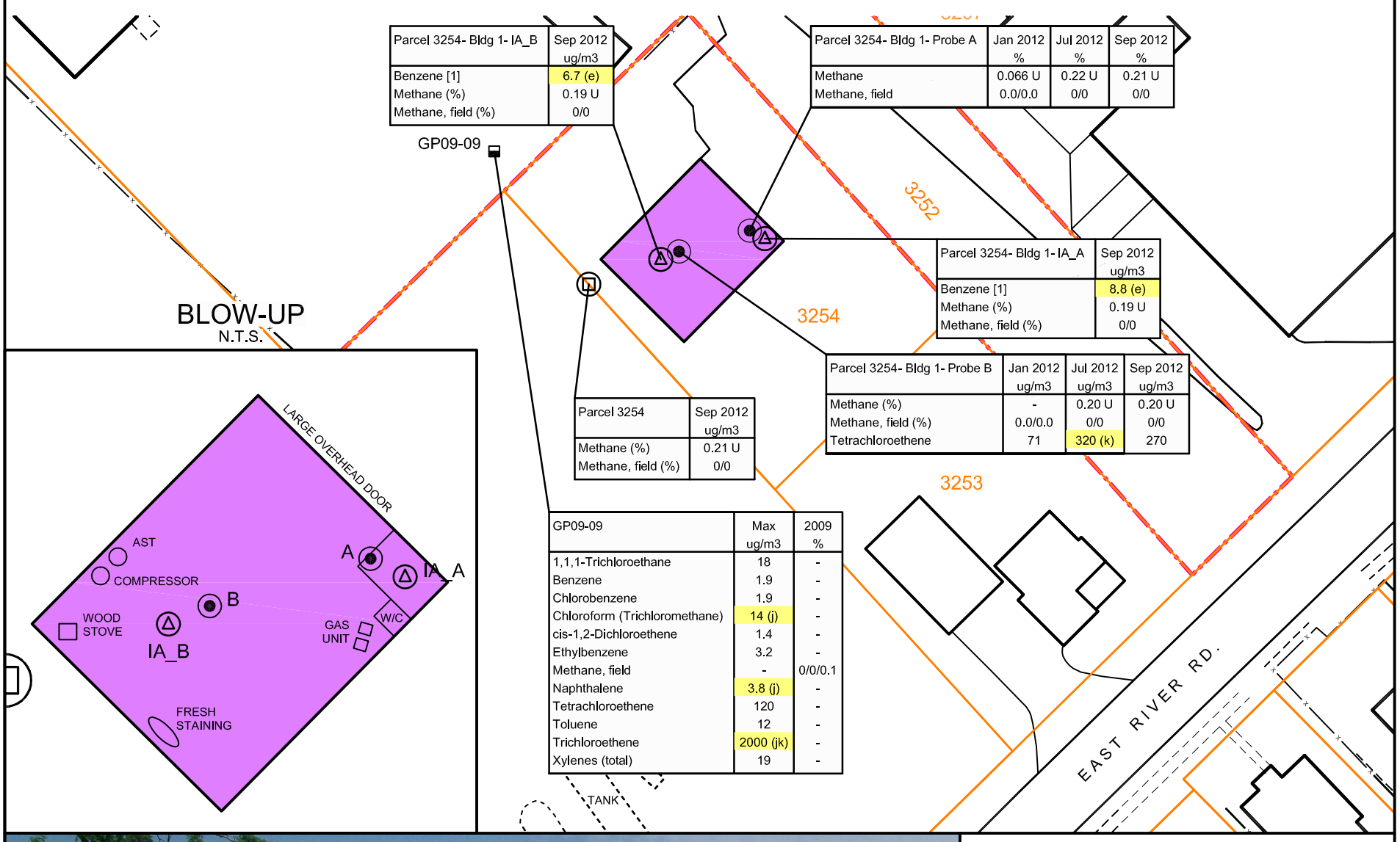
Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

1.8/1.8 RESULT/DUPLICATE RESULT

CHEMICAL NAME	1	2	3	4	5	6
Benzene	16	130	160	1300	4	40
Chlorobenzene		220		2200		
Chloroform (Trichloromethane)	5.3	430	53	4300	400	4000
cis-1,2-Dichloroethene		260		2600	150	1500
Ethylbenzene	49	4400	490	44000	1300	13000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Naphthalene	3.6	13	36	130	15.2	152
Tetrachloroethene	470	180	4700	1800	170	1700
Toluene		22000		220000		
Trichloroethene	30	8.8	300	88	10	100
Xylenes (total)		440		4400		

SCREENING LEVELS:
1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



PROFILE VIEW

N.T.S.

Building Characteristics:
Single-story concrete block building constructed prior to 1968. Commercial-use, heavy truck repair. Footprint is 2,000 sq. ft. Ceiling is approximately 20 ft. high, sheet metal roof. Not insulated, unsealed and cracked walls. Slab-on-grade, exposed concrete floor with large cracks, majority of the floor is heavily stained, especially at rear of building adjacent to AST and compressor. Not air tight; no weather seals present. Heating provided by overhead natural gas heaters. Wood stove present with vent through west wall. Exterior openings - vents, fans, utility pipe penetrations, 6 windows, large overhead door, personnel door. May have used chlorinated solvents historically in parts washer, now only uses mineral spirits. Occupied weekdays from 8 AM to 5 PM, by three to four adult workers.

figure 2.25

PARCEL 3254 - MIDDLETON TRUCKING BUILDING 1
2233 REAR EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA008 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- GP04-09 — DEEP LANDFILL GAS PROBE
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV — NO VALUE

0 20 50ft

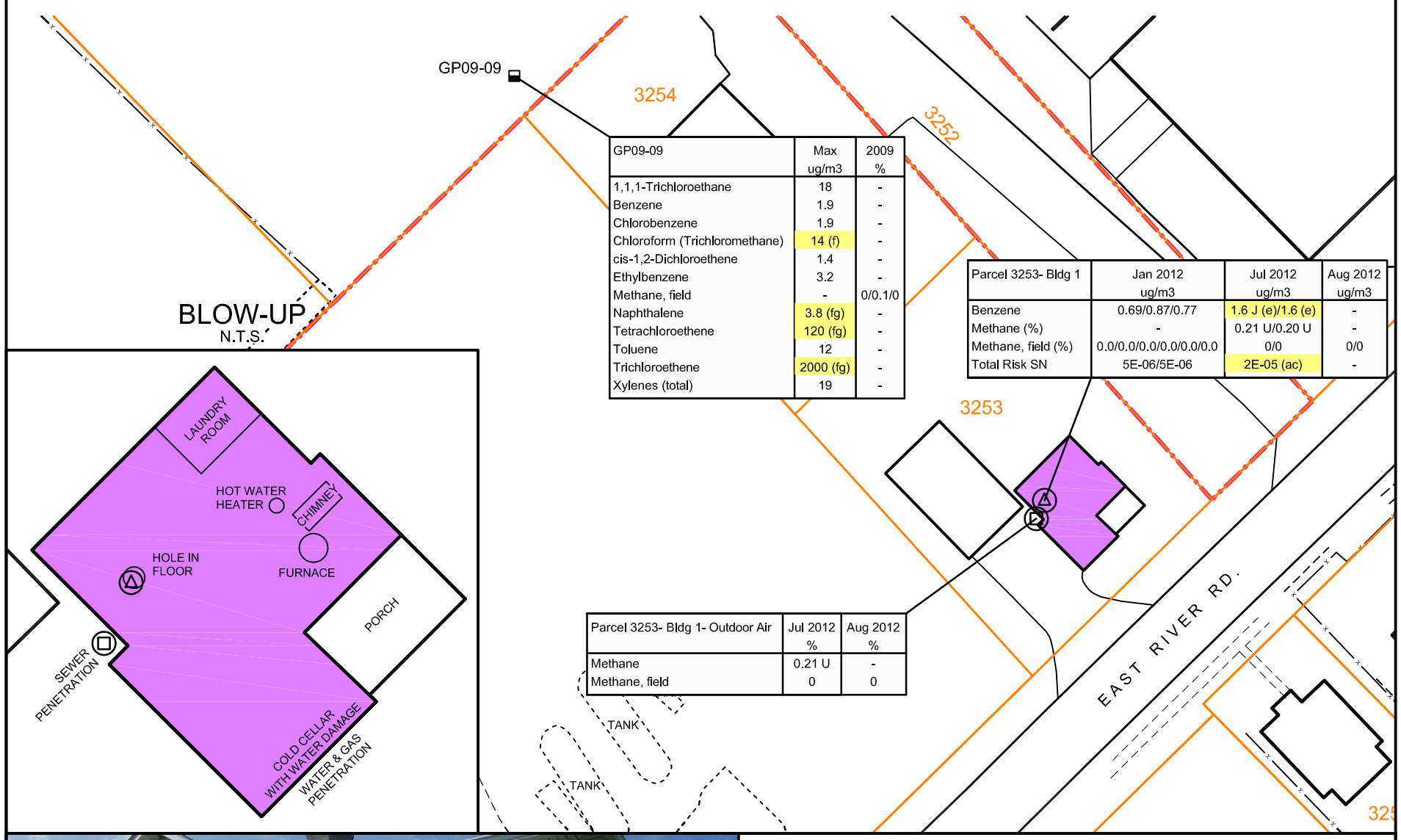
Parcel 3253- Bldg 1- Outdoor Air	Jul 2012 %	Aug 2012 %
Methane	0.21 U	-
Methane, field	0	0

- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CONCENTRATION VALUE
- COMPOUND
- EXCEEDANCES
- Max — MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.
- 1.8/1.8 — RESULT/DUPLICATE RESULT
- U — NOT DETECTED
- SN — SCIENTIFIC NOTATION

CHEMICAL NAME	1	2	5
Benzene	3.1	31	1
Chlorobenzene		52	
Chloroform (Trichloromethane)	1.1	100	100
cis-1,2-Dichloroethene		63	35
Ethylbenzene	9.7	1000	300
Methane (%)	0.5	0.5	0.05
Methane, field (%)	0.5	0.5	0.05
Naphthalene	0.72	3.1	3.67
Tetrachloroethene	94	42	40
Toluene		5200	
Trichloroethene	4.3	2.1	2
Total Risk SN	1E-5		
Xylenes (total)		100	

SCREENING LEVELS:
1. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION TARGET ELCR (a, f)
2. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION AND TARGET HI (b, g)
3. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,h)
4. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,i)
5. OHIO DEPARTMENT OF HEALTH RESIDENTIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH RESIDENTIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (o)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE RESIDENTIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR RESIDENTIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.



GP09-09	Max ug/m3	2009 %
1,1,1-Trichloroethane	18	-
Benzene	1.9	-
Chlorobenzene	1.9	-
Chloroform (Trichloromethane)	14 (f)	-
cis-1,2-Dichloroethene	1.4	-
Ethylbenzene	3.2	-
Methane, field	-	0/0.1/0
Naphthalene	3.8 (fg)	-
Tetrachloroethene	120 (fg)	-
Toluene	12	-
Trichloroethene	2000 (fg)	-
Xylenes (total)	19	-

Parcel 3253- Bldg 1	Jan 2012 ug/m3	Jul 2012 ug/m3	Aug 2012 ug/m3
Benzene	0.69/0.87/0.77	1.6 J (e)/1.6 (e)	-
Methane (%)	-	0.21 U/0.20 U	-
Methane, field (%)	0.0/0.0/0.0/0.0/0.0/0.0	0/0	0/0
Total Risk SN	5E-06/5E-06	2E-05 (ac)	-

Parcel 3253- Bldg 1- Outdoor Air	Jul 2012 %	Aug 2012 %
Methane	0.21 U	-
Methane, field	0	0

PROFILE VIEW
N.T.S.

Building Characteristics:
Two-story, residential, single family house constructed in 1800s with stone foundation and vinyl siding. Unfinished basement, 926 sq. ft. with concrete floor containing an approximately 2-ft. diameter hole with pipe for condensate. Unsealed, stone and mortar foundation walls in poor condition. Average air tightness, weather seals in fair condition. Heating provided by forced air natural gas furnace. Central A/C and fireplace present. Exterior openings in the basement - utility pipe penetrations, 2 windows and personnel doors. Constant occupancy by one adult.

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

figure 2.26
PARCEL 3253, BUILDING 1
2233 FRONT EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA006 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- GP04-09 — DEEP LANDFILL GAS PROBE
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV — NO VALUE

Parcel 3253- Bldg 2	Jan 2012	Jul 2012
	%	%
Methane, field	0.0/0.0	0/0

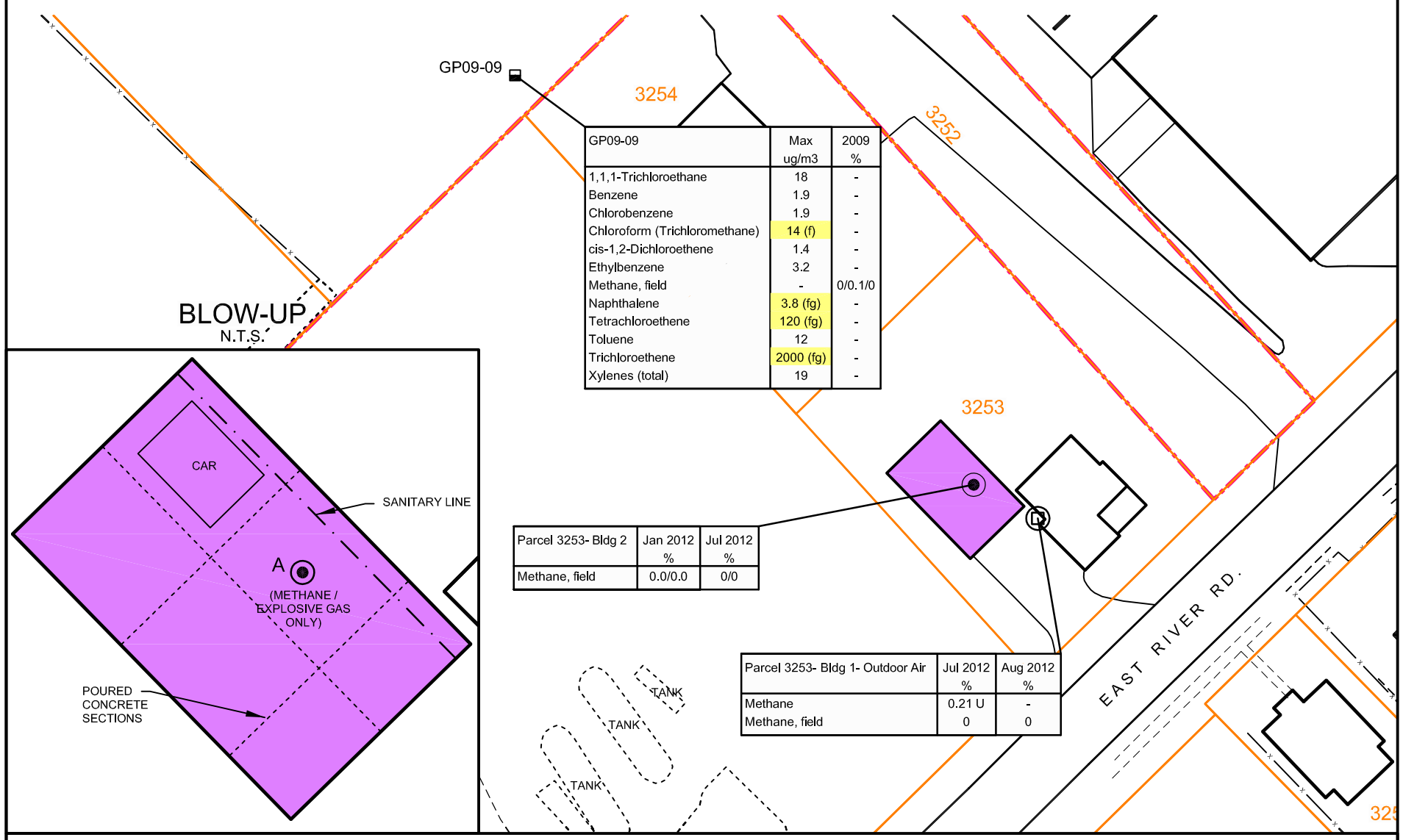
- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CONCENTRATION VALUE
- COMPOUND
- EXCEEDANCES
- Max — MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.
- 1.8/1.8 — RESULT/DUPLICATE RESULT
- U — NOT DETECTED

0 20 50ft

CHEMICAL NAME	1	2
Benzene	3.1	31
Chlorobenzene		52
Chloroform (Trichloromethane)	1.1	100
cis-1,2-Dichloroethene		63
Ethylbenzene	9.7	1000
Methane (%)	0.5	0.5
Methane, field (%)	0.5	0.5
Naphthalene	0.72	3.1
Tetrachloroethene	94	42
Toluene		5200
Trichloroethene	4.3	2.1
Xylenes (total)		100

SCREENING LEVELS:
1. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION TARGET ELCR (a, f)
2. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION AND TARGET HI (b, g)
3. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,h)
4. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,i)
5. OHIO DEPARTMENT OF HEALTH RESIDENTIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH RESIDENTIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (o)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE RESIDENTIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR RESIDENTIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.
AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.

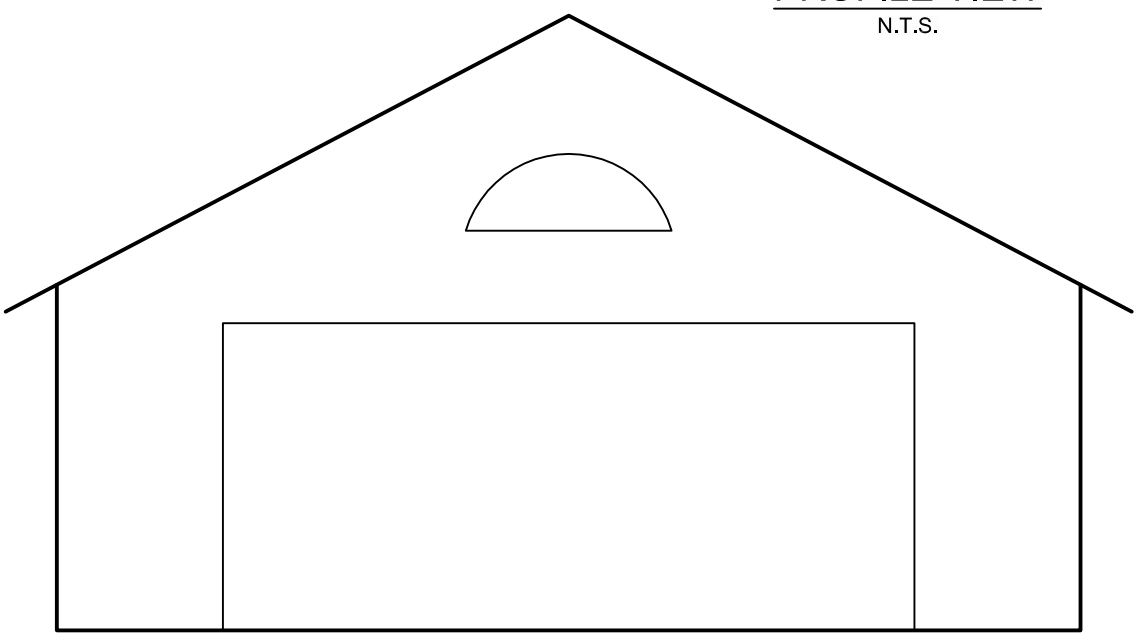


GP09-09	Max ug/m3	2009 %
1,1,1-Trichloroethane	18	-
Benzene	1.9	-
Chlorobenzene	1.9	-
Chloroform (Trichloromethane)	14 (f)	-
cis-1,2-Dichloroethene	1.4	-
Ethylbenzene	3.2	-
Methane, field	-	0/0.1/0
Naphthalene	3.8 (fg)	-
Tetrachloroethene	120 (fg)	-
Toluene	12	-
Trichloroethene	2000 (fg)	-
Xylenes (total)	19	-

Parcel 3253- Bldg 2	Jan 2012	Jul 2012
	%	%
Methane, field	0.0/0.0	0/0

Parcel 3253- Bldg 1- Outdoor Air	Jul 2012	Aug 2012
	%	%
Methane	0.21 U	-
Methane, field	0	0

PROFILE VIEW
N.T.S.



Building Characteristics:
Single-story, 2-car garage constructed early 1990s. 1,128 sq. ft. slab-on-grade, vinyl-sided, building with poured concrete floor composed of six separate poured sections with unsealed joints. Unsealed, poured concrete four inch-high foundation walls in good condition. Average air tightness; weather seals in good condition. No HVAC systems present. Exterior openings - 2 windows, overhead and personnel doors. Grass and concrete exterior ground cover.
No regular occupancy - storage only

figure 2.27

PARCEL 3253 - BUILDING 2
2233 FRONT EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA007 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- VAS01 ▲ VAS SAMPLING LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION

0 20 60ft

Parcel 5223- Bldg 1- IA_A	Sep 2012
	ug/m3
Methane (%)	0.20 U
Methane, field (%)	0/0

- SAMPLE ID (PARCEL - BUILDING)
- SAMPLE DATE
- SAMPLE UNIT
- CONCENTRATION VALUE
- COMPOUND

1.8/1.8 RESULT/DUPLICATE RESULT

U NOT DETECTED

EXCEEDANCES

Max MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	3	4	6
1,2-Dibromoethane (Ethylene dibromide)	0.20	39	2.0	390	
Methane (%)	0.5	0.5	0.5	0.5	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.5
Tetrachloroethene	470	180	4700	1800	1700
Total Risk SN	1E-5		1E-5		

SCREENING LEVELS:

1. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET ELCR (a,j)
2. USEPA INDUSTRIAL IASL FOR MITIGATION AND SVSL FOR FURTHER INVESTIGATION TARGET HI (b,k)
3. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,l)
4. USEPA INDUSTRIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,m)
5. OHIO DEPARTMENT OF HEALTH INDUSTRIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH INDUSTRIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (n)

NOTES:

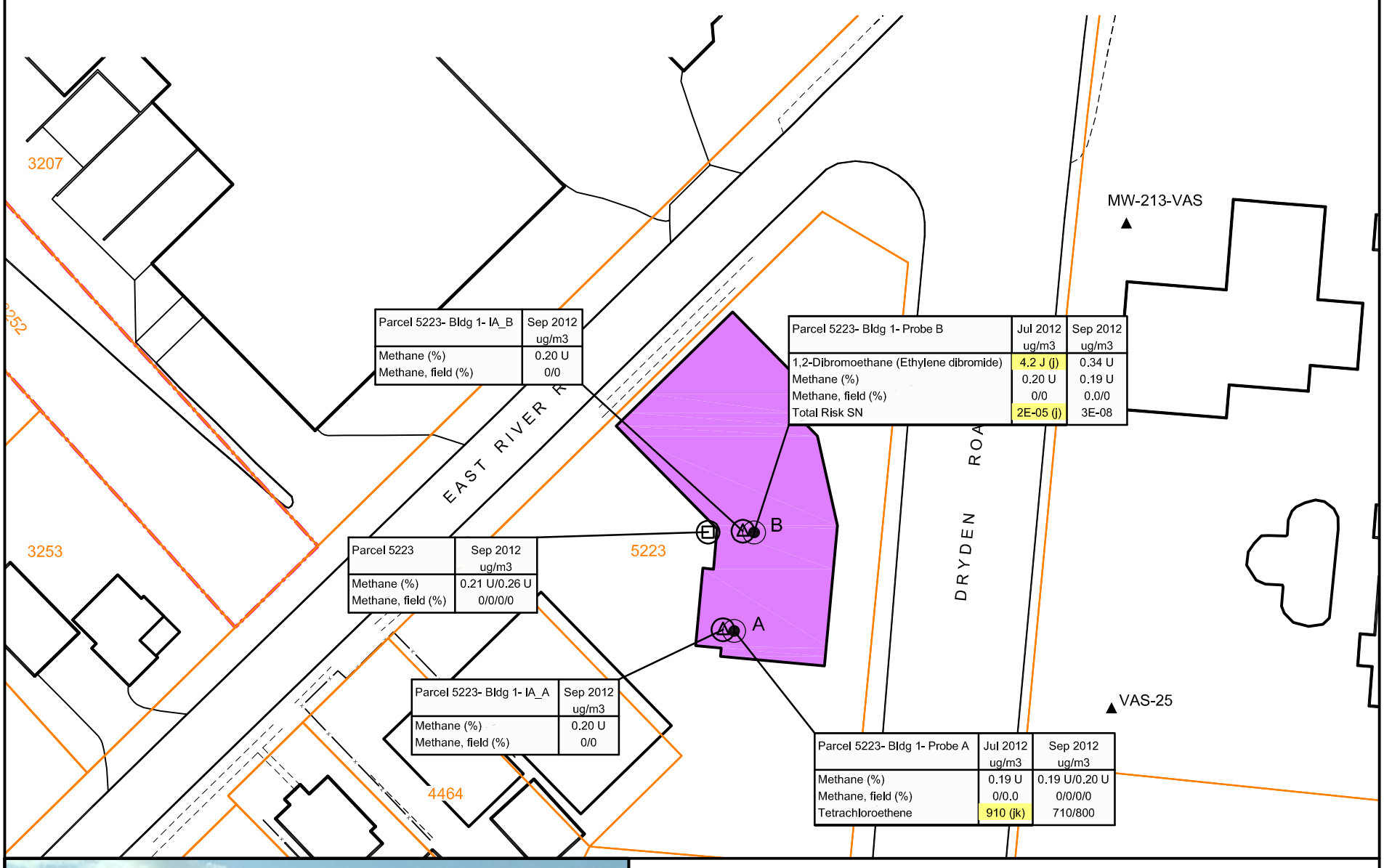
METHANE CONCENTRATION SHOWN IN UNITS OF %.

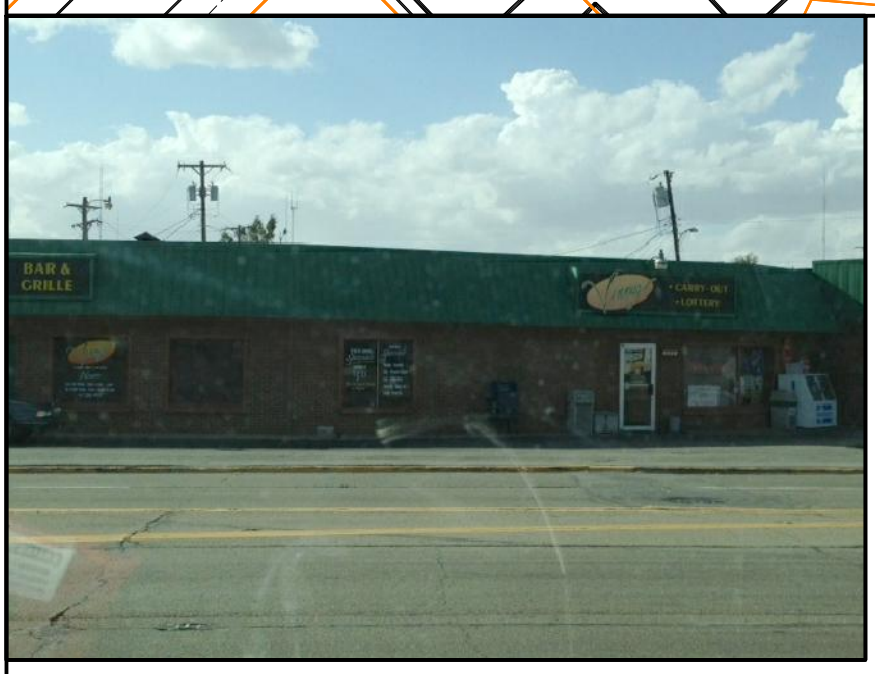
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT

THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.

THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.

AN RSL IS NOT AVAILABLE FOR cis-1,2-DICHLOROETHENE; THE RSL FOR trans-1,2-DICHLOROETHENE WAS CONSIDERED AN EVALUATION SURROGATE FOR cis-1,2-DICHLOROETHENE.





PROFILE VIEW

N.T.S.

Building Characteristics:
Single-story commercial building. 8,340 sq. ft. building with...Building is insulated, not air tight. Heating provided by natural gas furnace. Central A/C present. Linoleum tile, disinfectants, caulking, degreasers, pesticides and spray insecticides, are stored in the building.

figure 2.28

PARCEL 5223 - BUILDING 1
2229 DRYDEN ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

38443-61(017)GN-WA039 DEC 4/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- INDOOR AIR SAMPLE LOCATION
- NV — NO VALUE

0 20 50ft

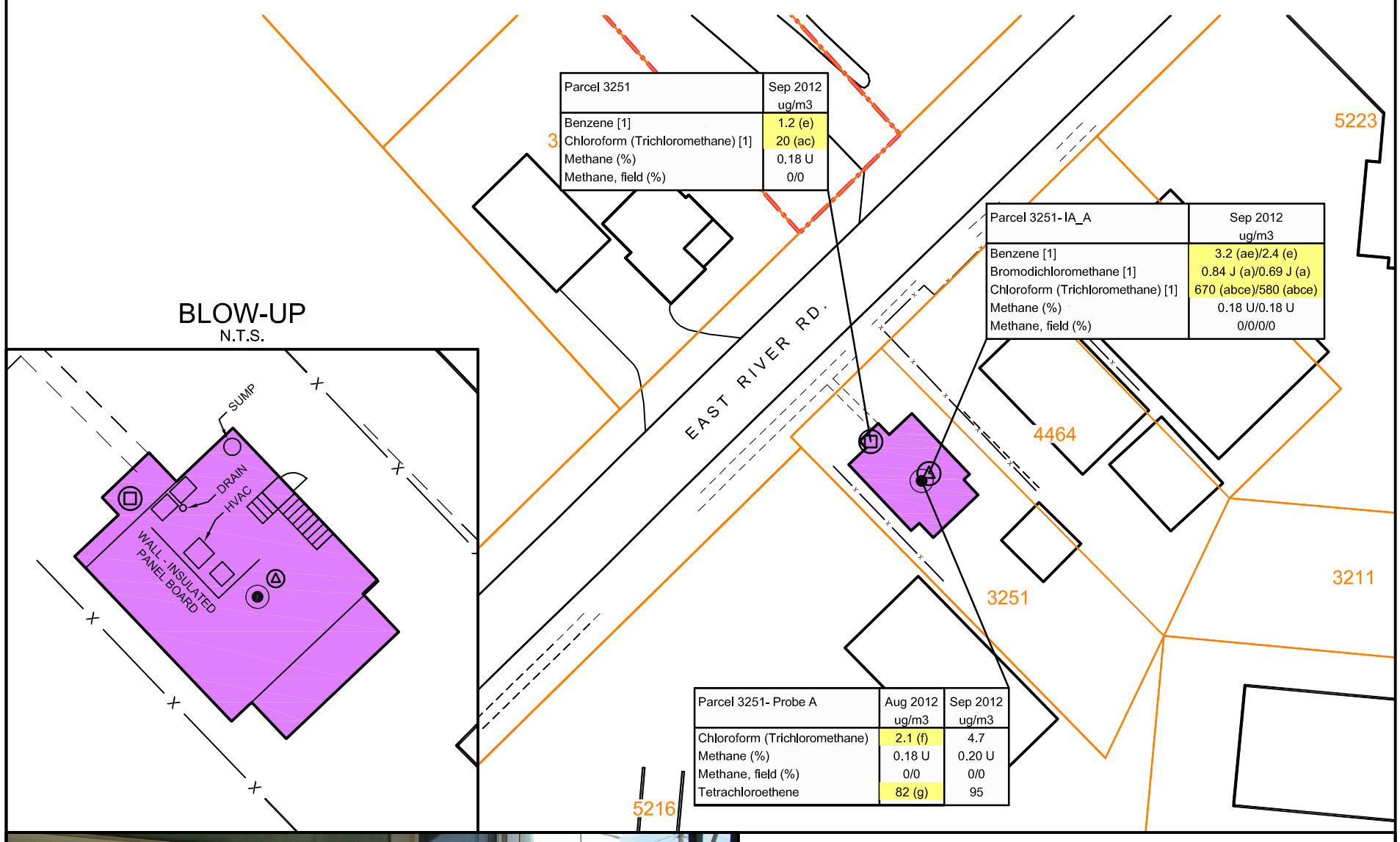
CHEMICAL NAME	1	2	3	4	5	6
Benzene	3.1	31	31	310	1	10
Bromodichloromethane	0.66		6.6			
Chloroform (Trichloromethane)	1.1	100	11	1000	100	1000
Methane (%)	0.5	0.5	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.5	0.5	0.05	0.5
Tetrachloroethene	94	42	940	420	40	400

SCREENING LEVELS:
1. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION TARGET ELCR (a, f)
2. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION AND TARGET HI (b, g)
3. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,h)
4. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,i)
5. OHIO DEPARTMENT OF HEALTH RESIDENTIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH RESIDENTIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (o)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE RESIDENTIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR RESIDENTIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.

GP09-09	9/15/2009
	ug/m3
Tetrachloroethene	2000 (B)

- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CRITERIA
- CONCENTRATION VALUE
- COMPOUND
- EXCEEDANCES
- [1] — INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE
- 1.8/1.8 — RESULT/DUPLICATE RESULT
- U — NOT DETECTED



PROFILE VIEW
N.T.S.

Building Characteristics:
Two-story, residential building. 760 sq. ft. building with unfinished basement. Building is constructed of poured concrete, with siding. Basement floor contains sump and small drain. Building is insulated, with average air tightness. Heating provided by forced air natural gas furnace, and kerosene space heaters, Central A/C and fireplace present. Exterior openings - windows. Latex caulk, linoleum tile, latex paint, cleaners, degreasers, disinfectants, aerosol spray paints, and furniture polish are stored in the building. Painting of first floor and building exterior occurred within past year. Building occupants smoke. Smoke and food odors observed.

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

figure 2.29
PARCEL 3251 - BUILDING 1
2232 EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA038 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- GP06-09 — DEEP LANDFILL GAS PROBE
- MW-214 — MONITORING WELL LOCATION
- VAS-23 — VAS SAMPLING LOCATION
- INDOOR AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION

GP09-09	9/15/2009
	ug/m3
Tetrachloroethene	2000 (B)

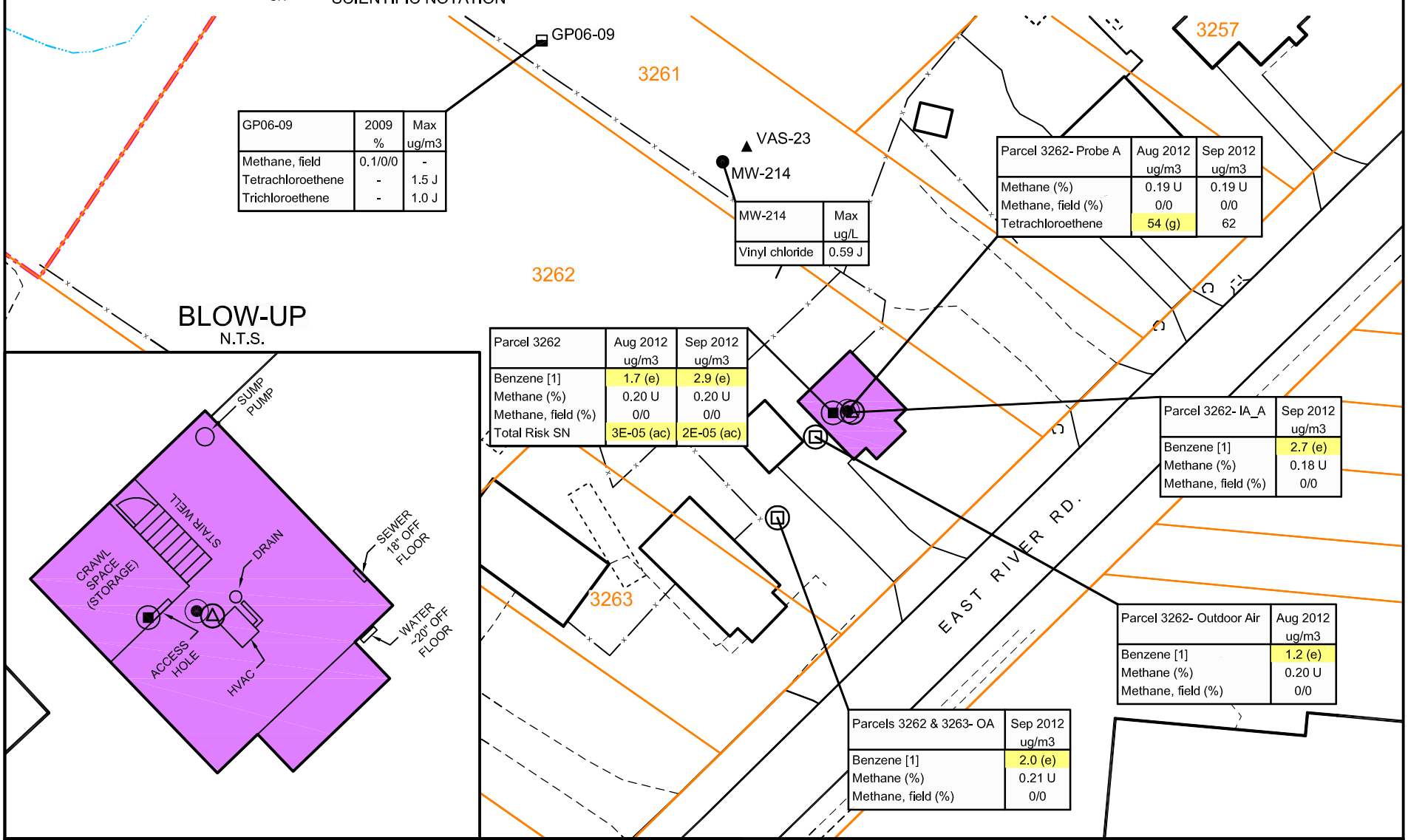
- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CRITERIA
- CONCENTRATION VALUE
- COMPOUND
- EXCEEDANCES
- [1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE
- 1.8/1.8 RESULT/DUPLICATE RESULT
- J ESTIMATED
- U NOT DETECTED
- SN SCIENTIFIC NOTATION

0 20 50ft

CHEMICAL NAME	1	2	5	6
Benzene	3.1	31	1	10
Methane (%)	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.05	0.5
Tetrachloroethene	94	42	40	400
Trichloroethene	4.3	2.1	2	20
Total Risk SN	1E-5			

SCREENING LEVELS:
1. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION TARGET ELCR (a, f)
2. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION AND TARGET HI (b, g)
3. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,h)
4. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,i)
5. OHIO DEPARTMENT OF HEALTH RESIDENTIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH RESIDENTIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (o)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE RESIDENTIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR RESIDENTIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



GP06-09	2009 %	Max ug/m3
Methane, field	0.1/0/0	-
Tetrachloroethene	-	1.5 J
Trichloroethene	-	1.0 J

MW-214	Max ug/L
Vinyl chloride	0.59 J

Parcel 3262- Probe A	Aug 2012 ug/m3	Sep 2012 ug/m3
Methane (%)	0.19 U	0.19 U
Methane, field (%)	0/0	0/0
Tetrachloroethene	54 (g)	62

Parcel 3262	Aug 2012 ug/m3	Sep 2012 ug/m3
Benzene [1]	1.7 (e)	2.9 (e)
Methane (%)	0.20 U	0.20 U
Methane, field (%)	0/0	0/0
Total Risk SN	3E-05 (ac)	2E-05 (ac)

Parcel 3262- IA_A	Sep 2012 ug/m3
Benzene [1]	2.7 (e)
Methane (%)	0.18 U
Methane, field (%)	0/0

Parcel 3262- Outdoor Air	Aug 2012 ug/m3
Benzene [1]	1.2 (e)
Methane (%)	0.20 U
Methane, field (%)	0/0

Parcels 3262 & 3263- OA	Sep 2012 ug/m3
Benzene [1]	2.0 (e)
Methane (%)	0.21 U
Methane, field (%)	0/0

PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story, residential building. 625 sq. ft. building with unfinished basement and crawl space, constructed in the early 1950s of poured concrete, with an open sump and some cracks. Visible evidence of leakage through basement walls or floor. Building is insulated, not air tight. Exterior openings - utility pipe penetrations, wall openings. Air conditioning is provided by window units in the main floor front room. Animal and musty odors were observed. Latex paint, aerosol paints, degreasers, caulking, and insecticides are stored in the building.

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

figure 2.30
PARCEL 3262 - BUILDING 1
2373 EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA036 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- INDOOR AIR SAMPLE LOCATION
- SUB SLAB SOIL VAPOR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV — NO VALUE

0 20 50ft

Parcels 3262 & 3263- OA	Sep 2012
	ug/m3
Benzene [1]	2.0 (e)
Methane (%)	0.21 U
Methane, field (%)	0/0

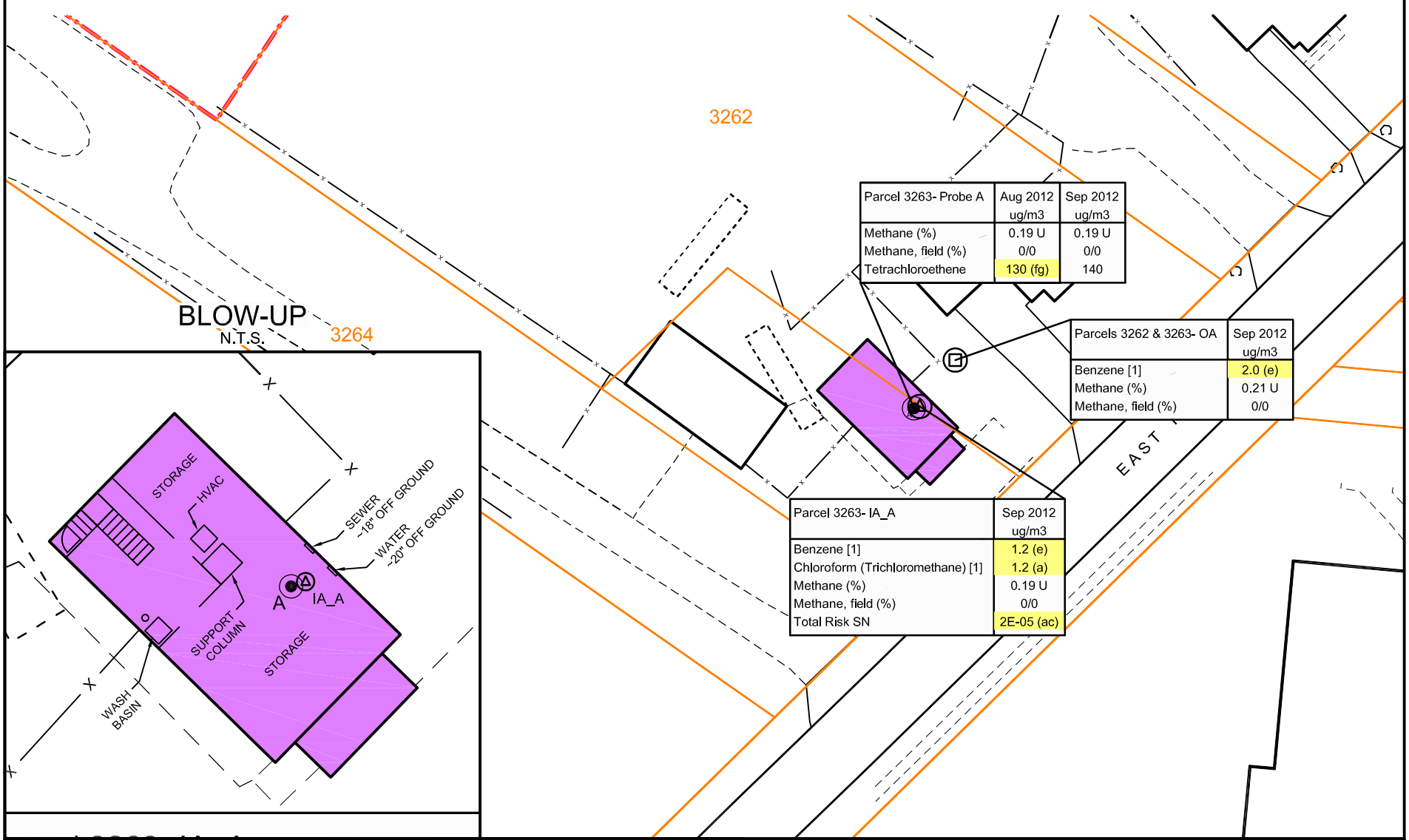
SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CRITERIA
CONCENTRATION VALUE
COMPOUND

- EXCEEDANCES
- [1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION, BASED ON MULTIPLE LINES OF EVIDENCE
- 1.8/1.8 — RESULT/DUPLICATE RESULT
- J — ESTIMATED
- U — NOT DETECTED
- SN — SCIENTIFIC NOTATION

CHEMICAL NAME	1	2	5	6
Benzene	3.1	31	1	10
Chloroform (Trichloromethane)	1.1	100	100	1000
Methane (%)	0.5	0.5	0.05	0.5
Methane, field (%)	0.5	0.5	0.05	0.5
Tetrachloroethene	94	42	40	400
Total Risk SN	1E-5			

SCREENING LEVELS:
1. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION TARGET ELCR (a, f)
2. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION AND TARGET HI (b, g)
3. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,h)
4. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,i)
5. OHIO DEPARTMENT OF HEALTH RESIDENTIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH RESIDENTIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (o)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE RESIDENTIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR RESIDENTIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story, residential building. 590 sq. ft. building with unfinished basement. Building is constructed of poured concrete, foundation walls in poor condition. Building is insulated, not air tight. Visible evidence of leakage through basement walls or floor. Heating provided by natural gas furnace. Carpet and linoleum were installed within last six months on first floor, painting in basement and first floor occurred within past year. New carpet, mastic, caulk, etc. odors were observed. Latex caulk, linoleum tile, latex paint, cleaners, degreasers, disinfectants, solvents, and caulking are stored in the building. Exterior openings - utility pipe penetrations, wall openings, and windows.

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

figure 2.31
PARCEL 3263 - BUILDING 1
2391 EAST RIVER ROAD
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA037 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOR BUILDING LOCATION
- MW-210 — MONITORING WELL LOCATION
- GP11-09 — DEEP LANDFILL GAS PROBE
- VAS-21 — VAS SAMPLING LOCATION
- CRAWL SPACE AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV — NO VALUE

0 20 60ft

GP09-09	9/15/2009
	ug/m3
Tetrachloroethene	2000 (B)

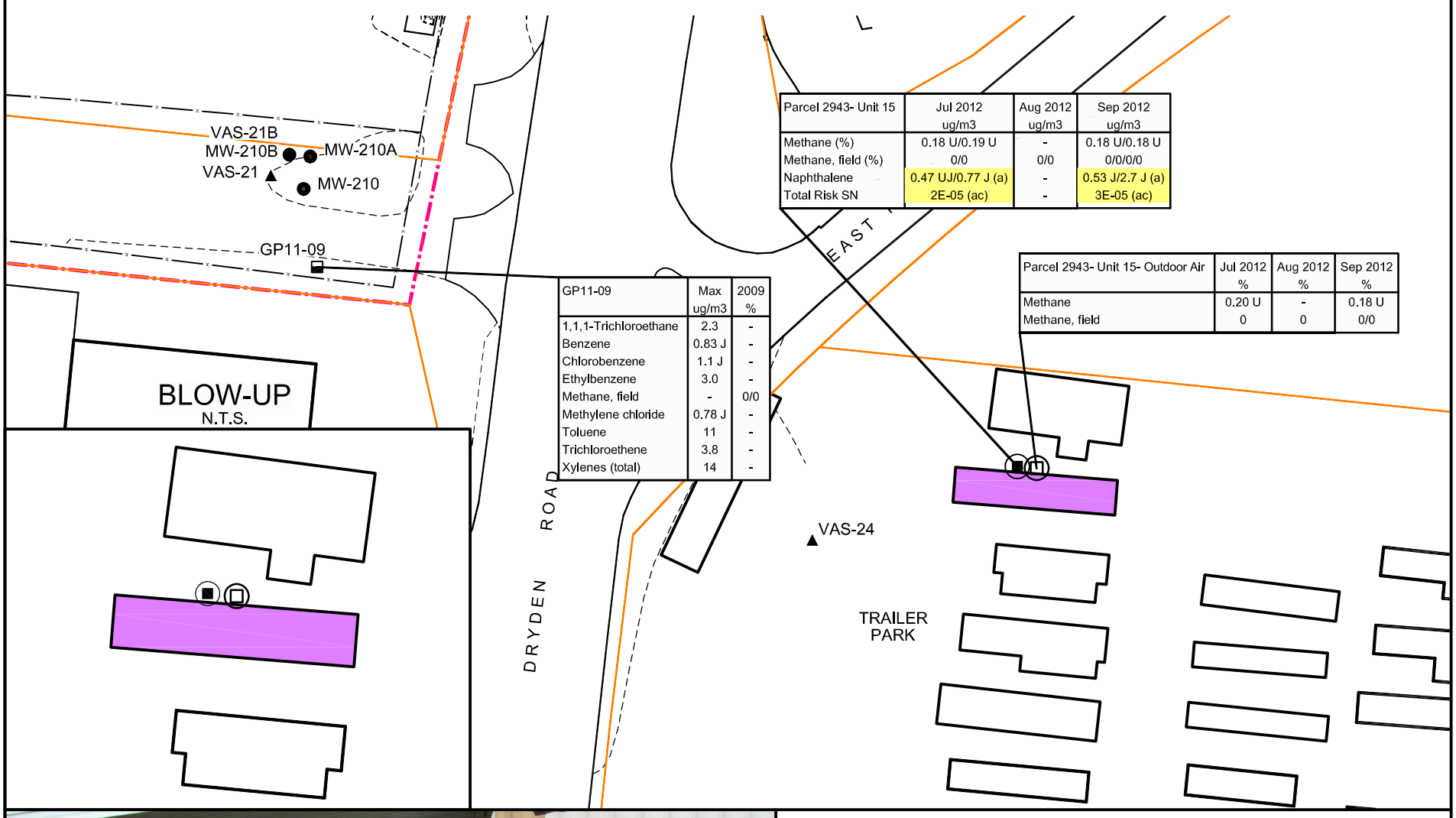
- SAMPLE ID
- SAMPLE DATE
- SAMPLE UNIT
- CRITERIA
- CONCENTRATION VALUE
- COMPOUND
- EXCEEDANCES
- Max — MAXIMUM DETECTED CONCENTRATION OF SELECTED COMPOUNDS IN UPPER AQUIFER ZONE SOIL GAS, SOIL, AND GROUNDWATER LOCATIONS SAMPLED FROM 2008 TO 2012.

CHEMICAL NAME	1	2	5
Benzene	3.1	31	1
Chlorobenzene		52	
Ethylbenzene	9.7	1000	300
Methane (%)	0.05	0.05	0.05
Methane, field (%)	0.05	0.05	0.05
Naphthalene	0.72	3.1	3.67
Toluene		5200	
Trichloroethene	4.3	2.1	2
Total HI		1	
Total Risk SN	1E-5		
Xylenes (total)		100	

SCREENING LEVELS:
1. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION TARGET ELCR (a, f)
2. USEPA RESIDENTIAL SVSL FOR FURTHER INVESTIGATION AND IASL FOR MITIGATION AND TARGET HI (b, g)
3. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET ELCR (c,h)
4. USEPA RESIDENTIAL SVSL FOR MONITORING AND IASL FOR RAPID RESPONSE TARGET HI (d,i)
5. OHIO DEPARTMENT OF HEALTH RESIDENTIAL INDOOR AIR SCREENING LEVEL (e)
6. OHIO DEPARTMENT OF HEALTH RESIDENTIAL SUB-SLAB SOIL VAPOR SCREENING LEVEL (o)

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE RESIDENTIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR RESIDENTIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.

- 1.8/1.8 — RESULT/DUPLICATE RESULT
- J — ESTIMATED
- U — NOT DETECTED
- SN — SCIENTIFIC NOTATION



Parcel 2943- Unit 15	Jul 2012 ug/m3	Aug 2012 ug/m3	Sep 2012 ug/m3
Methane (%)	0.18 U/0.19 U	-	0.18 U/0.18 U
Methane, field (%)	0/0	0/0	0/0/0/0
Naphthalene	0.47 UJ/0.77 J (a)	-	0.53 J/2.7 J (a)
Total Risk SN	2E-05 (ac)	-	3E-05 (ac)

GP11-09	Max ug/m3	2009 %
1,1,1-Trichloroethane	2.3	-
Benzene	0.83 J	-
Chlorobenzene	1.1 J	-
Ethylbenzene	3.0	-
Methane, field	-	0/0
Methylene chloride	0.78 J	-
Toluene	11	-
Trichloroethene	3.8	-
Xylenes (total)	14	-

Parcel 2943- Unit 15- Outdoor Air	Jul 2012 %	Aug 2012 %	Sep 2012 %
Methane	0.20 U	-	0.18 U
Methane, field	0	0	0/0

PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story residential trailer, with crawl space enclosed by skirting, over a concrete pad. Insulated trailer. Central A/C present. Exterior openings - vents, utility pipe penetrations, windows, doors.

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

figure 2.32

PARCEL 2943 - UNIT 15
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-61(017)GN-WA040 DEC 03/2012

LEGEND

- APPROXIMATE SITE BOUNDARY
- EDGE OF WATER
- PARCEL BOUNDARY
- SUB SLAB SOIL VAPOUR BUILDING LOCATION
- CRAWL SPACE AIR SAMPLE LOCATION
- OUTDOOR AIR SAMPLE LOCATION
- NV — NO VALUE

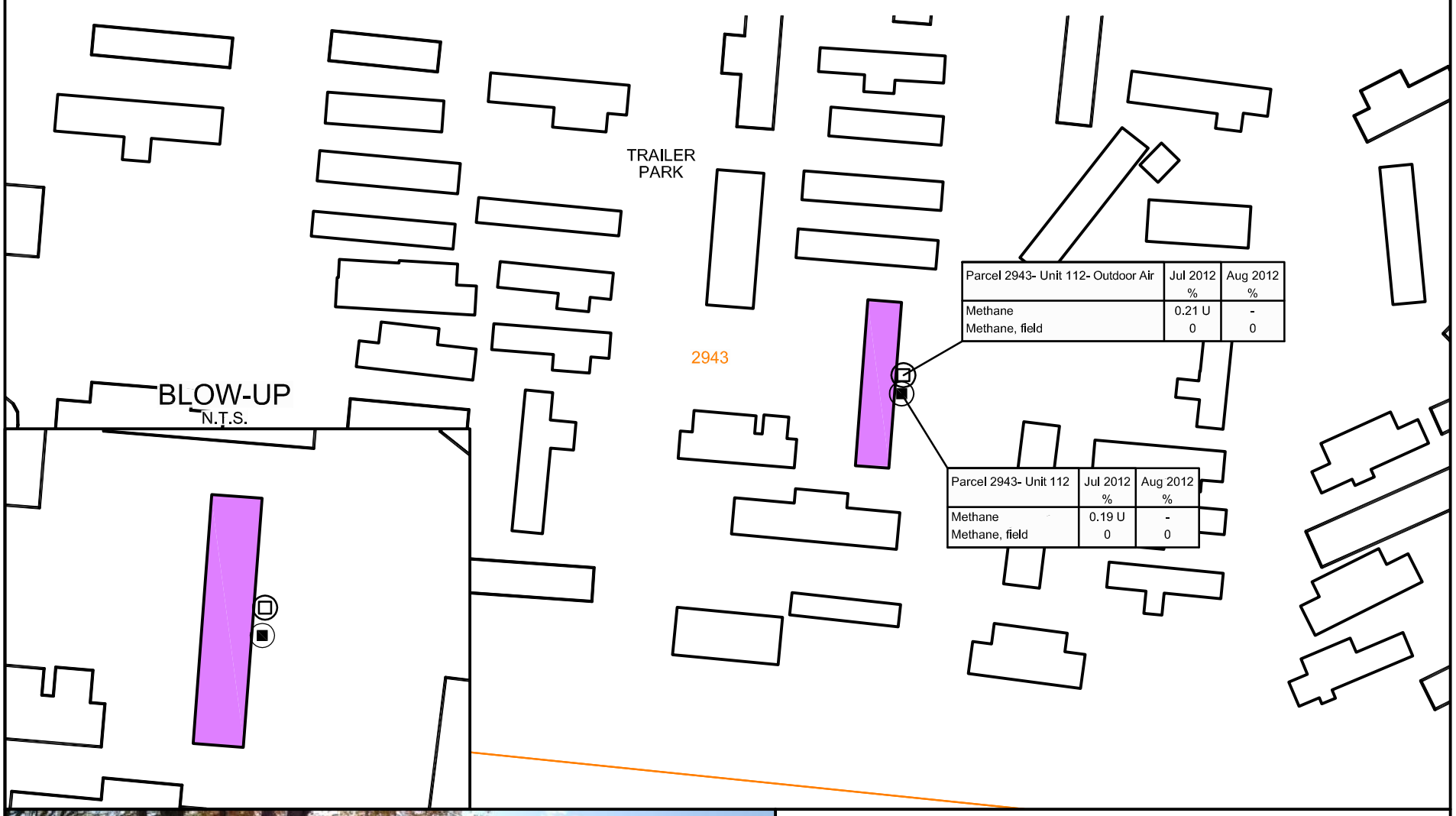
0 20 60ft

GP09-09	9/15/2009
	ug/m3
Tetrachloroethene	2000 (B)

SAMPLE ID
SAMPLE DATE
SAMPLE UNIT
CRITERIA
CONCENTRATION VALUE
COMPOUND
U — NOT DETECTED

	Residential IASL for Mitigation (%) ELCR = 10^{-5}	HI = 1	ODH Screening Level (%) Residential IA
CHEMICAL NAME	a	b	e
Methane (%)	0.05	0.05	0.05
Methane, field (%)	0.05	0.05	0.05

NOTES:
METHANE CONCENTRATION SHOWN IN UNITS OF %.
LEL - LOWER EXPLOSIVE LIMIT; UEL - UPPER EXPLOSIVE LIMIT
THE INDUSTRIAL SVSLs ARE BASED ON THE USEPA 2012 REGIONAL SCREENING LEVELS (MAY 2012) FOR INDUSTRIAL AIR.
THE SVSLs WERE DRIVED FROM THE USEPA (MAY 2012) RSLs BY APPLYING THE USEPA REGION 5 VAPOR INTRUSION GUIDEBOOK (OCT. 2010) DEFAULT SOIL-VAPOR-TO-INDOOR-AIR ATTENUATION FACTOR OF 0.1.



PROFILE VIEW
N.T.S.

Building Characteristics:
Single-story residential trailer, with crawl space enclosed by skirting, over a concrete pad. Insulated trailer. Central A/C present. Exterior openings - vents, utility pipe penetrations, windows, doors.

figure 2.33

PARCEL 2943 - UNIT 112
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

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

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TABLES

TABLE 1.1

SOIL VAPOR VOC ANALYTICAL RESULTS COMPARED TO INDUSTRIAL SOIL VAPOR SCREENING LEVELS
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:			*GP01-09*	*GP02-09*	*GP02-09*	*GP03-09*	*GP04-09*	*GP05-09*	*GP06-09*	*GP07-09*	*GP08-09*	*GP09-09*	*GP10-09*	*GP11-09*
Sample ID:			*A-38443-092909-NZ-022*	*A-038443-091509-NH-011*	*A-038443-091509-NH-012*	*A-038443-091509-GL-013*	*A-038443-091609-NH-015*	*A-038443-091509-GL-014*	*A-038443-091609-NH-019*	*A-038443-091609-GL-020*	*A-038443-091709-NH-021*	*A-038443-091509-NH-009*	*A-038443-091509-GL-010*	*A-038443-091609-NH-017*
Sample Date:			*9/29/2009*	*9/15/2009*	*9/15/2009*	*9/15/2009*	*9/16/2009*	*9/15/2009*	*9/16/2009*	*9/16/2009*	*9/17/2009*	*9/15/2009*	*9/15/2009*	*9/16/2009*
	INDUSTRIAL SVSL				*Duplicate*									
Parameter	*ELCR*	*HI*												
	a	*b*												
Volatile Organic Compounds														
1,1,1-Trichloroethane	-	220000	110 U	11 U	11 UJ	73	1.9	10	1.6 U	55 U	0.93 J	18	14	2.3
1,1,2,2-Tetrachloroethane	2.1	-	140 U	14 U	14 UJ	2.1 U	2.1 U	2.1 U	2.1 U	70 U	2.1 U	2.1 U	2.1 U	2.1 U
1,1,2-Trichloroethane	7.7	8.8	110 U	11 U	11 UJ	1.6 U	1.6 U	1.6 U	1.6 U	55 U	1.6 U	1.6 U	1.6 U	1.6 U
1,1-Dichloroethane	77	-	80 U	8.1 U	8.1 UJ	10	56	1.2 U	1.2 U	41 U	1.2 U	1.2 U	2.1	1.2 U
1,1-Dichloroethene	-	8800	78 U	7.9 U	7.9 UJ	0.79 U	1.5	0.79 U	0.79 U	40 U	0.79 U	0.79 U	0.79 U	0.79 U
1,2,4-Trichlorobenzene	-	88	370 U	37 U	37 UJ	5.9 U	5.9 U	5.9 U	5.9 U	190 U	5.9 U	5.9 U	5.9 U	5.9 U
1,2-Dibromo-3-chloropropane (DBCP)	0.02	8.8	190 U	97 UJ	97 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ	490 UJ	9.7 UJ	9.7 UJ	9.7 UJ	9.7 UJ
1,2-Dibromoethane (Ethylene dibromide)	0.20	390	150 U	15 U	15 UJ	3.1 U	3.1 U	3.1 U	3.1 U	78 U	3.1 U	3.1 U	3.1 U	3.1 U
1,2-Dichlorobenzene	-	8800	120 U	12 U	12 UJ	2.4 U	2.4 U	2.4 U	2.4 U	61 U	2.4 U	2.4 U	2.4 U	2.4 U
1,2-Dichloroethane	4.7	310	120 U	12 U	12 UJ	0.81 U	0.81 U	0.81 U	0.81 U	62 U	0.81 U	0.81 U	0.81 U	0.81 U
1,2-Dichloropropane	12	180	140 U	14 U	14 UJ	0.92 U	0.92 U	0.92 U	0.92 U	70 U	0.92 U	0.92 U	0.92 U	0.92 U
1,3-Dichlorobenzene[a]	11	35000	240 U	24 U	24 UJ	2.4 U	10	6.4	2.4 U	120 U	2.0 J	2.4 U	2.4 U	8.8
1,4-Dichlorobenzene	11	35000	240 U	24 U	24 UJ	1.9 J	1.3 J	2.4 U	2.4 U	120 U	2.4 U	2.4 U	2.4 U	2.4 U
2-Butanone (Methyl ethyl ketone) (MEK)	-	220000	290 U	29 U	29 UJ	3.7	4.6	3.0	2.9 U	150 U	1.9 J	1.5 J	3.2	2.3 J
2-Hexanone	-	1300	400 U	41 U	41 UJ	2.0 U	2.0 U	2.0 U	2.0 U	210 U	2.0 U	2.0 U	2.0 U	2.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	-	130000	400 U	41 U	41 UJ	1.6 U	1.6 U	1.6 U	1.6 U	210 U	1.6 U	1.6 U	3.9 J	1.6 U
Acetone	-	1400000	230 U	27 U	41 UJ	24 U	84 U	20 U	7.1 U	120 U	17 UJ	11 U	21 U	18 U
Benzene	16	1300	**860[a]**	**37[a]**	**36 J[a]**	1.3	**110[a]**	0.83 J	0.96 U	49 U	1.8	1.9	1.7	0.83 J
Bromodichloromethane	3.3	-	130 U	13 U	13 UJ	2.0 U	2.0 U	2.0 U	2.0 U	68 U	2.0 U	2.0 U	2.0 U	2.0 U
Bromoform	110	-	200 U	21 U	21 UJ	4.1 U	4.1 U	4.1 U	4.1 U	100 U	4.1 U	4.1 U	4.1 U	4.1 U
Bromomethane (Methyl bromide)	-	220	150 U	8.5 J	16 UJ	1.6 U	1.6 U	1.6 U	1.6 U	79 U	1.6 U	1.6 U	1.6 U	1.6 U
Carbon disulfide	-	31000	310 U	18 J	18 J	20	16	6.7	6.5	160 U	8.4	13	11	9.2
Carbon tetrachloride	20	4400	120 U	13 U	13 UJ	1.9 U	1.9 U	1.9 U	1.9 U	64 U	1.9 U	1.9 U	1.9 U	1.9 U
Chlorobenzene	-	2200	**12000[b]**	9.2 U	9.2 UJ	1.4 U	1.4 U	2.4	1.4 U	47 U	1.4 U	1.9	1.4 U	1.1 J
Chloroethane	-	440000	100 U	4.8 J	4.5 J	1.1 U	12	1.1 U	1.1 U	53 U	1.1 U	1.1 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	5.3	4300	96 U	9.8 U	9.8 UJ	**13[a]**	1.5 U	1.5 U	1.5 U	49 U	1.2 J	**14[a]**	4.5	1.5 U
Chloromethane (Methyl chloride)	-	3900	82 U	8.3 UJ	8.3 UJ	1.5 J	1.7 U	1.6 J	1.7 U	42 UJ	1.7 U	1.5 J	1.2 J	0.99 J
cis-1,2-Dichloroethene[b]	-	2600	52 J	22	17 J	0.66 J	1.1	1.3	0.79 U	40 U	0.79 U	1.4	0.79 U	0.79 U
cis-1,3-Dichloropropene[c]	31	880	90 U	9.1 U	9.1 UJ	1.8 U	1.8 U	1.8 U	1.8 U	46 U	1.8 U	1.8 U	1.8 U	1.8 U
Cyclohexane	-	260000	1300	550	550 J	1.7 U	30	1.7 U	1.7 U	35 U	2.1	1.7 U	1.7 U	1.7 U
Dibromochloromethane	4.5	-	170 U	17 U	17 UJ	3.4 U	3.4 U	3.4 U	3.4 U	86 U	3.4 U	3.4 U	3.4 U	3.4 U
Dichlorodifluoromethane (CFC-12)	-	4400	150 U	1400	1400 J	1.5 J	4.5	120	4.0	75 U	63	2.5	24	3.1
Ethylbenzene	49	44000	**1100[a]**	10	16 J	5.5	**110[a]**	3.5	1.3 U	44 U	4.4	3.2	5.4	3.0
Isopropyl benzene	-	18000	260	9.8 U	9.8 UJ	2.5 U	12	2.5 U	2.5 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl tert butyl ether (MTBE)	470	130000	71 U	7.2 U	7.2 UJ	3.6 U	3.6 U	3.6 U	3.6 U	37 U	3.6 U	3.6 U	1.4 J	3.6 U
Methylene chloride	12000	26000	59 J	6.9 U	6.9 UJ	0.99 J	1.0 U	6.5	1.0 U	19 J	0.55 J	1.0 U	1.0 U	0.78 J
Naphthalene	3.6	130	310 U	31 U	31 UJ	2.2 J	2.6 U	2.6 U	2.6 U	160 U	2.6 U	**3.8[a]**	**7.9[a]**	2.6 U
Styrene	-	44000	84 U	8.5 U	8.5 UJ	1.7 U	1.7 U	1.7 U	1.7 U	43 U	1.7 U	1.7 U	1.7 U	1.7 U
Tetrachloroethene	470	1800	130 U	14 U	14 UJ	**610[a]**	2.7 U	13	1.5 J	69 U	25	120	40	2.7 U
Toluene	-	220000	130	23	18 J	12	680	9.3	1.1 U	27 J	22	12	18	11
trans-1,2-Dichloroethene	-	2600	78 U	7.9 U	7.9 UJ	0.79 U	0.79 U	0.79 U	0.79 U	40 U	0.79 U	0.79 U	0.79 U	0.79 U
trans-1,3-Dichloropropene[d]	31	880	90 U	9.1 U	9.1 UJ	1.8 U	1.8 U	1.8 U	1.8 U	46 UJ	1.8 U	1.8 U	1.8 U	1.8 U
Trichloroethene	30	88	110 U	12	11 UJ	**190[ab]**	4.4	15	1.0 J	54 U	1.6 J	**2000[ab]**	**40[a]**	3.8
Trichlorofluoromethane (CFC-11)	-	31000	110 U	11 U	11 UJ	5.8	2.2 U	5.4	8.8	40 J	74	5.2	5.2	4.4
Trifluorotrichloroethane (Freon 113)	-	1300000	150 U	15 U	15 UJ	3.8 U	3.8 U	3.8 U	3.8 U	78 U	3.8 U	3.8 U	3.8 U	3.8 U
Vinyl chloride	28	4400	**760[a]**	**100[a]**	**100 J[a]**	0.51 U	14 J	0.51 U	0.51 U	52 U	0.51 U	0.51 U	0.51 U	0.51 U
Xylenes (total)	-	4400	160	62	67 J	25	480	19	1.3 U	44 U	13	19	30	14

TABLE 1.1

SOIL VAPOR VOC ANALYTICAL RESULTS COMPARED TO INDUSTRIAL SOIL VAPOR SCREENING LEVELS
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:			*GP13-09*	*GP14-09*	*GP15-09*	*GP16-09*	*GP17-09*	*GP18-09*	*GP19-09*	*GP20-09*	*GP20-09*	*GP20-09*	*GP21-09*
Sample ID:			*A-038443-090409-NZ-001*	*A-038443-091109-NZ-002*	*A-038443-091109-NH-003*	*A-038443-091409-GL-008*	*A-038443-091109-NZ-004*	*A-038443-091109-NH-005*	*A-038443-091409-GL-006*	*A-038443-091409-NH-007*	*A-38443-012910-NZ-023*	*A-38443-012910-NZ-024*	*A-038443-091609-GL-016*
Sample Date:			*9/4/2009*	*9/11/2009*	*9/11/2009*	*9/14/2009*	*9/11/2009*	*9/11/2009*	*9/14/2009*	*9/14/2009*	*1/29/2010*	*1/29/2010*	*9/16/2009*
	INDUSTRIAL SVSL											*Duplicate*	
Parameter	*ELCR*	*HI*											
	a	*b*											
Volatile Organic Compounds													
1,1,1-Trichloroethane	-	220000	33 U	7.9 U	22 U	11 U	22	550 U	9.9 U	570 U	220 U	220 U	1.6 U
1,1,2,2-Tetrachloroethane	2.1	-	41 U	9.9 U	28 U	14 U	6.2 U	700 U	12 U	720 U	280 U	280 U	2.1 U
1,1,2-Trichloroethane	7.7	8.8	33 U	7.9 U	22 U	11 U	4.9 U	550 U	9.9 U	570 U	220 U	220 U	1.6 U
1,1-Dichloroethane	77	-	2900[a]	8.2	7200[a]	66	340[a]	400 J[a]	7.4 U	420 U	160 U	160 U	6.2
1,1-Dichloroethene	-	8800	16 U	3.8 U	420	7.9 U	12	400 U	39	420 U	160 U	160 U	1.1
1,2,4-Trichlorobenzene	-	88	120 U	29 U	75 U	37 U	18 U	1900 U	34 U	1900 U	760 U	750 U	5.9 U
1,2-Dibromo-3-chloropropane (DBCP)	0.02	8.8	190 U	46 U	190 U	97 UJ	29 U	4900 UJ	88 UJ	5100 UJ	2000 U	2000 U	9.7 UJ
1,2-Dibromoethane (Ethylene dibromide)	0.20	390	62 U	15 U	31 U	15 U	9.2 U	780 U	14 U	810 U	310 U	310 U	3.1 U
1,2-Dichlorobenzene	-	8800	48 U	12 U	24 U	12 U	7.2 U	610 U	11 U	630 U	240 U	240 U	2.4 U
1,2-Dichloroethane	4.7	310	16 U	3.9 U	24 U	12 U	2.4 U	610 U	11 U	640 U	250 U	250 U	0.81 U
1,2-Dichloropropane	12	180	19 U	4.4 U	28 U	14 U	2.8 U	700 U	13 U	730 U	280 U	280 U	0.92 U
1,3-Dichlorobenzene[a]	11	35000	48 U	12 U	48 U	9.7 J	7.2 U	1200 U	22 U	1300 U	490 U	490 U	4.0
1,4-Dichlorobenzene	11	35000	48 U	12 U	48 U	24 U	7.2 U	1200 U	22 U	1300 U	490 U	490 U	2.4 U
2-Butanone (Methyl ethyl ketone) (MEK)	-	220000	59 U	14 U	59 U	29 U	5.9 J	1500 U	27 U	1500 U	600 U	600 U	1.9 J
2-Hexanone	-	1300	41 U	9.8 U	82 U	41 U	6.1 U	2100 U	37 U	2100 U	830 U	830 U	2.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	-	130000	33 U	7.9 U	82 U	74	4.9 U	2100 U	37 U	2100 U	830 U	830 U	1.6 U
Acetone	-	1400000	38 U	11 U	48 U	24 U	32 U	1200 U	22 U	1200 U	480 U	480 U	1.9 U
Benzene	16	1300	19 U	4.6 U	250[a]	18[a]	44[a]	14000[ab]	16	500 U	200 U	190 U	34[a]
Bromodichloromethane	3.3	-	40 U	9.7 U	27 U	13 U	6.0 U	680 U	12 U	700 U	270 U	270 U	2.0 U
Bromoform	110	-	83 U	20 U	42 U	21 U	12 U	1000 U	19 U	1100 U	420 U	420 U	4.1 U
Bromomethane (Methyl bromide)	-	220	31 U	7.5 U	31 U	16 U	4.6 U	790 U	8.2 J	810 U	320 U	310 U	1.6 U
Carbon disulfide	-	31000	63 U	15	63 U	8.2 J	14	1600 U	10 J	1600 U	630 U	630 U	10
Carbon tetrachloride	20	4400	38 U	9.1 U	25 U	13 U	5.6 U	640 U	11 U	660 U	260 UJ	250 UJ	1.9 U
Chlorobenzene	-	2200	28 U	6.6 U	18 U	9.2 U	2.4 J	470 U	8.4 U	480 U	190 U	190 U	1.4 U
Chloroethane	-	440000	410	5.1 U	290	6.4 J	3.2 U	1400	8.1 J	550 U	210 U	210 U	1.7
Chloroform (Trichloromethane)	5.3	4300	29 U	80[a]	20 U	150[a]	4.4 U	490 U	8.9 U	510 U	200 U	200 U	1.5 U
Chloromethane (Methyl chloride)	-	3900	33 U	7.9 U	17 U	8.3 UJ	4.9 U	420 UJ	7.5 UJ	430 UJ	170 U	170 U	1.7 U
cis-1,2-Dichloroethene[b]	-	2600	16 U	8.6	4300[b]	4.4 J	20	340 J	1600	16000[b]	4500[b]	4600[b]	30
cis-1,3-Dichloropropene[c]	31	880	36 U	8.7 U	18 U	9.1 U	5.4 U	460 U	8.3 U	480 U	180 U	180 U	1.8 U
Cyclohexane	-	260000	390	8.3 U	14 U	6.9 U	42	50000	330	360 U	140 U	140 U	38
Dibromochloromethane	4.5	-	68 U	16 U	34 U	17 U	10 U	860 U	15 U	890 U	350 U	350 U	3.4 U
Dichlorodifluoromethane (CFC-12)	-	4400	43	4.8 J	23 J	35	5.9 U	750 U	13 U	780 U	300 U	300 U	1.2 J
Ethylbenzene	49	44000	26 U	6.3 U	17 U	6.6 J	7.0	48000[ab]	9.1	460 U	180 U	180 U	7.6
Isopropyl benzene	-	18000	49 U	12 U	20 U	9.8 U	7.4 U	4100	8.9 U	520 U	200 U	200 U	2.5 U
Methyl tert butyl ether (MTBE)	470	130000	72 U	17 U	38	5.5 J	11 U	370 U	6.6 U	380 U	150 U	150 U	3.6 U
Methylene chloride	12000	26000	21 U	5.0 U	14 U	6.9 U	3.1 U	350 U	6.3 U	360 U	140 U	140 U	1.0 U
Naphthalene	3.6	130	53 U	13 U	63 U	31 U	5.6 J[a]	980 J[ab]	29 U	1600 U	640 U	640 U	1.8 J
Styrene	-	44000	34 U	8.2 U	17 U	8.5 U	5.1 U	430 U	7.7 U	450 U	170 U	170 U	1.7 U
Tetrachloroethene	470	1800	54 U	280	27 U	14 U	48	690 U	12 U	710 U	280 U	270 U	4.8
Toluene	-	220000	13 J	5.7	42	12	23	2800	13	400 U	150 U	150 U	11
trans-1,2-Dichloroethene	-	2600	16 U	3.8 U	210	7.9 U	1.3 J	400 U	7.2 U	310 J	160 U	160 U	3.4
trans-1,3-Dichloropropene[d]	31	880	36 U	8.7 U	18 U	9.1 UJ	5.4 U	460 U	8.3 U	480 U	180 U	180 U	1.8 U
Trichloroethene	30	88	43 U	630[ab]	790[ab]	11 U	64[a]	540 U	360[ab]	56000[ab]	16000[ab]	16000[ab]	5.5
Trichlorofluoromethane (CFC-11)	-	31000	45 U	11 U	23 U	11 U	6.7 U	570 U	10 U	590 U	230 U	230 U	2.2 U
Trifluorotrichloroethane (Freon 113)	-	1300000	77 U	18 U	31 U	15 U	11 U	780 U	14 U	800 U	310 U	310 U	3.8 U
Vinyl chloride	28	4400	6800[ab]	2.5 U	14000[ab]	490[a]	370[a]	4800[ab]	3000[a]	540 U	210 U	210 U	4.7 J
Xylenes (total)	-	4400	26 U	7.7	18	17	35	47000[b]	29	460 U	180 U	180 U	27

Notes:

All concentrations are expressed in units of micrograms per cubic meter ($\mu g/m^3$) unless otherwise noted.
ELCR - Estimated Lifetime Cancer Risk
HI - Hazard Index
J - The parameter was positively identified; however, the associated parameter concentration is estimated.
SVSL = Soil Vapor Screening Level
U - The parameter was not detected. The associated numerical value is the sample quantitation limit.
UJ - The parameter was not detected. The associate numerical value is the estimated sample quantitation limit.

The industrial SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.
The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

[ ] Concentration was greater than applicable criteria.

TABLE 1.2

SOIL VAPOR VOC ANALYTICAL RESULTS COMPARED TO RESIDENTIAL SOIL VAPOR SCREENING LEVELS
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:			*GP06-09*	*GP07-09*	*GP08-09*	*GP09-09*	*GP10-09*
Sample ID:			*A-038443-091609-NH-019*	*A-038443-091609-GL-020*	*A-038443-091709-NH-021*	*A-038443-091509-NH-009*	*A-038443-091509-GL-010*
Sample Date:			*9/16/2009*	*9/16/2009*	*9/17/2009*	*9/15/2009*	*9/15/2009*
Parameter	*RESIDENTIAL SVSL ELCR a*	*HI b*					
Volatile Organic Compounds							
1,1,1-Trichloroethane	-	52000	1.6 U	55 U	0.93 J	18	14
1,1,2,2-Tetrachloroethane	0.42	-	2.1 U	70 U	2.1 U	2.1 U	2.1 U
1,1,2-Trichloroethane	1.5	2.1	1.6 U	55 U	1.6 U	1.6 U	1.6 U
1,1-Dichloroethane	15	-	1.2 U	41 U	1.2 U	1.2 U	2.1
1,1-Dichloroethene	-	2100	0.79 U	40 U	0.79 U	0.79 U	0.79 U
1,2,4-Trichlorobenzene	-	21	5.9 U	190 U	5.9 U	5.9 U	5.9 U
1,2-Dibromo-3-chloropropane (DBCP)	0.0016	2.1	9.7 UJ	490 UJ	9.7 UJ	9.7 UJ	9.7 UJ
1,2-Dibromoethane (Ethylene dibromide)	0.041	94	3.1 U	78 U	3.1 U	3.1 U	3.1 U
1,2-Dichlorobenzene	-	2100	2.4 U	61 U	2.4 U	2.4 U	2.4 U
1,2-Dichloroethane	0.94	73	0.81 U	62 U	0.81 U	0.81 U	0.81 U
1,2-Dichloropropane	2.4	42	0.92 U	70 U	0.92 U	0.92 U	0.92 U
1,3-Dichlorobenzene[a]	2.2	8300	2.4 U	120 U	2.0 J	2.4 U	2.4 U
1,4-Dichlorobenzene	2.2	8300	2.4 U	120 U	2.4 U	2.4 U	2.4 U
2-Butanone (Methyl ethyl ketone) (MEK)	-	52000	2.9 U	150 U	1.9 J	1.5 J	3.2
2-Hexanone	-	310	2.0 U	210 U	2.0 U	2.0 U	2.0 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	-	31000	1.6 U	210 U	1.6 U	1.6 U	3.9 J
Acetone	-	320000	7.1 U	120 U	17 UJ	11 U	21 U
Benzene	3.1	310	0.96 U	49 U	1.8	1.9	1.7
Bromodichloromethane	0.66	-	2.0 U	68 U	2.0 U	2.0 U	2.0 U
Bromoform	22	-	4.1 U	100 U	4.1 U	4.1 U	4.1 U
Bromomethane (Methyl bromide)	-	52	1.6 U	79 U	1.6 U	1.6 U	1.6 U
Carbon disulfide	-	7300	6.5	160 U	8.4	13	11
Carbon tetrachloride	4.1	1000	1.9 U	64 U	1.9 U	1.9 U	1.9 U
Chlorobenzene	-	520	1.4 U	47 U	1.4 U	1.9	1.4 U
Chloroethane	-	100000	1.1 U	53 U	1.1 U	1.1 U	1.1 U
Chloroform (Trichloromethane)	1.1	1000	1.5 U	49 U	**1.2 J[a]**	**14[a]**	**4.5[a]**
Chloromethane (Methyl chloride)	-	940	1.7 U	42 UJ	1.7 U	1.5 J	1.2 J
cis-1,2-Dichloroethene[b]	-	630	0.79 U	40 U	0.79 U	1.4	0.79 U
cis-1,3-Dichloropropene[c]	6.1	210	1.8 U	46 U	1.8 U	1.8 U	1.8 U
Cyclohexane	-	63000	1.7 U	35 U	2.1	1.7 U	1.7 U
Dibromochloromethane	0.9	-	3.4 U	86 U	3.4 U	3.4 U	3.4 U
Dichlorodifluoromethane (CFC-12)	-	1000	4.0	75 U	63	2.5	24
Ethylbenzene	9.7	10000	1.3 U	44 U	4.4	3.2	5.4
Isopropyl benzene	-	4200	2.5 U	50 U	2.5 U	2.5 U	2.5 U
Methyl tert butyl ether (MTBE)	94	31000	3.6 U	37 U	3.6 U	3.6 U	1.4 J
Methylene chloride	960	6300	1.0 U	19 J	0.55 J	1.0 U	1.0 U
Naphthalene	0.72	31	2.6 U	160 U	2.6 U	**3.8[a]**	**7.9[a]**
Styrene	-	10000	1.7 U	43 U	1.7 U	1.7 U	1.7 U
Tetrachloroethene	94	420	1.5 J	69 U	25	**120[a]**	40
Toluene	-	52000	1.1 U	27 J	22	12	18

TABLE 1.2

SOIL VAPOR VOC ANALYTICAL RESULTS COMPARED TO RESIDENTIAL SOIL VAPOR SCREENING LEVELS
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:			*GP06-09*	*GP07-09*	*GP08-09*	*GP09-09*	*GP10-09*
Sample ID:			*A-038443-091609-NH-019*	*A-038443-091609-GL-020*	*A-038443-091709-NH-021*	*A-038443-091509-NH-009*	*A-038443-091509-GL-010*
Sample Date:			*9/16/2009*	*9/16/2009*	*9/17/2009*	*9/15/2009*	*9/15/2009*
	RESIDENTIAL SVSL						
Parameter	*ELCR*	*HI*					
	a	*b*					
trans-1,2-Dichloroethene	-	630	0.79 U	40 U	0.79 U	0.79 U	0.79 U
trans-1,3-Dichloropropene[d]	6.1	210	1.8 U	46 UJ	1.8 U	1.8 U	1.8 U
Trichloroethene	4.3	21	1.0 J	54 U	1.6 J	**2000[ab]**	**40[ab]**
Trichlorofluoromethane (CFC-11)	-	7300	8.8	40 J	74	5.2	5.2
Trifluorotrichloroethane (Freon 113)	-	310000	3.8 U	78 U	3.8 U	3.8 U	3.8 U
Vinyl chloride	1.6	1000	0.51 U	52 U	0.51 U	0.51 U	0.51 U
Xylenes (total)	-	1000	1.3 U	44 U	13	19	30

Notes:

All concentrations are expressed in units of micrograms per cubic meter ($\mu g/m^3$) unless otherwise noted.

J - The parameter was positively identified; however, the associated parameter concentration is estimated.

SVSL = Soil Vapor Screening Level

U - The parameter was not detected. The associated numerical value is the sample quantitation limit.

UJ - The parameter was not detected. The associate numerical values is the estimated sample quantitation limit.

The residential soil vapor screening levels (SVSLs) are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

- Concentration was greater than applicable criteria.

TABLE 1.3

2009 SOIL VAPOR METHANE FIELD MEASUREMENTS COMPARED TO UPPER AND LOWER EXPLOSIVE LIMITS
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

			Sample Location:	*GP01-09*			*GP02-09*			*GP03-09*		
			Sample Date:	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*
			Units:	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*
Parameter	*UEL*	*LEL*	*10% LEL*									
Methane	15	5	0.5	***28.1***	***28.4***	***23.2***	***19.6***	***19.8***	***20.5***	0	0	0

			Sample Location:	*GP04-09*			*GP05-09*			*GP06-09*		
			Sample Date:	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/9/2009*
			Units:	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*
Parameter	*UEL*	*LEL*	*10% LEL*									
Methane	15	5	0.5	7.9	7.8	**0.6**	0	0	0	0.1	0	0

			Sample Location:	*GP07-09*			*GP08-09*			*GP09-09*		
			Sample Date:	*9/18/2009*	*10/14/2009*	*12/9/2009*	*9/18/2009*	*10/14/2009*	*12/9/2009*	*9/18/2009*	*10/14/2009*	*12/9/2009*
			Units:	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*
Parameter	*UEL*	*LEL*	*10% LEL*									
Methane	15	5	0.5	0	0	0	0	0	0	0.1	0	0

			Sample Location:	*GP10-09*			*GP11-09*		*GP12-09*		
			Sample Date:	*9/18/2009*	*10/14/2009*	*12/9/2009*	*9/18/2009*	*12/9/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*
			Units:	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*
Parameter	*UEL*	*LEL*	*10% LEL*								
Methane	15	5	0.5	0.1	0	0	0	0	0.1	0	0

			Sample Location:	*GP13-09*			*GP14-09*			*GP15-09*		
			Sample Date:	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*
			Units:	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*
Parameter	*UEL*	*LEL*	*10% LEL*									
Methane	15	5	0.5	**3.4**	**3.3**	**3.7**	0	0	0	**4.8**	**2**	0

			Sample Location:	*GP16-09*			*GP17-09*			*GP18-09*		
			Sample Date:	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*
			Units:	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*
Parameter	*UEL*	*LEL*	*10% LEL*									
Methane	15	5	0.5	**3.7**	**3.7**	**4.3**	**1.3**	**1.7**	0.1	***26.6***	***23.1***	***20.6***

			Sample Location:	*GP19-09*			*GP20-09*			*GP21-09*		
			Sample Date:	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/10/2009*	*9/18/2009*	*10/14/2009*	*12/9/2009*
			Units:	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*	*%*
Parameter	*UEL*	*LEL*	*10% LEL*									
Methane	15	5	0.5	0.4	0.2	**0.5**	0	0	0	7.1	7.8	2.6

Notes:

Bold values exceed 10% of the LEL

Bold and shaded values exceed the LEL

Bold, shaded, and *italic* values exceed the LEL

UEL = Upper explosive limit

LEL = Lower explosive limit

TABLE 2.1

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 1 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft^2)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
3207	1	9,954	2153 Dryden Rd.	Commercial / Industrial	Globe Equipment – primarily office space with some assembly and warehouse space	Weekdays, 8AM-5PM (15 adult workers)	Sand and Gravel Fill (MW-210A/B, GP11-09)	**Sub-slab Soil Vapor (5 probes)** - VOCs (including naphthalene) by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - cubicle area 1 - kitchen area 1 - warehouse area 2 - along eastern offices hallway	- Multiple probes because building footprint is larger than 1,500 ft^2 and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is industrial/commercial - Methane monitoring at all VI Study buildings	Previous property uses includes junk yard and gas station. Historic gasoline releases occurred on property.
3207	2	19,803	2215 East River Rd.	Industrial	Globe Equipment – primarily warehouse/ assembly space with some office space	Weekdays, 7AM-5PM (25 adult workers)	Sand and Gravel Fill (MW-210A/B, GP09-09, GP11-09)	**Sub-slab Soil Vapor (6 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - offices hallway 1 - service office 1 - parts department 1 - production department 1 - receiving area 1- finished goods warehouse (5-yr. old building addition)	- Multiple probes because building footprint is larger than 1,500 ft2 and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is industrial - Methane monitoring at all VI Study buildings	Floor cracks observed throughout portions of building, floor staining in a number of areas. Historically used as a machine shop - chlorinated solvent use possible. One aluminum addition (Finished Goods Warehouse) is present.
3253	1	926	2233 Front East River Rd.	Residential	Single family residence	7 days per week, 24-hours per day (1 adult)	Sand and Gravel Fill (GP09-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (24 hour) - Methane monitoring before and after 24-hour sample with field meter **Indoor Air (1 location)** - VOCs by TO-15 (24 hour) - Methane monitoring before and after 24-hour sample with field meter	1- center of floor area 1 - northwest side of basement floor area 1 - indoor air sample in center of basement	- Multiple probes because building is residential - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - Methane monitoring at all VI Study buildings	Basement unused, no visible sources of potential sample cross-contamination. Hole in floor contains pipe for condensate and is in line with sewer penetration. Sampling near hole is not recommended due to presence of utilities and because concentrations may be lower at this location due to dilution by basement air.
3253	2	1,128	2233 Front East River Rd.	Residential	Garage	No occupancy; storage only	Sand and Gravel Fill (GP09-09)	**Sub-slab Soil Vapor (1 probe)** - Methane monitoring with field meter (twice, at least 8 hours apart) **Indoor Air** - Methane monitoring with field meter (twice, at least 8 hours apart)	1 - northeast poured concrete section	- Single probe because building footprint is less than 1,500 ft^2 and not compartmentalized - No VOC sampling because building is not designed for occupancy - Methane monitoring at all VI Study buildings	Building used for parking only. Six separate poured sections observed, with unsealed joints. Gasoline present in garage.
3254	1	2,000	2233 Rear East River Rd.	Commercial	Middletown Trucking - heavy truck repair with small unsealed office	Weekdays, 8AM-5PM (3 to 4 adult workers)	Sand and Gravel Fill (GP09-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - center of building 1 - office area	- Multiple probes because building footprint is larger than 1,500 ft^2 - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Chemical storage and heavy floor staining observed in shop interior. Floor cracks observed. Parts washer present, solvent now mineral spirits but may have been chlorinated solvents historically.

TABLE 2.1

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 1 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft^2)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
4610	A	685	2225A East River Rd.	Commercial	ARA Trucking - trailer used as office	Variable, several hours every few weeks (2 adult workers)	Sand and Gravel Fill (GP09-09)	**Crawl Space Air (1 location)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after crawl space air sample with field meter	1 - center of crawl space beneath trailer and above slab	- Crawl space air sample because there is approximately 2 feet separating the trailer floor and the underlying concrete slab - Single crawl space air sampling location because building footprint is less than 1,500 ft^2 and the crawl space is not compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Situated on former Mantle Oil property.
4610	B	1,800	2225B East River Rd.	Commercial	Ron Barnett Construction - Storage (estate items for auction) with unused modular office	Occasionally 2-3 times per month to drop off or pick up items (1 or 2 adult workers)	Sand, Silt, and Gravel Fill (TT-13, VAS-17, GP10-09)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - Center of building	- Single probe because building footprint is less than 1,500 ft^2 and the vacant modular office is the only compartment in the building - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Cracks observed in floor and foundation walls. Situated on former Mantle Oil property.
4610	C	1,088	2225C East River Rd.	Commercial	Ron Barnett Construction - Storage	No occupancy; storage only	Sand and Silt Fill (GP10-09)	**Sub-slab Soil Vapor (1 probe)** - Methane monitoring before with field meter (twice, at least 8 hours apart) **Indoor Air** - Methane monitoring with field meter (twice, at least 8 hours apart)	1 - Center of building	- Single probe because building footprint is less than 1,500 ft^2 and not compartmentalized - No VOC sampling because building is not designed for occupancy - Methane monitoring at all VI Study buildings	Chemicals on bench and drums observed in building interior. Situated on former Mantle Oil property.
4610	D	1,200	2225D East River Rd.	Commercial	Ron Barnett Construction - Storage	No occupancy; storage only	Sand and Silt Fill (GP10-09)	**Sub-slab Soil Vapor (1 probe)** - Methane monitoring before with field meter (twice, at least 8 hours apart) **Indoor Air** - Methane monitoring with field meter (twice, at least 8 hours apart)	1 - Center of building	- Single probe because building footprint is less than 1,500 ft^2. and not compartmentalized - No VOC sampling because building is not designed for occupancy - Methane monitoring at all VI Study buildings	Chemicals visible in southern portion of storage building. Floor cracking observed, especially at north end. Situated on former Mantle Oil property.
4610	E	1,200	2225E East River Rd.	Commercial	Ron Barnett Construction - office, car repair shop and storage	Car repair section – variable occupancy including evenings & weekends (2 adult workers) Office - variable occupancy during business hours (1 adult worker)	Sand, Silt, and Gravel Fill (TT-17. MW-212, GP10-09, GP09-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - center of office (NW) 1 - center of shop area	- Multiple probes because building is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Majority of building is used for storage and car repair with no weather seals and outdoor to indoor air exchange during warmer weather. Office has weather seals in fair condition. Vehicle painting in the car repair area. Significant floor cracks in office and adjacent storage areas. Some staining observed in shop area. Situated on former Mantle Oil property

TABLE 2.1

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 1 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft^2)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
5054	MP	365	1927 Dryden Rd.	Commercial	Vacant - former Murphy's Plumbing (Sales of used plumbing fixtures)	No occupancy - tenant vacated site on July 1, 2011	Sand and Gravel Fill (MW219)	**Crawl Space Air (1 location)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after crawl space air sample with field meter	1 - center of crawl space beneath floor and above slab	- Crawl space air sample because building is on raised foundation, with a crawl space - Single crawl space air sampling location because building footprint is less than 1,500 ft^2 and the crawl space is not compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings -	Building is in poor condition and unsuited for most purposes. Current owner vacated site July 1, 2011.
5054	1	1,500	1901 Dryden Rd.	Commercial	Vacant – former Valley Asphalt plant offices	No occupancy - vacant for past 4 - 5 years	Sand and Gravel Fill (GP17-09)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - center of building	- Single probe because building footprint is less than 1,500 ft^2 and not compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	
5054	2	4,888	1903 Dryden Rd.	Commercial / Industrial	Valley Asphalt – storage and former office space (north side of building)	No occupancy – storage only and north side office space has been vacant for 10 years	Sand Fill (GP18-09); Silty Sand and Gravel Fill (BH08-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 – center of office 1 – center of storage area	- Multiple probes because building footprint is larger than 1,500 ft^2 and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial / industrial Methane monitoring at all VI Study buildings	Building windows are broken in storage area. Floor cracks and unsealed joints visible in open shop area. Carpet in office area has strong moldy/musty odor, and is in bad condition.
5054	3	457	1901 Dryden Rd.	Industrial	Vacant – former Valley Asphalt garage	No occupancy	Sand and Gravel Fill (GP17-09, TT-21)	**Indoor Air** - Methane monitoring with field meter (twice, at least 8 hours apart)	1 –center of building (indoor air monitoring only)	- Indoor air sample because building has earthen floor. - Single indoor air sampling location because building footprint is less than 1,500 ft^2 and not compartmentalized - No VOC sampling because building is not designed for occupancy - Methane monitoring at all VI Study buildings -	Building is in poor condition and unsafe to occupy. Overhead door is missing panels. Man door is missing.
5054	4	280	1901 Dryden Rd.	Industrial	Valley Asphalt – plant control building	Weekday business hours (2 adult workers)	Sand and Gravel Fill (MW-217, VAS-02)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 – center of basement	- Single probe because building footprint is less than 1,500 ft^2 and the basement is not compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is industrial - Methane monitoring at all VI Study buildings	Paint storage in building.

TABLE 2.1

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 1 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft^2)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
5054	5	594	1901 Dryden Rd.	Industrial	Valley Asphalt – testing lab and office	Testing lab - Variable and rare occupancy (4 adult workers) Office - variable occupancy during business hours (1 adult worker)	Sand and Gravel Fill (MW-217, VAS-02)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 – office area towards center of building	- Single probe because building footprint is less than 1,500 ft^2 and only one of the two compartments is typically used - VOC sampling because building is designed for occupancy - 8-hour sampling because building is industrial - Methane monitoring at all VI Study buildings	May have historically used chlorinated solvents for asphalt testing.
5054	6	218	1901 Dryden Rd.	Industrial	Valley Asphalt – storage	No occupancy; storage only	Sand Fill (TP-6)	**Indoor Air** - Methane monitoring with field meter (twice, at least 8 hours apart)	1 – indoor air sample from center of floor (indoor air monitoring only)	- Indoor air sample because building has earthen floor. - Single indoor air sampling location because building footprint is less than 1,500 ft^2 and not compartmentalized - No VOC sampling because building is not designed for occupancy - Methane monitoring at all VI Study buildings	Chemical storage within building. Oil and bitumen ASTs located outside building.
5054	7	822	unknown	Industrial	Unknown – garage / storage	No occupancy; storage only	Sand and Gravel Fill (VAS-09, MW-219)	**Sub-slab Soil Vapor (1 probe)** - Methane monitoring before with field meter (twice, at least 8 hours apart) **Indoor Air** - Methane monitoring with field meter (twice, at least 8 hours apart)	1 - left side of building, minimum 5 feet from exterior wall (if access if provided, explosive gas monitoring only)	- Single probe sampling location because building footprint is less than 1,500 ft^2 and not compartmentalized - No VOC sampling because building is not designed for occupancy - Methane monitoring at all VI Study buildings	Long-term vehicle storage, fluid leaks possible.
5171	1	13,700	1951 Dryden Rd.	Commercial	B&G Trucking - heavy truck repair with some office space	Weekdays, 7AM-5PM (7 adult workers)	Asphalt, Sand and Travel Fill (MW-216)	**Sub-slab Soil Vapor (5 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	2 – office space (east side) 3 – shop area	- Multiple probes because building footprint is larger than 1,500 ft^2 and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Spills on floor of truck bay area, and pooled liquid under two trucks. Strong paint odor in NE office area and paint booth in western portion of building. Building contains a parts washer, which uses petroleum distillates.
5171	2	5,000	1951 Dryden Rd.	Commercial	B&G Trucking - heavy truck repair	Weekdays, 7AM-5PM (2 adult workers)	Sand and Silt Fill (GP16-09, MW-227, VAS-07)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 – offices 1 – shop area	- Multiple probes because building footprint is larger than 1,500 ft^2 - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Portion of building used for paint and chemical storage. Floor contains some cracking and unsealed floor joints. Floor staining observed in bays.
5171	3	1,250	1951 Dryden Rd.	Commercial	B&G Trucking – sandblasting trucks	Occupied as needed during hours of operation 7AM-5PM	Sand and Gravel Fill (VAS-06, VAS-07)	No sampling proposed		No sampling required because the building is a steel frame with canvas walls and is open at both ends. Canvas flaps can be closed but do not provide a seal.	Operations in the building include sandblasting Building floor is asphalt.

TABLE 2.1

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 1 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft^2)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
5171	4	495	1915 Dryden Rd.	Unknown-not accessible at time of building surveys. However, it appears to have been vacant for multiple years.			Sand and Gravel Fill (VAS-09, MW-219)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 or 24 hour depending on use type) - Methane monitoring before and after 8- or 24-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - center of building	- Single probe sampling location because building footprint is less than 1,500 ft^2 - VOC sampling because building is designed for occupancy - 8 or 24-hour sampling because building is either commercial/industrial or residential - Methane monitoring at all VI Study buildings	Building is in poor condition and is likely unsafe to occupy.
5172	1	11,600 ft^2 total; 5,800 ft^2 accessible at time of building survey	2015 + 2019 Dryden Rd.	Commercial / Industrial	Northern half of the building is S&J Precision Machining, and southern half is Overstreet Painting	Northern half - Weekdays, 6AM-5PM (5 adult workers) Southern half – unknown but likely infrequent	Silty Sand Fill (MW-208, VAS-08)	**Sub-slab Soil Vapor (6 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	2 - northern half workspace 1 - northern half warehouse 1 - center of building 2 - southern half	- Multiple probes because building footprint is larger than 1,500 ft^2 and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial / industrial - Methane monitoring at all VI Study buildings - No probes in north office wing because of suspected asbestos-containing material tiles	Floor staining observed in warehouse at rear of building. Chemical storage cabinet contains IPA and PCE containers. Southern half of building was not accessible during the building surveys (Overstreet Painting).
5172	2	2,886	2003 Dryden Rd.	Commercial	Vacant – former A-Evans Air Filter Service (supply and cleaning of grease filters)	No occupancy – recently vacated	Sand and Silt Fill (GP15-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 – office space (south side) 1 – center of warehouse	- Multiple probes because building footprint is larger than 1,500 ft^2 and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Former building activities include metal workshop, possibly with a degreaser given large vent opening in wall. Dark staining observed around grease filter wash area. Metal shed on north side of building.
5172	3	721	Unknown	Unknown-not accessible at time of building surveys				**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) if building is designed for occupancy - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - center of building	- Single probe because building footprint is less than 1,500 ft^2 - VOC sampling if building is designed for occupancy - 8-hour sampling because building is commercial or industrial - Methane monitoring at all VI Study buildings	
5173	1	8,250	2031 Dryden Rd.	Commercial	SIM Trainer - combat training and gun range	Occupied during business hours (M-W-F 5 PM to 9 PM, Tu-Th 10AM – 2 PM, Sat 9 AM – 5 PM, Sun 1 PM – 5 PM) (one adult worker for 4 hour shifts and customers)	Sand and Gravel Fill (GP14-09)	**Sub-slab Soil Vapor (3 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 - classroom / sales area 1 - gun range shooting area 1 – storage area on northern side	- Multiple probes because building footprint is larger than 1,500 ft^2 and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Heavy staining observed in northern portion of building. Former machine shop. Western section of the building is inaccessible. Northern section is accessed infrequently.

TABLE 2.1

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 1 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft^2)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
5174	1	12,500	2045 Dryden Rd.	Commercial	Command Roofing - storage with former office space on east side	No occupancy – storage only and east side office space has been vacant for multiple years Building is accessed infrequently only to pick-up materials (2 adult workers)	Sand and Gravel Fill and Foundry Sand (TT-10); Silt and Clay Fill (VAS-15); Sand Fill (GP13-09)	**Sub-slab Soil Vapor (5 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 – former office space on east side 4 - storage area	- Multiple probes because building footprint is larger than 1,500 sq. ft. and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Building is not partitioned through Sections B to E, though grade beams and foundation walls may be present. Former building activities included boiler manufacturing involving use of solvents. Cracks observed throughout. Water staining observed in Section A. Heavily stained flooring throughout Sections B to E. In Sections D and E, slab observed in very bad condition. Paint odor noticeable. Mold odor in offices. Was a boiler manufacturer for approximately 40 years.
5175	1	4,557	2075 Dryden Rd.	Commercial	Vacant - former Alliance Equipment and Supply (office space on east side, retail space in center and warehouse space on west side)	Tenant vacating premises at time of building survey.	Sand Fill (GP12-09)	**Sub-slab Soil Vapor (3 probes)** - VOCs by TO-15 (8 hour) - Methane monitoring before and after 8-hour sample with field meter **Indoor Air** - Methane monitoring before and after sub-slab soil vapor sample with field meter	1 – former office space 1 – former retail space 1 – former warehouse	- Multiple probes because building footprint is larger than 1,500 sq. ft. and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - Methane monitoring at all VI Study buildings	Floor staining observed in warehouse area and rear storage shed. Paints and chemicals observed in warehouse area. Gasoline UST was removed in 1990 from former Conway Fence facility located on Parcel 5175.

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
2943	1	<900	Unit 15	Residential	Single family residence	Variable - residential	Gravel Fill, sand, silt (VAS-24)	**Crawl Space Air (1 location)** - VOCs by TO-15 (24 hour) - LEL monitoring before and after 24-hour sample with field meter **Indoor Air** - LEL monitoring before and after crawl space air sample with field meter	1 - center of crawl space beneath trailer and above slab or ground	- Crawl space air sample because there is an enclosed crawl space beneath the trailer - Single crawl space air sampling location because building footprint is less than 1,500 ft² and the crawl space is not compartmentalized - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	
2943	2	<900	Unit 112	Residential	Single family residence	Variable - residential	Gravel Fill, sand, silt (VAS-24)	**Crawl Space Air (1 location)** - VOCs by TO-15 (24 hour) - LEL monitoring before and after 24-hour sample with field meter **Indoor Air** - LEL monitoring before and after crawl space air sample with field meter	1 - center of crawl space beneath trailer and above slab or ground	- Crawl space air sample because there is an enclosed crawl space beneath the trailer - Single crawl space air sampling location because building footprint is less than 1,500 ft² and the crawl space is not compartmentalized - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	
3207	1	9,954	2153 Dryden Rd.	Commercial / Industrial	Globe Equipment – primarily office space with some assembly and warehouse space	Weekdays, 8AM-5PM (15 adult workers)	Sand and Gravel Fill (MW-210A/B, GP11-09)	**Sub-slab Soil Vapor (5 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (3 locations)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter	1 - cubicle area (IA) 1 – east conference room (IA) 1 - server room (SS) 1 - warehouse area (SS and IA) 1- warehouse area (SS) 1 – north office (SS) 1- south closet	- Multiple probes and IA samples because building footprint is larger than 1,500 ft² and is compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - 8-hour sampling because building is industrial/commercial - LEL monitoring at all VI Study buildings	Previous property uses includes junk yard and gas station. Historic gasoline releases occurred on property.

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
3207	2	19,803	2215 East River Rd.	Industrial	Globe Equipment – primarily warehouse/ assembly space with some office space	Weekdays, 7AM-5PM (25 adult workers)	Sand and Gravel Fill (MW-210A/B, GP09-09, GP11-09)	**Sub-slab Soil Vapor (6 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (4 locations)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Radon (4 concurrent SS & IA locations)** - Radon-222 by USEPA GS	1 - offices hallway (SS and IA) 1 - service office (SS) 1 - parts department (SS and IA) 1 - production department (SS and IA) 2- finished goods warehouse (SS, 1 IA)(5-yr. old building addition)	- Multiple probes and IA samples because building footprint is larger than 1,500 ft2 and is compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - Radon sampling to provide additional line of evidence for VI evaluation due to potential background VOC sources - 8-hour sampling because building is industrial - LEL monitoring at all VI Study buildings	Floor cracks observed throughout portions of building, floor staining in a number of areas. Historically used as a machine shop - chlorinated solvent use possible. One aluminum addition (Finished Goods Warehouse) is present.
3251	1	760	2232 East River Rd.	Residential	Single family residence	Variable – residential (2 adults, 1 child)	Sand and Gravel (VAS-25)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (24-hour) - LEL monitoring before and after 24-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter	1 – centre of basement	- Single probe because residential building is less than 900 ft², in accordance with USEPA email dated July 16, 2012. - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	Unfinished basement floor contains sump and small drain. Building occupants smoke. Smoke and food odors observed.
3253	1	926	2233 Front East River Rd.	Residential	Single family residence	Variable, residential (1 adult)	Sand and Gravel Fill (GP09-09)	**Indoor Air (1 location)** - VOCs by TO-15 (24 hour) - LEL monitoring before and after 24-hour sample with field meter	1 – northwest portion of basement (IA)	- Indoor air sampling without subslab sampling because: 1) slab is only ¾ inches thick; 2) slab has large hole; and 3) basement walls in poor condition - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	Basement unused, no visible sources of potential sample cross-contamination. Hole in floor (approx. 2 ft diameter) contains pipe for condensate and is in line with sewer penetration.

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
3253	2	1,128	2233 Front East River Rd.	Residential	Garage	No occupancy; storage only	Sand and Gravel Fill (GP09-09)	**Sub-slab Soil Vapor (1 probe)** - LEL monitoring with field meter (twice, at least 8 hours apart) **Indoor Air** - LEL monitoring with field meter (twice, at least 8 hours apart)	1 - northeast poured concrete section	- Single probe because building footprint is less than 1,500 ft² and not compartmentalized - No VOC sampling because building is not designed for occupancy - LEL monitoring at all VI Study buildings	Building used for parking only. Six separate poured sections observed, with unsealed joints. Gasoline present in garage.
3254	1	2,000	2233 Rear East River Rd.	Commercial	Middletown Trucking - heavy truck repair with small unsealed office	Weekdays, 8AM-5PM (3 to 4 adult workers)	Sand and Gravel Fill (GP09-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter **Radon (2 concurrent SS & IA locations)** - Radon-222 by USEPA GS during Round 2 follow-up sample event	1 - center of building 1 - office area	- Multiple probes because building footprint is larger than 1,500 ft² - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings - Radon sampling to provide additional line of evidence for VI evaluation due to potential background VOC sources	Chemical storage and heavy floor staining observed in shop interior. Floor cracks observed. Parts washer present, solvent now mineral spirits but may have been chlorinated solvents historically.
3255	1	TBD	2317 East River Rd.	Residential	Single-family residence	TBD - residential	Silt and Sand Fill (GP08-09, VAS-22)	**Sub-slab Soil Vapor (1 probes)** - VOCs by TO-15 (24-hour) - LEL monitoring before and after 24-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter	TBD	- Single probe because residential building is less than 900 ft², in accordance with USEPA email dated July 16, 2012. - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	Access Agreement was not obtained from building owner during VI Investigation
3257	1	TBD	2347 East River Rd.	Residential	Single-family residence	TBD - residential	Silt, Sand and Gravel, (GP06-09, MW-214, VAS-23, GP-07-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (24-hour) - LEL monitoring before and after 24-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter	TBD	- Single probe because residential building is less than 900 ft², in accordance with USEPA email dated July 16, 2012. - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	Access Agreement was not obtained from building owner during VI Investigation
3258	1	TBD	2359 East River Rd.	Residential	Single-family residence	TBD - residential	Clayey Silt Fill, Sand and Gravel,	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (24-hour) - LEL monitoring before and after 24-	TBD	- Single probe because residential building is less than 900 ft², in accordance with USEPA email	Access Agreement was not obtained from building owner during

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
							(GP06-09, MW-214, VAS-23)	hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter		dated July 16, 2012. - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	VI Investigation
3262	1	625	2373 East River Rd.	Residential	Single-family residence	Variable- residential (1 adult)	Clayey Silt Fill, Sand and Gravel, (GP06-09, MW-214, VAS-23)	**Sub-slab Soil Vapor (1 probes)** - VOCs by TO-15 (24-hour) - LEL monitoring before and after 24-hour sample with field meter **Crawl Space Air (1 location)** - VOCs by TO-15 (24 hour) **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter **Radon (1 concurrent SS & IA locations)**- Radon-222 by USEPA GS during Round 2 follow-up sample event	1 - center of basement 1 – crawl space access	- Single probe because residential building is less than 900 ft², in accordance with USEPA email dated July 16, 2012. - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings - Radon sampling to provide additional line of evidence for VI evaluation	
3263	1	590	2391 East River Rd.	Residential	Single-family residence	No occupancy, vacant residential	Clayey Silt Fill, Sand and Gravel (GP06-09, MW-214, VAS-23	**Sub-slab Soil Vapor (1 probes)** - VOCs by TO-15 (24-hour) - LEL monitoring before and after 24-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter **Radon (1 concurrent SS & IA locations)**- Radon-222 by USEPA GS during Round 2 follow-up sample event	1 – basement, in vicinity of utility penetrations	- Single probe because residential building is less than 900 ft², in accordance with USEPA email dated July 16, 2012. - VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings - Radon sampling to provide additional line of evidence for VI evaluation	Visible evidence of leakage through basement walls or floor. Carpet and linoleum were installed on first floor within the six months prior to the building survey. Painting in basement and first floor occurred within the past year. New carpet, mastic, caulk, etc. odors were observed.
4610	A	685	2225A East River Rd.	Residential	Residence	Variable, residential (1 adult)	Sand and Gravel Fill (GP09-09)	**Crawl Space Air (1 location)** - VOCs by TO-15 (24 hour) - LEL monitoring before and after 24-hour sample with field meter **Indoor Air** - LEL monitoring before and after crawl space air sample with field	1 - center of crawl space beneath trailer and above slab	- Crawl space air sample because there is approximately 2 feet separating the trailer floor and the underlying concrete slab - Single crawl space air sampling location because building footprint is less than 1,500 ft² and the crawl space is not compartmentalized	Situated on former Mantle Oil property.

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
								meter		- VOC sampling because building is designed for occupancy - 24-hour sampling because building is residential - LEL monitoring at all VI Study buildings	
4610	B	1,800	2225B East River Rd.	Commercial	Ron Barnett Construction - Storage (estate items for auction) with unused modular office	Occasionally 2-3 times per month to drop off or pick up items (1 or 2 adult workers)	Sand, Silt, and Gravel Fill (TT-13, VAS-17, GP10-09)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter	1 - Center of building	- Single probe because building footprint is less than 1,500 ft² and the vacant modular office is the only compartment in the building - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings	Cracks observed in floor and foundation walls. Situated on former Mantle Oil property.
4610	C	1,088	2225C East River Rd.	Commercial	Ron Barnett Construction - Storage	No occupancy; storage only	Sand and Silt Fill (GP10-09)	**Sub-slab Soil Vapor (1 probe)** - LEL monitoring before with field meter (twice, at least 8 hours apart) **Indoor Air** - LEL monitoring with field meter (twice, at least 8 hours apart)	1 - Center of building	- Single probe because building footprint is less than 1,500 ft² and not compartmentalized - No VOC sampling because building is not designed for occupancy - LEL monitoring at all VI Study buildings	Chemicals on bench and drums observed in building interior. Situated on former Mantle Oil property.
4610	D	1,200	2225D East River Rd.	Commercial	Ron Barnett Construction - Storage	No occupancy; storage only	Sand and Silt Fill (GP10-09)	**Sub-slab Soil Vapor (1 probe)** - LEL monitoring before with field meter (twice, at least 8 hours apart) **Indoor Air** - LEL monitoring with field meter (twice, at least 8 hours apart)	1 - Center of building	- Single probe because building footprint is less than 1,500 ft². and not compartmentalized - No VOC sampling because building is not designed for occupancy - LEL monitoring at all VI Study buildings	Chemicals visible in southern portion of storage building. Floor cracking observed, especially at north end. Situated on former Mantle Oil property.
4610	E	1,200	2225E East River Rd.	Commercial	Ron Barnett Construction - office, car repair shop and storage	Car repair section – variable occupancy including evenings & weekends (2 adult workers) Office - variable occupancy during business hours (1 adult worker)	Sand, Silt, and Gravel Fill (TT-17. MW-212, GP10-09, GP09-09)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter	1 - center of office (NW) 1 - center of shop area	- Multiple probes because building is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings	Majority of building is used for storage and car repair with no weather seals and outdoor to indoor air exchange during warmer weather. Office has weather seals in fair condition. Vehicle painting in the

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
											car repair area. Significant floor cracks in office and adjacent storage areas. Some staining observed in shop area. Situated on former Mantle Oil property
5054	MP	365	1927 Dryden Rd.	Commercial	Vacant - former Murphy's Plumbing (Sales of used plumbing fixtures)	No occupancy - tenant vacated site on July 1, 2011	Sand and Gravel Fill (MW219)	**Crawl Space Air (1 location)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air** - LEL monitoring before and after crawl space air sample with field meter	1 - center of crawl space beneath floor and above slab	- Crawl space air sample because building is on raised foundation, with a crawl space - Single crawl space air sampling location because building footprint is less than 1,500 ft² and the crawl space is not compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings	Building is in poor condition and unsuited for most purposes. Current owner vacated site July 1, 2011.
5054	1	1,500	1901 Dryden Rd.	Commercial	Vacant – former Valley Asphalt plant offices	No occupancy - vacant for past 4 - 5 years	Sand and Gravel Fill (GP17-09)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (1 location)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter	1 - utility closet (SS) 1 – center of building (IA)	- Single probe and IA sample because building footprint is less than 1,500 ft² and not compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings	
5054	2	4,888	1903 Dryden Rd.	Commercial / Industrial	Valley Asphalt – storage and former office space (north side of building)	No occupancy – storage only and north side office space has been vacant for 10 years	Sand Fill (GP18-09); Silty Sand and Gravel Fill (BH08-09)	**No sampling proposed for Round 2**	(There are 2 existing subslab probes in this building.)	- No sampling because mitigation measures are planned for the building - LEL monitoring performed weekly in accordance with OAC requirements	Floor cracks and unsealed joints visible in open shop area. Carpet in office area has strong moldy/musty odor, and is in bad condition.
5054	3										Building was demolished in February 2012.

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
5054	4	280	1901 Dryden Rd.	Industrial	Valley Asphalt – plant control building	Weekday business hours (2 adult workers)	Sand and Gravel Fill (MW-217, VAS-02)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (2 locations)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter	1 – center of basement (SS) 1 – west central portion of basement (IA) 1 – northeast portion of first floor (IA)	- Single probe because building footprint is less than 1,500 ft² and the basement is not compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - Two IA samples (basement potential worst case, and occupied floor above) - 8-hour sampling because building is industrial - LEL monitoring at all VI Study buildings	Paint storage in building.
5054	5	594	1901 Dryden Rd.	Industrial	Valley Asphalt – testing lab and office	Testing lab - Variable and rare occupancy (4 adult workers) Office - variable occupancy during business hours (1 adult worker)	Sand and Gravel Fill (MW-217, VAS-02)	**Sub-slab Soil Vapor (1 probe)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (1 location)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter	1 – office area towards center of building (SS and IA)	- Single probe and IA sample because building footprint is less than 1,500 ft² and only one of the two compartments is typically used - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - 8-hour sampling because building is industrial - LEL monitoring at all VI Study buildings	May have historically used chlorinated solvents for asphalt testing.
5054	6	218	1901 Dryden Rd.	Industrial	Valley Asphalt – storage	No occupancy; storage only	Sand Fill (TP-6)	**Indoor Air** - LEL monitoring with field meter (twice, at least 8 hours apart)	1 – indoor air sample from center of floor (indoor air monitoring only)	- Indoor air sample because building has earthen floor. - Single indoor air sampling location because building footprint is less than 1,500 ft² and not compartmentalized - No VOC sampling because building is not designed for occupancy - LEL monitoring at all VI Study buildings	Chemical storage within building. Oil and bitumen ASTs located outside building.
5054	7	822	unknown	Industrial	garage / storage	No occupancy; storage only	Sand and Gravel Fill	**Sub-slab Soil Vapor (1 probe)** - LEL monitoring before with field meter (twice, at least 8 hours apart)	1 - center of building	- Single probe sampling location because building footprint is less	Long-term vehicle storage, fluid leaks

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
							(VAS-09, MW-219)	**Indoor Air** - LEL monitoring with field meter (twice, at least 8 hours apart)		than 1,500 ft² and not compartmentalized - No VOC sampling because building is not designed for occupancy - LEL monitoring at all VI Study buildings	possible.
5171	1	13,700	1951 Dryden Rd.	Commercial	B&G Trucking - heavy truck repair with some office space	Weekdays, 7AM-5PM (7 adult workers)	Asphalt, Sand and Gravel Fill (MW-216)	**Sub-slab Soil Vapor (5 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (3 locations)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Radon (3 concurrent SS & IA locations)** - Radon-222 by USEPA GS	1 – office space (east side) (SS and IA) 4 – shop area (SS) 1 – shop area (IA) 1 – shop office (IA)	- Multiple probes and IA samples because building footprint is larger than 1,500 ft² and is compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - 8-hour sampling because building is commercial - Radon sampling to provide additional line of evidence for VI evaluation - LEL monitoring at all VI Study buildings	Spills on floor of truck bay area, and pooled liquid under two trucks. Strong paint odor in NE office area and paint booth in western portion of building. Building contains a parts washer, which uses petroleum distillates.
5171	2	5,000	1951 Dryden Rd.	Commercial	B&G Trucking - heavy truck repair	Weekdays, 7AM-5PM (2 adult workers)	Sand and Silt Fill (GP16-09, MW-227, VAS-07)	**No sampling proposed for Round 2**	(There are 2 existing probes in the building.)	- No sampling because mitigation measures are planned for the building	Portion of building used for paint and chemical storage. Floor contains some cracking and unsealed floor joints. Floor staining observed in bays.
5171	3	1,250	1951 Dryden Rd.	Commercial	B&G Trucking – sandblasting trucks	Occupied as needed during hours of operation 7AM-5PM	Sand and Gravel Fill (VAS-06, VAS-07)	No sampling proposed		No sampling required because the building is a steel frame with canvas walls and is open at both ends. Canvas flaps can be closed but do not provide a seal.	Operations in the building include sandblasting Building floor is asphalt.
5171	4	495	1915 Dryden Rd.	Commercial	Storage, unused for several years.	No occupancy; storage only	Sand and Gravel Fill (VAS-09, MW-219)	**Crawl Space Air (1 location)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air** - LEL monitoring before and after crawl space air sample with field meter	1 - southeast corner of building	- Single crawl space air sampling location because building footprint is less than 1,500 ft² and the crawl space is not compartmentalized - Crawl space air sample because building is on raised foundation, with a crawl space - VOC sampling because building is designed for occupancy	Building is in poor condition and is likely unsafe to occupy.

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
										- 8-hour sampling because building is commercial/industrial - LEL monitoring at all VI Study buildings	
5172	1	11,600 ft² total; 5,800 ft² accessible at time of building survey	2015 + 2019 Dryden Rd.	Commercial / Industrial	Northern half of the building is S&J Precision Machining, and southern half is Overstreet Painting	Northern half - Weekdays, 6AM-5PM (5 adult workers) Southern half – unknown but likely infrequent	Silty Sand Fill (MW-208, VAS-08)	**No sampling proposed for Round 2**	(There are 6 existing probes in the building.)	No sampling because mitigation measures are planned for the building	Floor staining observed in warehouse at rear of building. Chemical storage cabinet contains IPA and PCE containers. Southern half of building was not accessible during the building surveys (Overstreet Painting).
5172	2	2,886	2003 Dryden Rd.	Commercial	Bullseye Amusements	Occupied during business hours (approx. 5 – 10 adults)	Sand and Silt Fill (GP15-09)	**Sub-slab Soil Vapor (3 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (3 locations)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter	1 – south office space (SS and IA) 1 – center service area (SS and IA) 1 – north storage area (SS and IA)	- Multiple and IA samples probes because building footprint is larger than 1,500 ft² and is compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings	Former building activities include metal workshop, possibly with a degreaser given large vent opening in wall. Dark staining observed around grease filter wash area. Metal shed on north side of building.
5172	3	900	2019 Dryden Rd.	Commercial	Storage building for Overstreet Painting	No occupancy; storage only	Silty Sand Fill (MW-208, VAS-08)	**Sub-slab Soil Vapor (1 probe)** - LEL monitoring before with field meter (twice, at least 8 hours apart) **Indoor Air** - LEL monitoring before with field meter (twice, at least 8 hours apart)	1 - center of building	- Single probe because building footprint is less than 1,500 ft² - No VOC sampling because building is not designed for occupancy - LEL monitoring at all VI Study buildings	
5173	1	8,250	2031 Dryden Rd.	Commercial	SIM Trainer - combat training and gun range	Occupied during business hours (M-W-F 5 PM to 9 PM, Tu-Th 10AM – 2 PM, Sat 9 AM – 5 PM, Sun 1 PM – 5 PM) (one adult worker for 4 hour shifts and customers)	Sand and Gravel Fill (GP14-09)	**No sampling proposed for Round 2**	(There are three existing probes in the building.)	- No sampling because mitigation measures are planned for the building LEL monitoring performed weekly in accordance with OAC requirements	Heavy staining observed in northern portion of building. Former machine shop. Western section of the building is inaccessible. Northern section is accessed infrequently.
5174	1	12,500	2045 Dryden Rd.	Commercial	Command Roofing - storage	No occupancy – storage only and	Sand and Gravel	**Sub-slab Soil Vapor (5 probes)** - VOCs by TO-15 (8 hour)	1 – former office space on east side (IA)	- Multiple probes and IA samples because building footprint is larger	Building is not partitioned through

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
					with former office space on east side	east side office space has been vacant for multiple years Building is accessed infrequently only to pick-up materials (2 adult workers)	Fill and Foundry Sand (TT-10); Silt and Clay Fill (VAS-15); Sand Fill (GP13-09)	- LEL monitoring before and after 8-hour sample with field meter **Indoor Air (3 locations)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Radon (3 concurrent SS & IA locations)** - Radon-222 by USEPA GS	5 - storage area (SS) 2 – storage area (IA)	than 1,500 sq. ft. and is compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - 8-hour sampling because building is commercial - Radon sampling to provide additional line of evidence for VI evaluation due to potential background VOC sources - LEL monitoring at all VI Study buildings	Sections B to E, though grade beams and foundation walls may be present. Former building activities included boiler manufacturing involving use of solvents. Cracks observed throughout. Water staining observed in Section A. Heavily stained flooring throughout Sections B to E. In Sections D and E, slab observed in very bad condition. Paint odor noticeable. Mold odor in offices. Was a boiler manufacturer for approximately 40 years.
5175	1	4,557	2075 Dryden Rd.	Commercial	Vacant - former Alliance Equipment and Supply (office space on east side, retail space in center and warehouse space on west side)	Tenant vacating premises at time of building survey.	Sand Fill (GP12-09)	**Sub-slab Soil Vapor (3 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air (2 locations)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter	1 – former office space (SS and IA) 1 – former retail space (SS and IA) 1 – former warehouse	- Multiple probes and IA samples because building footprint is larger than 1,500 sq. ft. and is compartmentalized - VOC sampling because building is designed for occupancy - IA sampling because Round 1 SS sample results were greater than SVSLs for further investigation - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings	Floor staining observed in warehouse area and rear storage shed. Paints and chemicals observed in warehouse area. Gasoline UST was removed in 1990 from former Conway Fence facility located on Parcel 5175.
5223	1	8,340	2229 Dryden Rd.	Commercial	Restaurant	Occupied during business hours	Silty sand and gravel fill, silt and clay (MW-213-VAS)	**Sub-slab Soil Vapor (2 probes)** - VOCs by TO-15 (8 hour) - LEL monitoring before and after 8-hour sample with field meter **Indoor Air** - LEL monitoring before and after sub-slab soil vapor sample with field meter **Radon (2 concurrent SS & IA locations)** - Radon-222 by USEPA GS during	1 – storage area of kitchen 1 – adjacent to office	- Multiple probes because building footprint is larger than 1,500 sq. ft. and is compartmentalized - VOC sampling because building is designed for occupancy - 8-hour sampling because building is commercial - LEL monitoring at all VI Study buildings - No probes in areas with suspected	

TABLE 2.2

SUMMARY OF BUILDING SURVEY INSPECTION RESULTS AND PROPOSED ROUND 2 SAMPLING STRATEGY
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE,
MORAINE, OHIO

Parcel	*Building Number*	*Building Footprint Area (ft²)*	*Address*	*Commercial, Residential, or Industrial*	*Uses*	*Hours of Occupancy (Number of Occupants)*	*Vadose Zone Soil Type (Investigative Locations)*	*Sampling Strategy*	*Location and Number of Samples*	*Sampling Strategy Rationale*	*Additional Factors for Consideration*
								Round 2 follow-up sample event		asbestos-containing material tiles - Radon sampling to provide additional line of evidence for VI evaluation	

Notes:

TBD – to be determined

VOCs – volatile organic compounds, including naphthalene

LEL – lower explosive limit

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 3207, Bldg 1, Probe A*	*Parcel 3207, Bldg 1, Probe B*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe E*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe D*
Sample ID:					*SS-38443-010712-JC-032*	*SS-38443-010712-JC-034*	*SS-38443-010712-JC-033*	*SS-38443-010712-JC-030*	*SS-38443-010712-JC-029*	*SS-38443-010712-JC-031*	*SS-38443-010712-JC-035*	*SS-38443-010712-JC-041*	*SS-38443-010712-JC-039*	*SS-38443-010712-JC-040*	*SS-38443-010712-JC-038*
Sample Date:					*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*
		ELCR	HI						*Duplicate*					*Duplicate*	
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m^3		1		0	0	0	0	-	0	1	3[b]	0	-	0
Total Risk	µg/m^3	1E-5			5E-06	2E-08	2E-06	1E-07	-	8E-08	2E-06	9E-06	5E-07	-	1E-07
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m^3		22000		2.1	0.95 U	1.6 J	0.57 U	0.57 U	0.57 U	0.95 U	20	7.4	7.6	7.6 J
1,1,2,2-Tetrachloroethane	µg/m^3	2.1			0.27 U	1.4 U	0.82 U	0.82 U	0.82 U	0.82 U	1.4 U	0.96 U	0.27 U	0.27 U	2.7 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88		0.10 U	0.52 U	0.31 U	0.31 U	0.31 U	0.31 U	0.52 U	0.36 U	0.10 U	0.10 U	1.0 U
1,1-Dichloroethane	µg/m^3	77		630	0.14 U	0.71 U	0.42 U	0.42 U	0.42 U	0.42 U	0.71 U	0.50 U	0.14 U	0.14 U	1.4 U
1,1-Dichloroethene	µg/m^3		880		0.12 U	0.59 U	0.36 U	0.36 U	0.36 U	0.36 U	0.59 U	0.42 U	0.12 U	0.12 U	1.2 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		0.37 U	1.9 U	1.1 U	1.1 U	1.1 U	1.1 U	1.9 U	1.3 U	0.37 U	0.37 U	3.7 U
1,2,4-Trimethylbenzene	µg/m^3		31		22	1.3 U	3.0	0.76 U	0.76 U	0.76 U	1.3 U	1.5 J	0.26 U	0.26 U	2.6 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39		0.14 U	0.69 U	0.41 U	0.41 U	0.41 U	0.41 U	0.69 U	0.49 U	0.14 U	0.14 U	1.4 U
1,2-Dichlorobenzene	µg/m^3		880		0.29 U	1.4 U	0.86 U	0.86 U	0.86 U	0.86 U	1.4 U	1.0 U	0.29 U	0.29 U	2.9 U
1,2-Dichloroethane	µg/m^3	4.7	31		0.13 U	0.63 U	0.38 U	0.38 U	0.38 U	0.38 U	0.63 U	0.44 U	0.13 U	0.13 U	1.3 U
1,2-Dichloroethene (total)	µg/m^3				0.24 J	0.28 U	0.17 U	0.17 U	0.17 U	0.17 U	3.6 J	0.19 U	0.056 U	0.056 U	0.56 U
1,2-Dichloropropane	µg/m^3	12	18		0.065 U	0.32 U	0.19 U	0.19 U	0.19 U	0.19 U	0.32 U	0.23 U	0.065 U	0.065 U	0.65 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				0.22 U	1.1 U	0.67 U	0.67 U	0.67 U	0.67 U	1.5 J	0.79 U	0.22 U	0.22 U	2.2 U
1,3,5-Trimethylbenzene	µg/m^3				26	1.3 U	8.5	0.75 U	0.75 U	0.75 U	1.3 U	0.88 U	0.25 U	0.25 U	2.5 U
1,3-Butadiene	µg/m^3	4.1	8.8		0.022 U	0.11 U	0.066 U	0.066 U	0.066 U	0.066 U	0.11 U	0.078 U	0.022 U	0.022 U	0.22 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500		0.26 U	1.3 U	0.79 U	0.79 U	0.79 U	0.79 U	1.3 U	0.93 U	0.26 U	0.26 U	2.6 U
1,4-Dichlorobenzene	µg/m^3	11	3500		2.7	1.3 U	0.79 U	0.79 U	0.79 U	0.79 U	1.3 U	1.3 J	0.26 U	0.30 J	2.6 U
1,4-Dioxane	µg/m^3	16	13000		0.32 U	1.6 U	1.7 J	0.95 U	0.95 U	0.95 U	1.6 U	1.1 U	0.32 U	0.32 U	3.2 U
2,2,4-Trimethylpentane	µg/m^3				2.3	0.84 U	7.6	0.50 U	0.50 U	0.50 U	0.84 U	0.59 U	0.17 U	0.17 U	1.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		9.2	0.25 U	3.6 J	1.6 J	1.9 J	1.2 J	0.25 U	21	2.1	1.9	0.50 U
2-Chlorotoluene	µg/m^3				0.24 U	1.2 U	0.73 U	0.73 U	0.73 U	0.73 U	1.2 U	0.85 U	0.24 U	0.24 U	2.4 U
2-Hexanone	µg/m^3		130		0.16 U	0.80 U	0.48 U	0.48 U	0.48 U	0.48 U	0.80 U	0.56 U	0.16 U	0.16 U	1.6 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				1.6	1.3 U	3.4	0.77 U	0.77 U	0.77 U	1.3 U	0.91 U	0.26 U	0.26 U	2.6 U
4-Ethyl toluene	µg/m^3				7.1	1.1 U	4.7	0.68 U	0.68 U	0.68 U	1.1 U	0.79 U	0.23 U	0.23 U	2.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		0.11 U	0.53 U	0.32 U	0.32 U	0.32 U	0.32 U	0.53 U	1.0 J	0.11 U	1.1 J	1.1 U
Acetone	µg/m^3		140000		55	19 J	32 J	50	43	24 J	6.2 J	26 J	8.3 J	7.8 J	11 J
Allyl chloride	µg/m^3	20	4.4		0.059 U	0.30 U	0.18 U	0.18 U	0.18 U	0.18 U	0.30 U	0.21 U	0.059 U	0.059 U	0.59 U
Benzene	µg/m^3	16	130	40	7.3	0.29 U	13	0.17 U	0.17 U	0.17 U	0.29 U	0.20 U	0.071 J	0.16 J	0.58 U
Benzyl chloride	µg/m^3	2.5	4.4		0.24 UJ	1.2 U	0.71 U	0.71 UJ	0.71 UJ	0.71 UJ	1.2 UJ	0.84 UJ	0.24 UJ	0.24 UJ	2.4 UJ
Bromodichloromethane	µg/m^3	3.3			0.19 U	0.94 U	0.56 U	0.56 U	0.56 U	0.56 U	0.94 U	0.66 U	0.19 U	0.19 U	1.9 U
Bromoform	µg/m^3	110			0.20 U	0.98 U	0.59 U	0.59 U	0.59 U	0.59 U	0.98 U	0.69 U	0.20 U	0.20 U	2.0 U
Bromomethane (Methyl bromide)	µg/m^3		22		0.047 U	0.23 U	0.14 U	0.14 U	0.14 U	0.14 U	0.23 U	0.16 U	0.047 U	0.047 U	0.47 U
Butane	µg/m^3				61	0.13 U	70	29	22	1.2 J	0.13 U	0.68 J	0.60 J	1.0 J	0.26 U
Carbon disulfide	µg/m^3		3100		28	1.0 U	2.2 J	3.1 J	2.1 J	0.87 J	5.1 J	34	2.9	0.72 J	2.1 U
Carbon tetrachloride	µg/m^3	20	440		0.37 J	1.0 U	0.62 U	0.62 U	0.62 U	0.62 U	1.0 U	0.75 J	0.45 J	0.45 J	2.1 U
Chlorobenzene	µg/m^3		220		0.092 U	0.46 U	0.27 U	0.27 U	0.27 U	0.27 U	0.46 U	0.32 U	0.092 U	0.092 U	3.2 J
Chlorodifluoromethane	µg/m^3		220000		0.12 U	5.9 J	2.7 J	0.36 U	0.36 U	0.36 U	0.60 U	0.42 U	0.12 U	0.12 U	1.2 U
Chloroethane	µg/m^3		44000		0.66 J	0.21 U	0.13 U	0.20 J	0.13 U	0.13 U	0.21 U	0.15 U	0.042 U	0.042 U	0.42 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	4000	0.15 U	0.76 U	0.45 U	0.45 U	0.45 U	0.45 U	0.76 U	0.53 U	0.15 U	0.15 U	1.5 U
Chloromethane (Methyl chloride)	µg/m^3		390		0.50 J	0.13 U	0.080 U	0.41 J	0.080 U	0.90 J	0.13 U	0.63 J	0.51 J	0.16 J	0.27 U
cis-1,2-Dichloroethene[b]	µg/m^3		260	1500	0.24 J	0.28 U	0.17 U	0.17 U	0.17 U	0.17 U	2.2 J	0.19 U	0.056 U	0.056 U	0.56 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88		0.073 U	0.36 U	0.22 U	0.22 U	0.22 U	0.22 U	0.36 U	0.25 U	0.073 U	0.073 U	0.73 U
Cyclohexane	µg/m^3		26000		7.6	0.67 U	13	0.40 U	0.40 U	0.40 U	0.67 U	0.49 J	0.28 J	0.33 J	1.3 U
Cymene (p-Isopropyltoluene)	µg/m^3				7.0	1.3 U	6.0	0.79 U	0.79 U	0.79 U	1.3 U	5.6	0.26 U	0.26 U	2.6 U
Dibromochloromethane	µg/m^3	4.5			0.18 U	0.89 U	0.53 U	0.53 U	0.53 U	0.53 U	0.89 U	0.63 U	0.18 U	0.18 U	1.8 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		3.6	2.7 J	5.2 J	2.9 J	2.3 J	3.2 J	11 J	3.0 J	3.3	3.8	3.0 J
Ethylbenzene	µg/m^3	49	4400	13000	5.7	0.48 U	6.1	0.29 U	0.29 U	0.29 U	0.48 U	1.1 J	0.096 U	0.69 J	1.9 J
Hexachlorobutadiene	µg/m^3	5.6			0.69 U	3.5 U	2.1 U	2.1 U	2.1 U	2.1 U	3.5 U	2.4 U	0.69 U	0.69 U	6.9 U
Hexane	µg/m^3		3100		9.5	0.46 U	20	0.43 J	0.94 J	0.41 J	0.46 U	0.52 J	0.28 J	0.64 J	0.92 U
Isopropyl alcohol	µg/m^3				6.6 J	0.45 U	0.27 U	3.6 J	0.27 U	3.3 J	0.45 U	11 J	4.4 J	4.8 J	0.91 U
Isopropyl benzene	µg/m^3		1800		20	0.76 U	3.6	0.46 U	0.46 U	0.46 U	0.76 U	0.53 U	0.15 U	0.15 U	1.5 U
m&p-Xylenes	µg/m^3		440	8000	20	1.0 U	17	0.62 U	0.62 U	0.62 U	1.0 U	1.8 J	0.27 J	1.7 J	7.1 J
Methyl methacrylate	µg/m^3		3100		3.1	0.27 U	5.2 J	0.16 U	0.16 U	0.16 U	0.27 U	0.19 U	0.053 U	0.053 U	0.53 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000		0.058 U	0.29 U	0.17 U	0.17 U	0.17 U	0.17 U	0.29 U	0.20 U	0.058 U	0.058 U	0.58 U
Methylene chloride	µg/m^3	12000	2600		0.62 U	1.6 U	1.1 U	0.68 U	0.66 J	1.1 U	0.23 U	0.83 U	0.23 U	0.42 U	0.45 U
Naphthalene	µg/m^3	3.6	13	15.2	14 J[ab]	2.3 U	1.5 J	1.3 UJ	1.3 UJ	1.3 UJ	2.3 U	4.5 J[a]	0.45 UJ	0.45 UJ	4.5 U

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 3207, Bldg 1, Probe A*	*Parcel 3207, Bldg 1, Probe B*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe E*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe D*
Sample ID:					*SS-38443-010712-JC-032*	*SS-38443-010712-JC-034*	*SS-38443-010712-JC-033*	*SS-38443-010712-JC-030*	*SS-38443-010712-JC-029*	*SS-38443-010712-JC-031*	*SS-38443-010712-JC-035*	*SS-38443-010712-JC-041*	*SS-38443-010712-JC-039*	*SS-38443-010712-JC-040*	*SS-38443-010712-JC-038*
Sample Date:		ELCR	HI		*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*	*1/7/2012*
									Duplicate					*Duplicate*	
	Units	*a*	*b*	*c*											
N-Butylbenzene	µg/m^3				0.30 U	1.5 U	0.90 U	0.90 U	0.90 U	0.90 U	1.5 U	1.1 U	0.30 U	0.30 U	3.0 U
N-Decane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3				7.0	0.20 U	11	0.12 U	0.74 J	0.12 U	0.20 U	0.99 J	0.24 J	0.46 J	0.41 U
Nonane	µg/m^3		880		-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3				1.7	1.2 U	3.0	0.73 U	0.73 U	0.73 U	1.2 U	0.86 U	0.25 U	0.25 U	2.5 U
N-Undecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
Octane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		440	8000	21	0.48 U	18	0.29 U	0.29 U	0.29 U	0.48 U	0.71 J	0.096 U	0.47 J	2.3 J
Pentane	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		0.13 U	0.64 U	0.38 U	0.38 U	0.38 U	0.38 U	0.64 U	0.45 U	0.13 U	0.13 U	1.3 U
tert-Butyl alcohol	µg/m^3				18	1.1 U	19 J	0.64 U	0.64 U	0.64 U	1.1 U	0.76 U	0.22 U	0.22 U	2.2 U
tert-Butylbenzene	µg/m^3				0.26 U	1.3 U	0.77 U	0.77 U	0.77 U	0.77 U	1.3 U	0.91 U	0.26 U	0.26 U	2.6 U
Tetrachloroethene	µg/m^3	470	180	1700	20	8.9	26	10	13	5.8	170	610[ab]	100	100	28
Tetrahydrofuran	µg/m^3				3.7 J	0.27 U	2.0 J	0.16 U	0.16 U	0.16 U	0.27 U	0.83 J	1.6 J	0.22 J	0.53 U
Toluene	µg/m^3		22000		20	0.34 U	37	1.4 J	0.95 J	0.67 J	0.62 J	2.1 J	0.46 J	7.3	0.68 U
trans-1,2-Dichloroethene	µg/m^3		260		0.13 U	0.63 U	0.38 U	0.38 U	0.38 U	0.38 U	1.4 J	0.45 U	0.13 U	0.13 U	1.3 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88		0.091 U	0.45 U	0.27 U	0.27 U	0.27 U	0.27 U	0.45 U	0.32 U	0.091 U	0.091 U	0.91 U
Trichloroethene	µg/m^3	30	8.8	100	5.4	0.81 U	5.2	2.7 J	2.6 J	2.0 J	44[ab]	200[abc]	5.3	5.7	1.6 U
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		2.7	1.8 J	7.3	1.6 J	1.4 J	1.6 J	17	2.2 J	11	11	18
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		0.63 J	0.38 U	0.85 J	0.52 J	0.50 J	0.56 J	0.38 U	0.82 J	0.71 J	0.75 J	0.77 U
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13		0.083 U	0.42 U	0.25 U	0.25 U	0.25 U	0.25 U	0.42 U	0.29 U	0.083 U	0.083 U	0.83 U
Vinyl chloride	µg/m^3	28	440	40	0.074 U	0.37 U	0.22 U	0.22 U	0.22 U	0.22 U	0.37 U	0.26 U	0.074 U	0.074 U	0.74 U
Xylenes (total)	µg/m^3		440		41	0.48 U	35	0.29 U	0.29 U	0.29 U	0.48 U	2.5 J	0.27 J	2.2	9.4
Fixed Gases															
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	-	-	0.064 U	-	-	0.066 U	-	-	0.080 U	-
Methane, field, unfiltered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 3207, Bldg 2, Probe E*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 4610, Bldg B*	*Parcel 4610, Bldg E, Probe A*	*Parcel 4610, Bldg E, Probe B*	*Parcel 5054, Bldg 1*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe B*
Sample ID:					*SS-38443-010712-JC-036*	*SS-38443-010712-JC-037*	*SS-38443-010512-JC-015*	*SS-38443-010512-JC-014*	*SS-38443-010412-GL-006*	*SS-38443-010412-GL-004*	*SS-38443-010412-JC-005*	*SS-38443-011012-JC-057*	*SS-38443-011012-JC-048*	*SS-38443-011012-JC-049*	*SS-38443-011012-JC-050*
Sample Date:		ELCR	HI		*1/7/2012*	*1/7/2012*	*1/5/2012*	*1/5/2012*	*1/4/2012*	*1/4/2012*	*1/4/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m³		1		0	0	0	0	0	0	0	38[b]	-	-	1
Total Risk	µg/m³	1E-5			8E-08	4E-08	4E-08	2E-07	3E-08	2E-08	0E+00	1E-04[a]	-	-	4E-06
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		22000		4.2	10	6.6	7.9	1.9 U	0.95 U	1.5 U	11 J	-	R	0.57 U
1,1,2,2-Tetrachloroethane	µg/m³	2.1			0.55 U	0.27 U	0.55 U	1.1 U	2.7 U	1.4 U	2.2 U	8.7 U	-	R	0.82 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88		0.21 U	0.10 U	0.21 U	0.41 U	1.0 U	0.52 U	0.83 U	3.3 U	-	R	0.31 U
1,1-Dichloroethane	µg/m³	77		630	0.28 U	0.14 U	0.28 U	0.57 U	1.4 U	0.71 U	1.1 U	4.5 U	-	R	2.1 J
1,1-Dichloroethene	µg/m³		880		0.24 U	0.12 U	0.24 U	0.48 U	1.2 U	0.59 U	0.95 U	3.8 U	-	R	0.36 U
1,2,4-Trichlorobenzene	µg/m³		8.8		0.74 U	0.37 U	0.74 U	1.5 U	3.7 U	1.9 U	3.0 U	12 U	-	R	1.1 U
1,2,4-Trimethylbenzene	µg/m³		31		0.51 U	0.26 U	0.51 U	1.0 U	2.6 U	1.3 U	2.0 U	8.1 U	-	R	0.76 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.20	39		0.28 U	0.14 U	0.28 U	0.55 U	1.4 U	0.69 U	1.1 U	4.4 U	-	R	0.41 U
1,2-Dichlorobenzene	µg/m³		880		0.58 U	0.29 U	0.58 U	1.2 U	2.9 U	1.4 U	2.3 U	9.1 U	-	R	0.86 U
1,2-Dichloroethane	µg/m³	4.7	31		0.25 U	0.13 U	0.25 U	0.50 U	1.3 U	0.63 U	1.0 U	4.0 U	-	R	0.38 U
1,2-Dichloroethene (total)	µg/m³				0.11 U	0.056 U	0.11 U	0.22 U	0.56 U	0.28 U	0.44 U	33	-	R	24
1,2-Dichloropropane	µg/m³	12	18		0.13 U	0.065 U	0.13 U	0.26 U	0.65 U	0.32 U	0.52 U	2.0 U	-	R	0.19 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				0.45 U	0.22 U	0.45 U	0.89 U	2.2 U	1.1 U	1.8 U	7.1 U	-	R	0.67 U
1,3,5-Trimethylbenzene	µg/m³				0.50 U	0.25 U	0.50 U	1.0 U	2.5 U	1.3 U	2.0 U	7.9 U	-	R	0.75 U
1,3-Butadiene	µg/m³	4.1	8.8		0.044 U	0.022 U	0.044 U	0.088 U	0.22 U	0.11 U	0.18 U	0.70 U	-	R	0.066 U
1,3-Dichlorobenzene[a]	µg/m³	11	3500		0.53 U	0.26 U	0.53 U	1.1 U	2.6 U	1.3 U	2.1 U	8.4 U	-	R	0.79 U
1,4-Dichlorobenzene	µg/m³	11	3500		0.53 U	0.26 U	0.53 U	1.1 U	2.6 U	1.3 U	2.1 U	8.4 U	-	R	0.79 U
1,4-Dioxane	µg/m³	16	13000		0.63 U	0.32 U	0.63 U	1.3 U	3.2 U	1.6 U	2.5 U	10 U	-	R	0.95 U
2,2,4-Trimethylpentane	µg/m³				0.34 U	0.17 U	0.34 U	0.67 U	1.7 U	0.84 U	1.3 U	5.3 U	-	R	0.50 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		2.5 J	1.0 J	0.76 J	1.4 J	0.50 U	0.25 U	0.40 U	1.6 U	-	R	0.15 U
2-Chlorotoluene	µg/m³				0.49 U	0.24 U	0.49 U	0.97 U	2.4 U	1.2 U	1.9 U	7.7 U	-	R	0.73 U
2-Hexanone	µg/m³		130		0.32 U	0.16 U	0.32 U	0.64 U	1.6 U	0.80 U	1.3 U	5.1 U	-	R	0.48 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³				0.52 U	0.26 U	0.52 U	1.0 U	2.6 U	1.3 U	2.1 U	8.2 U	-	R	0.77 U
4-Ethyl toluene	µg/m³				0.45 U	0.23 U	0.45 U	0.90 U	2.3 U	1.1 U	1.8 U	7.1 U	-	R	0.68 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		0.21 U	0.11 U	0.21 U	0.43 U	1.1 U	0.53 U	0.85 U	3.4 U	-	R	0.32 U
Acetone	µg/m³		140000		8.0 J	8.9 J	11 J	20 J	2.0 J	1.3 J	0.86 U	7.3 J	-	R	4.7 J
Allyl chloride	µg/m³	20	4.4		0.12 U	0.059 U	0.12 U	0.24 U	0.59 U	0.30 U	0.48 U	1.9 U	-	R	0.18 U
Benzene	µg/m³	16	130	40	0.12 U	0.062 J	0.12 U	0.23 U	0.58 U	0.29 U	0.46 U	1.8 U	-	R	0.17 U
Benzyl chloride	µg/m³	2.5	4.4		0.48 UJ	0.24 UJ	0.48 UJ	0.95 UJ	2.4 UJ	1.2 UJ	1.9 UJ	7.5 UJ	-	R	0.71 UJ
Bromodichloromethane	µg/m³	3.3			0.38 U	0.19 U	0.38 U	0.75 U	1.9 U	0.94 U	1.5 U	5.9 U	-	R	0.56 U
Bromoform	µg/m³	110			0.39 U	0.20 U	0.39 U	0.79 U	2.0 U	0.98 U	1.6 U	6.2 U	-	R	0.59 U
Bromomethane (Methyl bromide)	µg/m³		22		0.093 U	0.047 U	0.093 U	0.19 U	0.47 U	0.23 U	0.37 U	1.5 U	-	R	0.14 U
Butane	µg/m³				0.98 J	0.25 J	1.7 J	0.71 J	0.26 U	6.5	0.21 U	0.83 U	-	R	0.73 J
Carbon disulfide	µg/m³		3100		9.2	1.8	0.41 U	0.82 U	2.1 U	1.0 U	1.6 U	6.5 U	-	R	0.61 U
Carbon tetrachloride	µg/m³	20	440		0.42 U	0.21 U	0.42 U	0.83 U	2.1 U	1.0 U	1.7 U	6.6 U	-	R	0.62 U
Chlorobenzene	µg/m³		220		0.18 U	0.092 U	0.18 U	0.37 U	0.92 U	0.46 U	0.73 U	2.9 U	-	R	0.27 U
Chlorodifluoromethane	µg/m³		220000		0.24 U	0.12 U	0.24 U	0.48 U	1.2 U	0.60 U	0.96 U	3.8 U	-	R	0.36 U
Chloroethane	µg/m³		44000		0.084 U	0.042 U	0.084 U	0.17 U	0.42 U	0.21 U	0.34 U	1.3 U	-	R	0.13 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	4000	0.30 U	0.15 U	0.30 U	0.61 U	1.5 U	0.76 U	1.2 U	7.7 J[a]	-	R	2.2 J
Chloromethane (Methyl chloride)	µg/m³		390		0.42 J	0.027 U	0.054 U	0.11 U	0.27 U	0.13 U	0.21 U	0.85 U	-	R	0.080 U
cis-1,2-Dichloroethene[b]	µg/m³		260	1500	0.11 U	0.056 U	0.11 U	0.22 U	0.56 U	0.28 U	0.44 U	33	-	R	24
cis-1,3-Dichloropropene[c]	µg/m³	31	88		0.15 U	0.073 U	0.15 U	0.29 U	0.73 U	0.36 U	0.58 U	2.3 U	-	R	0.22 U
Cyclohexane	µg/m³		26000		0.27 U	0.13 U	0.27 U	0.54 U	1.3 U	0.67 U	1.1 U	4.2 U	-	R	0.40 U
Cymene (p-Isopropyltoluene)	µg/m³				0.53 U	0.26 U	0.53 U	1.1 U	2.6 U	1.3 U	2.1 U	8.3 U	-	R	0.79 U
Dibromochloromethane	µg/m³	4.5			0.36 U	0.18 U	0.36 U	0.72 U	1.8 U	0.89 U	1.4 U	5.7 U	-	R	0.53 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		3.5 J	5.6	5.1	7.5 J	1.9 U	4.4 J	2.4 J	5.9 U	-	R	2.2 J
Ethylbenzene	µg/m³	49	4400	13000	0.19 U	0.15 J	0.21 J	0.38 U	0.96 U	0.48 U	0.76 U	3.0 U	-	R	0.46 J
Hexachlorobutadiene	µg/m³	5.6			1.4 U	0.69 U	1.4 U	2.8 U	6.9 U	3.5 U	5.5 U	22 U	-	R	2.1 U
Hexane	µg/m³		3100		0.21 J	0.11 J	0.37 J	0.37 U	0.92 U	0.90 J	0.73 U	2.9 U	-	R	0.27 U
Isopropyl alcohol	µg/m³				4.0 J	3.2 J	0.18 U	0.36 U	0.91 U	0.45 U	0.73 U	2.9 U	-	R	0.27 U
Isopropyl benzene	µg/m³		1800		0.30 U	0.15 U	0.30 U	0.61 U	1.5 U	0.76 U	1.2 U	4.8 U	-	R	0.46 U
m&p-Xylenes	µg/m³		440	8000	0.42 U	0.30 J	0.53 J	0.83 U	2.1 U	1.0 U	1.7 U	6.6 U	-	R	1.9 J
Methyl methacrylate	µg/m³		3100		0.11 U	0.053 U	0.11 U	0.21 U	0.53 U	0.27 U	0.43 U	1.7 U	-	R	0.68 J
Methyl tert butyl ether (MTBE)	µg/m³	470	13000		0.12 U	0.058 U	0.12 U	0.23 U	0.58 U	0.29 U	0.46 U	1.8 U	-	R	0.17 U
Methylene chloride	µg/m³	12000	2600		0.090 U	0.045 U	0.50 J	0.18 U	1.7 J	0.23 U	0.36 U	1.4 U	-	R	0.53 U
Naphthalene	µg/m³	3.6	13	15.2	0.90 U	0.45 U	0.90 UJ	1.8 UJ	4.5 UJ	2.3 UJ	3.6 UJ	14 UJ	-	R	1.3 UJ

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 3207, Bldg 2, Probe E*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 4610, Bldg B*	*Parcel 4610, Bldg E, Probe A*	*Parcel 4610, Bldg E, Probe B*	*Parcel 5054, Bldg 1*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe B*
Sample ID:					*SS-38443-010712-JC-036*	*SS-38443-010712-JC-037*	*SS-38443-010512-JC-015*	*SS-38443-010512-JC-014*	*SS-38443-010412-GL-006*	*SS-38443-010412-GL-004*	*SS-38443-010412-JC-005*	*SS-38443-011012-JC-057*	*SS-38443-011012-JC-048*	*SS-38443-011012-JC-049*	*SS-38443-011012-JC-050*
Sample Date:		ELCR	HI		*1/7/2012*	*1/7/2012*	*1/5/2012*	*1/5/2012*	*1/4/2012*	*1/4/2012*	*1/4/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*
	Units	*a*	*b*	*c*											
N-Butylbenzene	µg/m^3				0.60 U	0.30 U	0.60 U	1.2 U	3.0 U	1.5 U	2.4 U	9.5 U	-	R	0.90 U
N-Decane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3				0.17 J	0.041 U	1.3 J	0.16 U	0.41 U	0.20 U	0.33 U	1.3 U	-	R	12
Nonane	µg/m^3		880		-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3				0.49 U	0.25 U	0.49 U	0.98 U	2.5 U	1.2 U	2.0 U	7.8 U	-	R	0.73 U
N-Undecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
Octane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		440	8000	0.19 U	0.096 U	0.19 U	0.38 U	0.96 U	0.48 U	0.76 U	3.0 U	-	R	1.0 J
Pentane	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		0.26 U	0.13 U	0.26 U	0.51 U	1.3 U	0.64 U	1.0 U	4.0 U	-	R	0.38 U
tert-Butyl alcohol	µg/m^3				0.43 U	8.3 J	0.43 U	0.86 U	2.2 U	1.1 U	1.7 U	6.8 U	-	R	0.64 U
tert-Butylbenzene	µg/m^3				0.52 U	0.26 U	0.52 U	1.0 U	2.6 U	1.3 U	2.1 U	8.2 U	-	R	0.77 U
Tetrachloroethene	µg/m^3	470	180	1700	37	4.9	19	71	12 J	8.5	0.60 U	77	-	R	2.8 J
Tetrahydrofuran	µg/m^3				4.5 J	0.053 U	0.11 U	0.21 U	0.53 U	0.27 U	0.42 U	1.7 U	-	R	0.16 U
Toluene	µg/m^3		22000		0.60 J	0.57 J	4.5	3.5	0.68 U	1.5 J	0.54 U	2.1 U	-	R	2.6
trans-1,2-Dichloroethene	µg/m^3		260		0.25 U	0.13 U	0.25 U	0.51 U	1.3 U	0.63 U	1.0 U	4.0 U	-	R	0.38 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88		0.18 U	0.091 U	0.18 U	0.36 U	0.91 U	0.45 U	0.73 U	2.9 U	-	R	0.27 U
Trichloroethene	µg/m^3	30	8.8	100	0.32 U	0.59 J	0.32 U	0.64 U	1.6 U	0.81 U	1.3 U	**3300[abc]**	-	R	**120[abc]**
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		23	13	12	24	1.9 U	2.7 J	1.5 U	6.0 U	-	R	1.2 J
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		0.15 U	0.56 J	4.5	0.59 J	0.77 U	59	0.61 U	2.4 U	-	R	0.46 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13		0.17 U	0.083 U	0.17 U	0.33 U	0.83 U	0.42 U	0.66 U	2.6 U	-	R	0.25 U
Vinyl chloride	µg/m^3	28	440	40	0.15 U	0.074 U	0.15 U	0.30 U	0.74 U	0.37 U	0.59 U	2.3 U	-	R	0.22 U
Xylenes (total)	µg/m^3		440		0.19 U	0.30 J	0.53 J	0.38 U	0.96 U	0.48 U	0.76 U	3.0 U	-	R	3.0
Fixed Gases															
Helium	%				-	-	-	-	-	-	-	-	0.17 U	-	-
Methane	%	0.5	0.5	0.5	-	-	0.066 U	-	-	-	0.065 U	-	-	R	0.064 U
Methane, field, unfiltered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	**6.6[abc]**	**7.6 Dup 7.6[abc]**	0.0 Dup 0.0

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 5*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe B*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe D*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe A*
Sample ID:					*SS-38443-011012-JC-055*	*SS-38443-011012-JC-056*	*SS-38443-011012-JC-054*	*SS-38443-011112-JC-069*	*SS-38443-011112-JC-065*	*SS-38443-011112-JC-066*	*SS-38443-011112-JC-064*	*SS-38443-011112-JC-067*	*SS-38443-011112-JC-068*	*SS-38443-011112-JC-061*	*SS-38443-011112-JC-062*
Sample Date:		ELCR	HI		*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*
						Duplicate							*Duplicate*		*Duplicate*
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m^3		1		3[b]	-	15[b]	83[b]	2[b]	1	25[b]	0	-	112[b]	-
Total Risk	µg/m^3	1E-5			9E-06	-	5E-05[a]	3E-04[a]	8E-06	3E-06	8E-05[a]	1E-06	-	3E-04[a]	-
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m^3		22000		40	39	24	15 U	1.6 J	1.1 J	3.8 U	0.19 U	0.28 U	64 J	68 J
1,1,2,2-Tetrachloroethane	µg/m^3	2.1			0.48 U	0.52 U	2.7 U	22 U	0.82 U	0.41 U	5.4 U	0.27 U	0.41 U	27 U	27 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88		0.18 U	0.20 U	1.0 U	8.4 U	0.31 U	0.16 U	2.0 U	0.10 U	0.15 U	10 U	10 U
1,1-Dichloroethane	µg/m^3	77		630	0.81 J	0.74 J	14	11 U	0.42 U	0.31 J	2.8 U	0.14 U	0.21 U	14 U	14 U
1,1-Dichloroethene	µg/m^3		880		0.21 U	0.23 U	1.2 U	9.6 U	0.36 U	0.18 U	2.3 U	0.12 U	0.18 U	12 U	12 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		0.65 U	0.71 U	3.7 U	30 U	1.1 U	0.56 U	7.3 U	0.37 U	0.55 U	37 U	37 U
1,2,4-Trimethylbenzene	µg/m^3		31		0.44 U	0.49 U	2.6 U	21 U	0.94 J	0.38 U	5.0 U	1.0	0.55 J	25 U	26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39		0.24 U	0.26 U	1.4 U	11 U	0.41 U	0.21 U	2.7 U	0.14 U	0.21 U	14 U	14 U
1,2-Dichlorobenzene	µg/m^3		880		0.50 U	0.55 U	2.9 U	23 U	0.86 U	0.43 U	5.7 U	0.29 U	0.43 U	29 U	29 U
1,2-Dichloroethane	µg/m^3	4.7	31		0.22 U	0.24 U	1.3 U	10 U	0.38 U	0.19 U	2.5 U	0.13 U	0.19 U	12 U	13 U
1,2-Dichloroethene (total)	µg/m^3				0.35 J	0.38 J	9.8	150	3.9	7.3	62	0.24 J	0.083 U	5.5 U	5.5 U
1,2-Dichloropropane	µg/m^3	12	18		0.11 U	0.12 U	0.65 U	5.2 U	0.19 U	0.097 U	1.3 U	0.065 U	0.096 U	6.4 U	6.5 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				5.3	4.8	9.1 J	18 U	0.67 U	0.34 U	4.4 U	0.22 U	0.33 U	22 U	22 U
1,3,5-Trimethylbenzene	µg/m^3				0.44 U	0.48 U	2.5 U	20 U	0.75 U	0.38 U	4.9 U	0.29 J	0.37 U	25 U	25 U
1,3-Butadiene	µg/m^3	4.1	8.8		0.038 U	0.042 U	0.22 U	1.8 U	0.066 U	0.033 U	0.44 U	0.022 U	0.033 U	2.2 U	2.2 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500		0.46 U	0.50 U	2.6 U	21 U	0.79 U	0.40 U	5.2 U	0.26 U	0.39 U	26 U	26 U
1,4-Dichlorobenzene	µg/m^3	11	3500		0.46 U	0.50 U	2.6 U	21 U	0.79 U	0.40 U	5.2 U	0.26 U	0.39 U	26 U	26 U
1,4-Dioxane	µg/m^3	16	13000		0.55 U	0.60 U	3.2 U	26 U	0.95 U	0.48 U	6.2 U	0.32 U	0.47 U	32 U	32 U
2,2,4-Trimethylpentane	µg/m^3				0.29 U	0.32 U	1.7 U	14 U	0.50 U	0.25 U	3.3 U	0.17 U	0.25 U	17 U	17 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		0.087 U	0.73 J	0.50 U	4.0 U	0.43 J	0.87 J	0.99 U	1.4 J	0.81 J	5.0 U	5.0 U
2-Chlorotoluene	µg/m^3				0.42 U	0.46 U	2.4 U	20 U	0.73 U	0.37 U	4.8 U	0.24 U	0.36 U	24 U	24 U
2-Hexanone	µg/m^3		130		0.28 U	0.30 U	1.6 U	13 U	0.48 U	0.24 U	3.1 U	0.16 U	0.24 U	16 U	16 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				0.45 U	0.49 U	2.6 U	21 U	0.77 U	0.39 U	5.1 U	0.26 U	0.38 U	26 U	26 U
4-Ethyl toluene	µg/m^3				0.39 U	0.43 U	2.3 U	18 U	0.68 U	0.34 U	4.5 U	0.27 J	0.34 U	23 U	23 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		0.19 U	0.20 U	1.1 U	8.6 U	0.32 U	0.16 U	2.1 U	0.11 U	0.16 U	11 U	11 U
Acetone	µg/m^3		140000		1.2 J	4.0 J	8.3 J	31 J	15 J	17 J	24 J	18	19	24 J	24 J
Allyl chloride	µg/m^3	20	4.4		0.10 U	0.11 U	0.59 U	4.8 U	0.18 U	0.089 U	1.2 U	0.059 U	0.089 U	5.9 U	5.9 U
Benzene	µg/m^3	16	130	40	0.10 U	0.11 U	1.3 J	4.6 U	0.43 J	0.25 J	1.1 U	0.55 J	0.56 J	5.7 U	5.7 U
Benzyl chloride	µg/m^3	2.5	4.4		0.41 UJ	0.45 UJ	2.4 UJ	19 UJ	0.71 U	0.36 UJ	4.7 UJ	0.24 UJ	0.35 UJ	24 UJ	24 UJ
Bromodichloromethane	µg/m^3	3.3			0.33 U	0.36 U	1.9 U	15 U	0.56 U	0.28 U	3.7 U	0.19 U	0.28 U	19 U	19 U
Bromoform	µg/m^3	110			0.34 U	0.37 U	2.0 U	16 U	0.59 U	0.29 U	3.9 U	0.20 U	0.29 U	20 U	20 U
Bromomethane (Methyl bromide)	µg/m^3		22		0.081 U	0.089 U	0.47 U	3.8 U	0.14 U	0.070 U	0.92 U	0.047 U	0.069 U	4.6 U	4.7 U
Butane	µg/m^3				0.045 U	0.050 U	4.8 J	2.1 U	0.078 U	0.039 U	0.52 U	5.2	6.1	2.6 U	2.6 U
Carbon disulfide	µg/m^3		3100		0.36 U	0.39 U	2.1 U	17 U	4.8	3.5	4.0 U	0.47 J	0.31 U	20 U	21 U
Carbon tetrachloride	µg/m^3	20	440		0.36 U	0.39 U	4.2 J	17 U	0.62 U	0.31 U	4.1 U	0.42 J	0.44 J	21 U	21 U
Chlorobenzene	µg/m^3		220		0.16 U	0.17 U	0.92 U	7.4 U	0.27 U	0.14 U	1.8 U	0.092 U	0.14 U	9.1 U	9.2 U
Chlorodifluoromethane	µg/m^3		220000		0.49 J	0.23 U	1.2 U	9.7 U	0.36 U	0.18 U	2.4 U	0.12 U	0.18 U	12 U	12 U
Chloroethane	µg/m^3		44000		0.073 U	0.080 U	0.42 U	3.4 U	0.13 U	0.063 U	0.83 U	0.042 U	0.063 U	4.2 U	4.2 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	4000	0.93 J	0.92 J	8.8 J[a]	80[a]	3.6	4.3	18 J[a]	0.91 J	0.98 J	22 J[a]	21 J[a]
Chloromethane (Methyl chloride)	µg/m^3		390		0.047 U	0.051 U	0.27 U	2.2 U	0.35 J	0.35 J	0.53 U	0.027 U	0.040 U	2.7 U	2.7 U
cis-1,2-Dichloroethene[b]	µg/m^3		260	1500	0.35 J	0.38 J	9.8	110	1.9 J	6.6	40	0.056 U	0.083 U	5.5 U	5.5 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88		0.13 U	0.14 U	0.73 U	5.9 U	0.22 U	0.11 U	1.4 U	0.073 U	0.11 U	7.2 U	7.3 U
Cyclohexane	µg/m^3		26000		0.23 U	0.26 U	1.3 U	11 U	0.40 U	0.29 J	2.6 U	0.39 J	0.41 J	13 U	13 U
Cymene (p-Isopropyltoluene)	µg/m^3				0.46 U	0.50 U	2.6 U	21 U	1.1 J	0.40 U	5.2 U	0.26 U	0.39 U	26 U	26 U
Dibromochloromethane	µg/m^3	4.5			0.31 U	0.34 U	1.8 U	14 U	0.53 U	0.27 U	3.5 U	0.18 U	0.27 U	18 U	18 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4.2 J	3.9 J	3.0 J	15 U	9.0	37	13 J	3.1	3.2 J	19 U	19 U
Ethylbenzene	µg/m^3	49	4400	13000	0.17 U	0.18 U	1.1 J	7.7 U	3.5	0.44 J	1.9 U	0.88	0.78 J	9.5 U	9.5 U
Hexachlorobutadiene	µg/m^3	5.6			1.2 U	1.3 U	6.9 U	56 U	2.1 U	1.0 U	14 U	0.69 U	1.0 U	69 U	69 U
Hexane	µg/m^3		3100		0.16 U	0.20 J	0.92 U	7.4 U	0.27 U	0.25 J	1.8 U	1.2	1.5	9.1 U	9.2 U
Isopropyl alcohol	µg/m^3				0.16 U	0.17 U	0.91 U	7.3 U	0.27 U	5.7 J	1.8 U	2.4 J	5.2 J	9.1 U	9.1 U
Isopropyl benzene	µg/m^3		1800		0.27 U	0.29 U	1.5 U	12 U	0.61 J	0.23 U	3.0 U	0.32 J	0.24 J	15 U	15 U
m&p-Xylenes	µg/m^3		440	8000	0.36 U	0.40 U	3.6 J	17 U	4.9 J	1.8 J	4.1 U	1.9 J	1.4 J	21 U	21 U
Methyl methacrylate	µg/m^3		3100		0.093 U	0.10 U	0.53 U	4.3 U	0.16 U	0.080 U	1.0 U	0.053 U	0.079 U	5.3 U	5.3 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000		0.10 U	0.11 U	0.58 U	4.6 U	0.17 U	0.087 U	1.1 U	0.058 U	0.086 U	5.7 U	5.8 U
Methylene chloride	µg/m^3	12000	2600		0.079 U	0.55 U	0.45 U	3.6 U	0.14 U	0.42 J	0.89 U	0.43 J	0.50 J	27 J	21 J
Naphthalene	µg/m^3	3.6	13	15.2	0.78 UJ	0.86 UJ	8.6 J[a]	36 UJ	1.3 U	0.68 UJ	8.9 UJ	0.45 UJ	0.69 J	45 UJ	45 UJ

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 5*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe B*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe D*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe A*
Sample ID:					*SS-38443-011012-JC-055*	*SS-38443-011012-JC-056*	*SS-38443-011012-JC-054*	*SS-38443-011112-JC-069*	*SS-38443-011112-JC-065*	*SS-38443-011112-JC-066*	*SS-38443-011112-JC-064*	*SS-38443-011112-JC-067*	*SS-38443-011112-JC-068*	*SS-38443-011112-JC-061*	*SS-38443-011112-JC-062*
Sample Date:					*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/11/2012*
		ELCR	HI			*Duplicate*							*Duplicate*		*Duplicate*
	Units	*a*	*b*	*c*											
N-Butylbenzene	µg/m^3				0.53 U	0.57 U	3.0 U	24 U	0.90 U	0.45 U	5.9 U	0.30 U	0.45 U	30 U	30 U
N-Decane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3				0.071 U	0.078 U	0.41 U	3.3 U	4.2	1.0 J	9.4 J	2.0	2.4	4.1 U	4.1 U
Nonane	µg/m^3		880		-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3				0.43 U	0.47 U	2.5 U	20 U	0.73 U	0.37 U	4.8 U	0.25 U	0.37 U	24 U	25 U
N-Undecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
Octane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		440	8000	0.17 U	0.18 U	0.96 U	7.7 U	1.7 J	0.66 J	1.9 U	0.80 J	0.54 J	9.5 U	9.5 U
Pentane	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		0.22 U	0.24 U	1.3 U	10 U	0.38 U	0.19 U	2.5 U	0.13 U	0.19 U	13 U	13 U
tert-Butyl alcohol	µg/m^3				0.37 U	0.41 U	2.2 U	17 U	0.64 U	0.32 U	4.2 U	1.3 J	0.32 U	21 U	22 U
tert-Butylbenzene	µg/m^3				0.45 U	0.49 U	2.6 U	21 U	0.77 U	0.39 U	5.1 U	0.26 U	0.38 U	26 U	26 U
Tetrachloroethene	µg/m^3	470	180	1700	97	96	21	58 J	**510^{ab}**	140	57	4.0	4.2	**320^{b}**	**370^{b}**
Tetrahydrofuran	µg/m^3				0.092 U	0.10 U	0.53 U	4.3 U	0.16 U	0.080 U	1.0 U	0.053 U	0.079 U	5.3 U	5.3 U
Toluene	µg/m^3		22000		0.22 J	0.41 J	0.68 U	280	290	150	30	1.9	1.4	35 J	35 J
trans-1,2-Dichloroethene	µg/m^3		260		0.22 U	0.24 U	1.3 U	44 J	2.0 J	0.65 J	23	0.24 J	0.19 U	13 U	13 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88		0.16 U	0.17 U	0.91 U	7.3 U	0.27 U	0.14 U	1.8 U	0.091 U	0.14 U	9.0 U	9.1 U
Trichloroethene	µg/m^3	30	8.8	100	**260^{abc}**	**250^{abc}**	**1300^{abc}**	**7300^{abc}**	**170^{abc}**	**61^{ab}**	**2200^{abc}**	**29^{b}**	**30^{b}**	**9900^{abc}**	**9700^{abc}**
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		1.4 J	1.3 J	1.9 U	15 U	0.57 U	0.93 J	3.8 U	1.4	1.5 J	31 J	27 J
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		0.45 J	0.46 J	0.77 U	6.2 U	0.25 J	0.35 J	1.5 U	0.53 J	0.56 J	7.6 U	7.7 U
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13		0.14 U	0.16 U	0.83 U	6.7 U	0.25 U	0.12 U	1.6 U	0.083 U	0.12 U	8.3 U	8.3 U
Vinyl chloride	µg/m^3	28	440	40	0.13 U	0.14 U	0.74 U	6.0 U	0.22 U	0.11 U	1.5 U	0.074 U	0.11 U	7.4 U	7.4 U
Xylenes (total)	µg/m^3		440		0.17 U	0.18 U	3.6 J	7.7 U	6.6	2.5	1.9 U	2.7	1.9	9.5 U	9.5 U
Fixed Gases															
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.066 U	0.057 U	-	-	0.068 U	-	-	-	-	-	-
Methane, field, unfiltered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5172 / 1 / A Overstreet*	*Parcel 5172 / 1 / B Overstreet*	*Parcel 5172 / 1 / A S&J*	*Parcel 5172 / 1 / A S&J*	*Parcel 5172 / 1 / B S&J*	*Parcel 5172 / 1 / B S&J*	*Parcel 5172 / 1 / C S&J*	*Parcel 5172 / 1 / D S&J*	*Parcel 5172, Bldg 2, Probe A*
Sample ID:					*SS-38443-011112-JC-063*	*SS-38443-010612-JC-022*	*SS-38443-010612-JC-021*	*SS-38443-010612-JC-024*	*SS-38443-010612-JC-023*	*SS-38443-010612-JC-025*	*SS-38443-010612-JC-025*	*SS-38443-010612-JC-026*	*SS-38443-010612-JC-027*	*SS-38443-010612-JC-018*
Sample Date:		ELCR	HI		*1/11/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/9/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*
									Duplicate					
	Units	*a*	*b*	*c*										
Cumulative Risk														
Total HI	µg/m^3		1		0	**148[b]**	**171[b]**	**81[b]**	-	**341[b]**	-	**14[b]**	**72[b]**	0
Total Risk	µg/m^3	1E-5			2E-06	**5E-04[a]**	**6E-04[a]**	**2E-04[a]**	-	**1E-03[a]**	-	**4E-05[a]**	**2E-04[a]**	**3E-05[a]**
Volatile Organic Compounds														
1,1,1-Trichloroethane	µg/m^3		22000		14 U	47 J	28 U	19 U	R	49 U	-	1.9 U	40	3.8 U
1,1,2,2-Tetrachloroethane	µg/m^3	2.1			21 U	41 U	41 U	27 U	R	70 U	-	2.7 U	8.3 U	5.5 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88		7.8 U	16 U	15 U	10 U	R	27 U	-	1.0 U	3.1 U	2.1 U
1,1-Dichloroethane	µg/m^3	77		630	11 U	21 U	21 U	14 U	R	36 U	-	1.4 U	4.3 U	**2000[ac]**
1,1-Dichloroethene	µg/m^3		880		8.9 U	18 U	18 U	12 U	R	30 U	-	1.2 U	3.6 U	2.4 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		28 U	56 U	55 U	37 U	R	95 U	-	3.7 U	11 U	7.4 U
1,2,4-Trimethylbenzene	µg/m^3		31		**87[b]**	38 U	38 U	26 U	R	65 U	-	2.6 U	7.7 U	5.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39		10 U	21 U	20 U	14 U	R	35 U	-	1.4 U	4.2 U	2.8 U
1,2-Dichlorobenzene	µg/m^3		880		22 U	43 U	43 U	29 U	R	74 U	-	2.9 U	8.7 U	5.7 U
1,2-Dichloroethane	µg/m^3	4.7	31		9.4 U	19 U	19 U	13 U	R	32 U	-	1.3 U	3.8 U	2.5 U
1,2-Dichloroethene (total)	µg/m^3				4.2 U	2500	1900	140	R	3100	-	2.6 J	1600	19
1,2-Dichloropropane	µg/m^3	12	18		4.9 U	9.7 U	9.6 U	6.5 U	R	17 U	-	0.65 U	1.9 U	1.3 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				17 U	34 U	33 U	22 U	R	57 U	-	2.2 U	6.7 U	4.5 U
1,3,5-Trimethylbenzene	µg/m^3				27 J	38 U	37 U	25 U	R	64 U	-	2.5 U	7.5 U	5.0 U
1,3-Butadiene	µg/m^3	4.1	8.8		1.7 U	3.3 U	3.3 U	2.2 U	R	5.7 U	-	0.22 U	0.67 U	0.44 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500		20 U	40 U	39 U	26 U	R	68 U	-	2.6 U	8.0 U	5.3 U
1,4-Dichlorobenzene	µg/m^3	11	3500		20 U	40 U	39 U	26 U	R	68 U	-	2.6 U	8.0 U	5.3 U
1,4-Dioxane	µg/m^3	16	13000		24 U	48 U	47 U	32 U	R	81 U	-	3.2 U	9.5 U	6.3 U
2,2,4-Trimethylpentane	µg/m^3				250	25 U	25 U	17 U	R	43 U	-	1.7 U	5.1 U	3.3 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		190	7.5 U	7.4 U	5.0 U	R	13 U	-	2.9 J	1.5 U	24 J
2-Chlorotoluene	µg/m^3				18 U	37 U	36 U	24 U	R	62 U	-	2.4 U	7.3 U	4.8 U
2-Hexanone	µg/m^3		130		12 U	24 U	24 U	16 U	R	41 U	-	1.7 J	4.8 U	3.2 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				19 U	39 U	38 U	26 U	R	66 U	-	2.6 U	7.8 U	5.1 U
4-Ethyl toluene	µg/m^3				32 J	34 U	33 U	23 U	R	58 U	-	2.3 U	6.8 U	4.5 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		29 J	16 U	16 U	11 U	R	27 U	-	1.1 U	3.2 U	2.1 U
Acetone	µg/m^3		140000		4500	16 U	16 U	27 J	R	98 J	-	5.8 J	6.6 J	2.1 U
Allyl chloride	µg/m^3	20	4.4		4.5 U	8.9 U	8.8 U	5.9 U	R	15 U	-	0.59 U	1.8 U	1.2 U
Benzene	µg/m^3	16	130	40	4.3 U	8.6 U	8.5 U	5.8 U	R	15 U	-	0.58 U	1.7 U	6.2 J
Benzyl chloride	µg/m^3	2.5	4.4		18 UJ	36 U	35 U	24 U	R	61 UJ	-	2.4 U	7.2 U	4.7 U
Bromodichloromethane	µg/m^3	3.3			14 U	28 U	28 U	19 U	R	48 U	-	1.9 U	5.6 U	3.7 U
Bromoform	µg/m^3	110			15 U	29 U	29 U	20 U	R	50 U	-	2.0 U	5.9 U	3.9 U
Bromomethane (Methyl bromide)	µg/m^3		22		3.5 U	7.0 U	6.9 U	4.7 U	R	12 U	-	0.47 U	1.4 U	0.93 U
Butane	µg/m^3				1400	3.9 U	3.9 U	2.6 U	R	6.7 U	-	0.26 U	0.79 U	430
Carbon disulfide	µg/m^3		3100		15 U	31 U	30 U	21 U	R	53 U	-	2.1 U	6.2 U	51
Carbon tetrachloride	µg/m^3	20	440		16 U	31 U	31 U	21 U	R	53 U	-	2.1 U	6.2 U	4.1 U
Chlorobenzene	µg/m^3		220		6.9 U	14 U	14 U	9.2 U	R	24 U	-	0.92 U	2.8 U	1.8 U
Chlorodifluoromethane	µg/m^3		220000		9.0 U	18 U	18 U	12 U	R	31 U	-	1.2 U	3.6 U	10 J
Chloroethane	µg/m^3		44000		3.2 U	6.3 U	6.2 U	4.2 U	R	11 U	-	0.42 U	1.3 U	0.84 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	4000	11 U	**250[a]**	**350[a]**	**43 J[a]**	R	**120 J[a]**	-	3.8 J	**120[a]**	3.0 U
Chloromethane (Methyl chloride)	µg/m^3		390		2.0 U	4.0 U	4.0 U	2.7 U	R	6.9 U	-	0.27 U	0.81 U	0.53 U
cis-1,2-Dichloroethene[b]	µg/m^3		260	1500	4.2 U	**2300[bc]**	**1800[bc]**	100	R	**2300[bc]**	-	2.6 J	**970[b]**	10 J
cis-1,3-Dichloropropene[c]	µg/m^3	31	88		5.5 U	11 U	11 U	7.3 U	R	19 U	-	0.73 U	2.2 U	1.4 U
Cyclohexane	µg/m^3		26000		11 J	20 U	20 U	13 U	R	34 U	-	1.3 U	4.0 U	17
Cymene (p-Isopropyltoluene)	µg/m^3				20 U	40 U	39 U	26 U	R	67 U	-	2.6 U	7.9 U	5.2 U
Dibromochloromethane	µg/m^3	4.5			13 U	27 U	26 U	18 U	R	46 U	-	1.8 U	5.4 U	3.6 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		14 U	28 U	28 U	19 U	R	48 U	-	3.1 J	5.7 U	15 J
Ethylbenzene	µg/m^3	49	4400	13000	**98[a]**	14 U	14 U	9.6 U	R	24 U	-	0.96 U	2.9 U	1.9 U
Hexachlorobutadiene	µg/m^3	5.6			52 U	100 U	100 U	69 U	R	180 U	-	6.9 U	21 U	14 U
Hexane	µg/m^3		3100		6.9 U	14 U	14 U	9.2 U	R	23 U	-	0.92 U	2.8 U	22
Isopropyl alcohol	µg/m^3				6.8 U	14 U	13 U	9.1 U	R	23 U	-	3.7 J	2.7 U	1.8 U
Isopropyl benzene	µg/m^3		1800		11 U	23 U	23 U	15 U	R	39 U	-	1.5 U	4.6 U	3.0 U
m&p-Xylenes	µg/m^3		440	8000	400	31 U	31 U	21 U	R	53 U	-	2.1 U	6.3 U	4.1 U
Methyl methacrylate	µg/m^3		3100		4.0 U	8.0 U	7.9 U	5.3 U	R	14 U	-	0.53 U	1.6 U	1.1 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000		4.3 U	8.7 U	8.5 U	5.8 U	R	15 U	-	0.58 U	1.7 U	1.1 U
Methylene chloride	µg/m^3	12000	2600		360	23 J	22 J	14 J	R	41 U	-	1.5 J	4.7 J	3.5 J
Naphthalene	µg/m^3	3.6	13	15.2	34 UJ	68 U	67 U	45 U	R	120 UJ	-	4.5 U	14 U	9.0 U

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5172 / 1 / A Overstreet*	*Parcel 5172 / 1 / B Overstreet*	*Parcel 5172 / 1 / A S&J*	*Parcel 5172 / 1 / A S&J*	*Parcel 5172 / 1 / B S&J*	*Parcel 5172 / 1 / B S&J*	*Parcel 5172 / 1 / C S&J*	*Parcel 5172 / 1 / D S&J*	*Parcel 5172, Bldg 2, Probe A*
Sample ID:					*SS-38443-011112-JC-063*	*SS-38443-010612-JC-022*	*SS-38443-010612-JC-021*	*SS-38443-010612-JC-024*	*SS-38443-010612-JC-023*	*SS-38443-010612-JC-025*	*SS-38443-010612-JC-025*	*SS-38443-010612-JC-026*	*SS-38443-010612-JC-027*	*SS-38443-010612-JC-018*
Sample Date:		ELCR	HI	Non-residential	*1/11/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/9/2012*	*1/6/2012*	*1/6/2012*	*1/6/2012*
									Duplicate					
	Units	*a*	*b*	*c*										
N-Butylbenzene	µg/m^3				23 U	45 U	45 U	30 U	R	77 U	-	3.0 U	9.1 U	6.0 U
N-Decane	µg/m^3				-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3				-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3				360	6.1 U	6.1 U	4.1 U	R	10 U	-	0.41 U	1.2 U	0.82 U
Nonane	µg/m^3		880		-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3				18 U	37 U	36 U	25 U	R	63 U	-	2.5 U	7.4 U	4.9 U
N-Undecane	µg/m^3				-	-	-	-	-	-	-	-	-	-
Octane	µg/m^3				-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		440	8000	120	14 U	14 U	9.6 U	R	24 U	-	0.96 U	2.9 U	1.9 U
Pentane	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		51 J	19 U	19 U	13 U	R	33 U	-	1.3 U	3.8 U	2.5 U
tert-Butyl alcohol	µg/m^3				16 U	32 U	32 U	22 U	R	55 U	-	2.2 U	6.5 U	4.3 U
tert-Butylbenzene	µg/m^3				19 U	39 U	38 U	26 U	R	66 U	-	2.6 U	7.8 U	5.1 U
Tetrachloroethene	µg/m^3	470	180	1700	5.6 U	26 J	33 J	39 J	R	63 J	-	190[b]	24 J	1.5 U
Tetrahydrofuran	µg/m^3				4.0 U	8.0 U	7.9 U	5.3 U	R	14 U	-	0.53 U	1.6 U	1.1 U
Toluene	µg/m^3		22000		6300	10 U	10 U	6.8 U	R	17 U	-	17	21 J	2.6 J
trans-1,2-Dichloroethene	µg/m^3		260		9.5 U	280[b]	160	35 J	R	850[b]	-	1.3 U	590[b]	8.8 J
trans-1,3-Dichloropropene[d]	µg/m^3	31	88		6.8 U	14 U	13 U	9.1 U	R	23 U	-	0.91 U	2.7 U	1.8 U
Trichloroethene	µg/m^3	30	8.8	100	12 U	13000[abc]	15000[abc]	7100[abc]	R	30000[abc]	-	1200[abc]	6300[abc]	11 J[b]
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		14 U	29 U	28 U	19 U	R	49 U	-	1.9 U	5.7 U	3.8 U
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		5.8 U	11 U	11 U	7.7 U	R	20 U	-	0.77 U	2.3 U	1.5 U
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13		6.2 U	12 U	12 U	8.3 U	R	21 U	-	0.83 U	2.5 U	1.7 U
Vinyl chloride	µg/m^3	28	440	40	5.6 U	11 U	11 U	7.4 U	R	19 U	-	0.74 U	2.2 U	210[ac]
Xylenes (total)	µg/m^3		440		520[b]	14 U	14 U	9.6 U	R	24 U	-	0.96 U	2.9 U	1.9 U
Fixed Gases														
Helium	%				-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.5	0.5	0.5	0.2 Dup 0.2	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5172, Bldg 2, Probe A*	*Parcel 5172, Bldg 2, Probe B*	*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5173, Bldg 1, Probe A*	*Parcel 5173, Bldg 1, Probe B*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe A*
Sample ID:					*SS-38443-010612-JC-017*	*SS-38443-010612-JC-019*	*SS-38443-010612-JC-020*	*SS-38443-010912-JC-042*	*SS-38443-011212-JC-074*	*SS-38443-011212-JC-071*	*SS-38443-011212-JC-072*	*SS-38443-011212-JC-073*	*SS-38443-010512-GL-009*
Sample Date:					*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/9/2012*	*1/12/2012*	*1/12/2012*	*1/12/2012*	*1/12/2012*	*1/5/2012*
		ELCR	HI		*Duplicate*							*Duplicate*	
	Units	*a*	*b*	*c*									
Cumulative Risk													
Total HI	µg/m^3		1		-	0	0	15[b]	24[b]	42[b]	-	20[b]	0
Total Risk	µg/m^3	1E-5			-	4E-06	1E-06	4E-05[a]	7E-05[a]	1E-04[a]	-	2E-04[a]	1E-07
Volatile Organic Compounds													
1,1,1-Trichloroethane	µg/m^3		22000		4.5 U	1.5 U	0.98 J	2.6 U	3.3 U	5.8 U	R	48 U	0.95 U
1,1,2,2-Tetrachloroethane	µg/m^3	2.1			6.5 U	2.2 U	1.1 U	3.8 U	4.7 U	8.3 U	R	69 U	1.4 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88		2.5 U	0.83 U	0.41 U	1.4 U	1.8 U	3.2 U	R	26 U	0.52 U
1,1-Dichloroethane	µg/m^3	77		630	1300[ac]	220[a]	0.57 U	9.2 J	2.4 U	4.3 U	R	35 U	0.71 U
1,1-Dichloroethene	µg/m^3		880		2.8 U	0.95 U	0.48 U	1.6 U	2.0 U	3.6 U	R	110 J	0.59 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		8.8 U	3.0 U	1.5 U	5.1 U	6.3 U	11 U	R	93 U	1.9 U
1,2,4-Trimethylbenzene	µg/m^3		31		6.1 U	24	1.0 U	3.5 U	4.4 U	7.8 U	R	2900[b]	1.3 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39		3.3 U	1.1 U	0.55 U	1.9 U	2.4 U	4.2 U	R	35 U	0.69 U
1,2-Dichlorobenzene	µg/m^3		880		6.9 U	2.3 U	1.2 U	4.0 U	4.9 U	8.8 U	R	72 U	1.4 U
1,2-Dichloroethane	µg/m^3	4.7	31		3.0 U	1.0 U	0.50 U	1.7 U	2.1 U	3.8 U	R	31 U	0.63 U
1,2-Dichloroethene (total)	µg/m^3				12 J	1.7 J	0.22 U	61	11 J	510	R	30000	0.28 U
1,2-Dichloropropane	µg/m^3	12	18		1.5 U	0.52 U	0.26 U	0.89 U	1.1 U	2.0 U	R	16 U	0.32 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				5.3 U	13	0.89 U	3.1 U	3.8 U	6.8 U	R	56 U	4.3 J
1,3,5-Trimethylbenzene	µg/m^3				6.0 U	9.3	1.0 U	3.5 U	4.3 U	7.6 U	R	2300	1.3 U
1,3-Butadiene	µg/m^3	4.1	8.8		0.53 U	0.18 U	0.088 U	0.31 U	0.38 U	0.67 U	R	5.5 U	0.11 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500		6.3 U	2.1 U	1.1 U	3.7 U	4.5 U	8.0 U	R	66 U	1.3 U
1,4-Dichlorobenzene	µg/m^3	11	3500		6.3 U	2.1 U	1.1 U	3.7 U	4.5 U	8.0 U	R	66 U	1.3 U
1,4-Dioxane	µg/m^3	16	13000		7.5 U	2.5 U	1.3 U	4.4 U	5.4 U	9.6 U	R	79 U	1.6 U
2,2,4-Trimethylpentane	µg/m^3				4.0 U	1.3 U	0.67 U	2.3 U	2.9 U	5.1 U	R	42 U	0.84 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		23 J	0.40 U	0.20 U	0.69 U	0.86 U	1.5 U	R	13 U	2.1 J
2-Chlorotoluene	µg/m^3				5.8 U	1.9 U	0.97 U	3.4 U	4.2 U	7.4 U	R	61 U	1.2 U
2-Hexanone	µg/m^3		130		3.8 U	1.3 U	0.64 U	2.2 U	2.7 U	4.9 U	R	40 U	0.80 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				6.1 U	2.1 U	1.0 U	3.6 U	4.4 U	7.8 U	R	620	1.3 U
4-Ethyl toluene	µg/m^3				5.4 U	4.0 J	0.90 U	3.1 U	3.9 U	6.9 U	R	530	1.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		2.5 U	0.85 U	0.43 U	1.5 U	1.8 U	3.2 U	R	27 U	0.53 U
Acetone	µg/m^3		140000		41 J	5.9 J	3.0 J	26 J	3.5 J	3.2 U	R	170 J	2.7 J
Allyl chloride	µg/m^3	20	4.4		1.4 U	0.48 U	0.24 U	0.82 U	1.0 U	1.8 U	R	15 U	0.30 U
Benzene	µg/m^3	16	130	40	5.7 J	0.46 U	0.23 U	0.79 U	0.98 U	1.7 U	R	750[abc]	0.29 U
Benzyl chloride	µg/m^3	2.5	4.4		5.7 U	1.9 UJ	0.95 U	3.3 UJ	4.1 UJ	7.2 UJ	R	60 UJ	1.2 UJ
Bromodichloromethane	µg/m^3	3.3			4.5 U	1.5 U	0.75 U	2.6 U	3.2 U	5.7 U	R	47 U	0.94 U
Bromoform	µg/m^3	110			4.7 U	1.6 U	0.79 U	2.7 U	3.4 U	6.0 UJ	R	49 U	0.98 U
Bromomethane (Methyl bromide)	µg/m^3		22		1.1 U	0.37 U	0.19 U	0.64 U	0.80 U	1.4 U	R	12 U	0.23 U
Butane	µg/m^3				360	0.21 U	0.10 U	0.36 U	5.2 J	0.79 U	R	15000	0.13 U
Carbon disulfide	µg/m^3		3100		43	1.6 U	0.82 U	2.8 U	3.5 U	6.2 U	R	120 J	1.0 U
Carbon tetrachloride	µg/m^3	20	440		4.9 U	1.7 U	0.83 U	2.9 U	3.5 U	6.3 U	R	52 U	1.0 U
Chlorobenzene	µg/m^3		220		2.2 U	0.73 U	0.37 U	1.3 U	1.6 U	2.8 U	R	2400[b]	0.46 U
Chlorodifluoromethane	µg/m^3		220000		9.4 J	0.96 U	0.48 U	1.7 U	2.1 U	3.7 U	R	30 U	0.60 U
Chloroethane	µg/m^3		44000		1.0 U	0.34 U	0.17 U	0.58 U	0.72 U	1.3 U	R	110 J	0.21 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	4000	3.6 U	4.5 J	0.61 U	3.4 J	2.6 U	41[a]	R	38 U	0.76 U
Chloromethane (Methyl chloride)	µg/m^3		390		0.64 U	0.21 U	0.11 U	0.37 U	0.46 U	0.82 U	R	6.7 U	0.13 U
cis-1,2-Dichloroethene[b]	µg/m^3		260	1500	5.9 J	1.7 J	0.22 U	59	11 J	340[b]	R	29000[bc]	0.28 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88		1.7 U	0.58 U	0.29 U	1.0 U	1.2 U	2.2 U	R	18 U	0.36 U
Cyclohexane	µg/m^3		26000		13 J	1.1 U	0.54 U	1.9 U	2.3 U	4.1 U	R	6600	0.67 U
Cymene (p-Isopropyltoluene)	µg/m^3				6.3 U	2.1 U	1.1 U	3.6 U	4.5 U	8.0 U	R	340	1.3 U
Dibromochloromethane	µg/m^3	4.5			4.3 U	1.4 U	0.72 U	2.5 U	3.1 U	5.4 U	R	45 U	0.89 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		14 J	6.0 J	2.5 J	2.8 J	3.2 U	5.7 U	R	47 U	18
Ethylbenzene	µg/m^3	49	4400	13000	2.3 U	5.4 J	0.38 U	1.3 U	1.6 U	2.9 U	R	1400[a]	0.48 U
Hexachlorobutadiene	µg/m^3	5.6			16 U	5.5 U	3.9 J	9.6 U	12 U	21 U	R	170 U	3.5 U
Hexane	µg/m^3		3100		16 J	0.73 U	0.37 U	1.3 U	1.8 J	2.8 U	R	4700[b]	0.46 U
Isopropyl alcohol	µg/m^3				2.2 U	0.73 U	4.0 J	1.3 U	1.6 U	2.8 U	R	23 U	0.45 U
Isopropyl benzene	µg/m^3		1800		3.6 U	1.2 U	0.61 U	2.1 U	2.6 U	4.6 U	R	680	0.76 U
m&p-Xylenes	µg/m^3		440	8000	5.0 U	31	0.83 U	2.9 U	3.6 U	6.3 U	R	3600[b]	1.0 U
Methyl methacrylate	µg/m^3		3100		1.3 U	0.43 U	0.21 U	0.73 U	0.91 U	1.6 U	R	13 U	0.27 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000		1.4 U	0.46 U	0.23 U	0.80 U	0.99 U	1.8 U	R	14 U	0.29 U
Methylene chloride	µg/m^3	12000	2600		3.9 J	0.36 U	0.60 J	2.8 U	2.9 J	4.8 U	R	58 J	1.1 J
Naphthalene	µg/m^3	3.6	13	15.2	11 U	3.6 UJ	1.8 U	6.2 UJ	7.7 U	14 U	R	110 U	2.3 UJ

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5172, Bldg 2, Probe A*	*Parcel 5172, Bldg 2, Probe B*	*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5173, Bldg 1, Probe A*	*Parcel 5173, Bldg 1, Probe B*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe A*
Sample ID:					*SS-38443-010612-JC-017*	*SS-38443-010612-JC-019*	*SS-38443-010612-JC-020*	*SS-38443-010912-JC-042*	*SS-38443-011212-JC-074*	*SS-38443-011212-JC-071*	*SS-38443-011212-JC-072*	*SS-38443-011212-JC-073*	*SS-38443-010512-GL-009*
Sample Date:					*1/6/2012*	*1/6/2012*	*1/6/2012*	*1/9/2012*	*1/12/2012*	*1/12/2012*	*1/12/2012*	*1/12/2012*	*1/5/2012*
		ELCR	HI		*Duplicate*							*Duplicate*	
	Units	*a*	*b*	*c*									
N-Butylbenzene	µg/m^3				7.2 U	2.4 U	1.2 U	4.2 U	5.2 U	9.2 U	R	150 J	1.5 U
N-Decane	µg/m^3				-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3				-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3				0.98 U	0.33 U	0.16 U	0.57 U	5.2 J	1.2 U	R	15000	0.20 U
Nonane	µg/m^3		880		-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3				5.8 U	2.1 J	0.98 U	3.4 U	4.2 U	7.5 U	R	610	1.2 U
N-Undecane	µg/m^3				-	-	-	-	-	-	-	-	-
Octane	µg/m^3				-	-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		440	8000	2.3 U	17	0.38 U	1.3 U	1.6 U	2.9 U	R	**3100[b]**	0.48 U
Pentane	µg/m^3		4400		-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		3.0 U	1.0 U	0.51 U	1.8 U	2.2 U	3.9 U	R	32 U	0.64 U
tert-Butyl alcohol	µg/m^3				5.1 U	1.7 U	0.86 U	3.0 U	3.7 U	6.5 U	R	54 U	1.1 U
tert-Butylbenzene	µg/m^3				6.1 U	2.1 U	1.0 U	3.6 U	4.4 U	7.8 U	R	66 J	1.3 U
Tetrachloroethene	µg/m^3	470	180	1700	1.8 U	0.60 U	0.72 J	10 J	51	8.7 J	R	19 U	4.5 J
Tetrahydrofuran	µg/m^3				1.3 U	0.42 U	0.21 U	0.73 U	0.91 U	1.6 U	R	13 U	0.27 U
Toluene	µg/m^3		22000		2.9 J	3.7 J	1.1 J	2.7 J	5.3 J	2.1 U	R	13000	3.4 J
trans-1,2-Dichloroethene	µg/m^3		260		6.3 J	1.0 U	0.51 U	2.4 J	2.2 U	170	R	**610[b]**	0.63 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88		2.2 U	0.73 U	0.36 U	1.3 U	1.6 U	2.8 U	R	23 U	0.45 U
Trichloroethene	µg/m^3	30	8.8	100	7.8 J	**19[b]**	**13[b]**	**1300[abc]**	**2100[abc]**	**3700[abc]**	R	**510[abc]**	2.7 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		4.5 U	1.5 U	1.6 J	2.6 U	3.3 U	5.8 U	R	48 U	0.96 U
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1.8 U	0.61 U	2.4 J	1.1 U	1.3 U	2.3 U	R	19 U	0.38 U
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13		2.0 U	0.66 U	0.33 U	1.1 U	1.4 U	2.5 U	R	21 U	0.42 U
Vinyl chloride	µg/m^3	28	440	40	**180[ac]**	0.59 U	0.30 U	1.0 U	1.3 U	2.3 U	R	**2800[abc]**	0.37 U
Xylenes (total)	µg/m^3		440		2.3 U	47	0.38 U	1.3 U	1.6 U	2.9 U	R	**6700[b]**	0.48 U
Fixed Gases													
Helium	%				-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	-	0.066 U	-	-	0.058 U	-	-	-
Methane, field, unfiltered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.1 Dup 0.1	**1.1 Dup 1.2[abc]**	**1.2 Dup 1.1[abc]**	0.0 Dup 0.0

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5174, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe D*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe B*	*Parcel 5175, Bldg 1, Probe C*
Sample ID:					*SS-38443-010512-GL-010*	*SS-38443-010512-GL-011*	*SS-38443-010512-GL-012*	*SS-38443-010512-GL-013*	*SS-38443-010912-JC-044*	*SS-38443-010912-JC-045*	*SS-38443-010912-JC-046*
Sample Date:		ELCR	HI		*1/5/2012*	*1/5/2012*	*1/5/2012*	*1/5/2012*	*1/9/2012*	*1/9/2012*	*1/9/2012*
	Units	*a*	*b*	*c*							
Cumulative Risk											
Total HI	µg/m^3		1		-	11[b]	-	-	2[b]	1	0
Total Risk	µg/m^3	1E-5			-	3E-05[a]	-	-	5E-06	4E-06	6E-08
Volatile Organic Compounds											
1,1,1-Trichloroethane	µg/m^3		22000		R	2.4 J	R	R	0.73 J	1.5 U	0.19 U
1,1,2,2-Tetrachloroethane	µg/m^3	2.1			R	2.7 U	R	R	0.27 U	2.2 U	0.27 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88		R	1.0 U	R	R	0.10 U	0.83 U	0.10 U
1,1-Dichloroethane	µg/m^3	77		630	R	1.4 U	R	R	0.14 U	1.1 U	0.14 U
1,1-Dichloroethene	µg/m^3		880		R	1.2 U	R	R	0.12 U	0.95 U	0.12 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		R	3.7 U	R	R	0.37 U	3.0 U	0.37 U
1,2,4-Trimethylbenzene	µg/m^3		31		R	2.6 U	R	R	1.2	2.0 U	0.26 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39		R	1.4 U	R	R	0.14 U	1.1 U	0.14 U
1,2-Dichlorobenzene	µg/m^3		880		R	2.9 U	R	R	0.29 U	2.3 U	0.29 U
1,2-Dichloroethane	µg/m^3	4.7	31		R	1.3 U	R	R	0.13 U	1.0 U	0.13 U
1,2-Dichloroethene (total)	µg/m^3				R	50	R	R	0.056 U	0.44 U	0.57 J
1,2-Dichloropropane	µg/m^3	12	18		R	0.65 U	R	R	0.065 U	0.52 U	0.065 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				R	2.2 U	R	R	0.45 J	1.8 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3				R	2.5 U	R	R	0.40 J	2.0 U	0.25 U
1,3-Butadiene	µg/m^3	4.1	8.8		R	0.22 U	R	R	0.022 U	0.18 U	0.022 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500		R	2.6 U	R	R	0.26 U	2.1 U	0.26 U
1,4-Dichlorobenzene	µg/m^3	11	3500		R	2.6 U	R	R	0.26 U	2.1 U	0.26 U
1,4-Dioxane	µg/m^3	16	13000		R	3.2 U	R	R	0.32 U	2.5 U	0.32 U
2,2,4-Trimethylpentane	µg/m^3				R	1.7 U	R	R	0.17 U	1.3 U	0.17 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		R	0.50 U	R	R	1.1 J	0.40 U	0.42 J
2-Chlorotoluene	µg/m^3				R	2.4 U	R	R	0.24 U	1.9 U	0.24 U
2-Hexanone	µg/m^3		130		R	1.6 U	R	R	0.16 U	1.3 U	0.16 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				R	2.6 U	R	R	0.26 U	2.1 U	0.26 U
4-Ethyl toluene	µg/m^3				R	2.3 U	R	R	0.36 J	1.8 U	0.23 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		R	1.1 U	R	R	0.11 U	0.85 U	0.11 U
Acetone	µg/m^3		140000		R	5.9 J	R	R	10 J	5.3 J	13
Allyl chloride	µg/m^3	20	4.4		R	0.59 U	R	R	0.059 U	0.48 U	0.059 U
Benzene	µg/m^3	16	130	40	R	0.58 U	R	R	0.62	0.46 U	0.058 U
Benzyl chloride	µg/m^3	2.5	4.4		R	2.4 UJ	R	R	0.24 U	1.9 U	0.24 U
Bromodichloromethane	µg/m^3	3.3			R	1.9 U	R	R	0.19 U	1.5 U	0.19 U
Bromoform	µg/m^3	110			R	2.0 U	R	R	0.20 U	1.6 U	0.20 U
Bromomethane (Methyl bromide)	µg/m^3		22		R	0.47 U	R	R	0.047 U	0.37 U	0.047 U
Butane	µg/m^3				R	0.86 J	R	R	3.8	0.21 U	0.68 J
Carbon disulfide	µg/m^3		3100		R	2.1 U	R	R	0.21 U	1.6 U	0.21 U
Carbon tetrachloride	µg/m^3	20	440		R	2.1 U	R	R	0.21 U	1.7 U	0.23 J
Chlorobenzene	µg/m^3		220		R	0.92 U	R	R	0.092 U	0.73 U	0.092 U
Chlorodifluoromethane	µg/m^3		220000		R	1.2 U	R	R	1.1 J	0.96 U	1.0 J
Chloroethane	µg/m^3		44000		R	0.42 U	R	R	0.042 U	0.34 U	0.042 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	4000	R	11[a]	R	R	0.15 U	1.2 U	0.15 U
Chloromethane (Methyl chloride)	µg/m^3		390		R	0.27 U	R	R	0.027 U	0.21 U	0.027 U
cis-1,2-Dichloroethene[b]	µg/m^3		260	1500	R	44	R	R	0.056 U	0.44 U	0.57 J
cis-1,3-Dichloropropene[c]	µg/m^3	31	88		R	0.73 U	R	R	0.073 U	0.58 U	0.073 U
Cyclohexane	µg/m^3		26000		R	1.3 U	R	R	2.3	1.1 U	0.13 U
Cymene (p-Isopropyltoluene)	µg/m^3				R	2.6 U	R	R	0.26 U	2.1 U	0.26 U
Dibromochloromethane	µg/m^3	4.5			R	1.8 U	R	R	0.18 U	1.4 U	0.18 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		R	7.1 J	R	R	3.2	3.1 J	2.9
Ethylbenzene	µg/m^3	49	4400	13000	R	0.96 U	R	R	1.7	0.76 U	0.096 U
Hexachlorobutadiene	µg/m^3	5.6			R	6.9 U	R	R	0.69 U	5.5 U	0.69 U
Hexane	µg/m^3		3100		R	0.92 U	R	R	1.3	0.73 U	0.30 J
Isopropyl alcohol	µg/m^3				R	0.91 U	R	R	0.091 U	0.73 U	0.091 U
Isopropyl benzene	µg/m^3		1800		R	1.5 U	R	R	1.1	1.2 U	0.15 U
m&p-Xylenes	µg/m^3		440	8000	R	2.1 U	R	R	4.5	1.7 U	0.32 J
Methyl methacrylate	µg/m^3		3100		R	0.53 U	R	R	2.2	0.43 U	0.053 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000		R	0.58 U	R	R	0.058 U	0.46 U	0.058 U
Methylene chloride	µg/m^3	12000	2600		R	0.45 U	R	R	0.37 U	2.1 U	0.39 U
Naphthalene	µg/m^3	3.6	13	15.2	R	4.5 UJ	R	R	1.1 J	3.6 U	0.45 U

TABLE 4.1

SUMMARY OF ROUND 1 SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		ODH Sub-slab soil vapor Non-residential	*Parcel 5174, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe D*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe B*	*Parcel 5175, Bldg 1, Probe C*
Sample ID:					*SS-38443-010512-GL-010*	*SS-38443-010512-GL-011*	*SS-38443-010512-GL-012*	*SS-38443-010512-GL-013*	*SS-38443-010912-JC-044*	*SS-38443-010912-JC-045*	*SS-38443-010912-JC-046*
Sample Date:		ELCR	HI		*1/5/2012*	*1/5/2012*	*1/5/2012*	*1/5/2012*	*1/9/2012*	*1/9/2012*	*1/9/2012*
	Units	*a*	*b*	*c*							
N-Butylbenzene	$\mu g/m^3$				R	3.0 U	R	R	0.30 U	2.4 U	0.30 U
N-Decane	$\mu g/m^3$				-	-	-	-	-	-	-
N-Dodecane	$\mu g/m^3$				-	-	-	-	-	-	-
N-Heptane	$\mu g/m^3$				R	0.41 U	R	R	4.9	0.33 U	0.30 J
Nonane	$\mu g/m^3$		880		-	-	-	-	-	-	-
N-Propylbenzene	$\mu g/m^3$				R	2.5 U	R	R	0.58 J	2.0 U	0.25 U
N-Undecane	$\mu g/m^3$				-	-	-	-	-	-	-
Octane	$\mu g/m^3$				-	-	-	-	-	-	-
o-Xylene	$\mu g/m^3$		440	8000	R	0.96 U	R	R	2.5	0.76 U	0.13 J
Pentane	$\mu g/m^3$		4400		-	-	-	-	-	-	-
Styrene	$\mu g/m^3$		4400		R	1.3 U	R	R	0.13 U	1.0 U	0.13 U
tert-Butyl alcohol	$\mu g/m^3$				R	2.2 U	R	R	0.22 U	1.7 U	0.22 U
tert-Butylbenzene	$\mu g/m^3$				R	2.6 U	R	R	0.26 U	2.1 U	0.26 U
Tetrachloroethene	$\mu g/m^3$	470	180	1700	R	30	R	R	8.6	3.0 J	1.7
Tetrahydrofuran	$\mu g/m^3$				R	0.53 U	R	R	0.053 U	0.42 U	0.053 U
Toluene	$\mu g/m^3$		22000		R	0.68 U	R	R	7.3	0.54 U	0.49 J
trans-1,2-Dichloroethene	$\mu g/m^3$		260		R	6.2 J	R	R	0.13 U	1.0 U	0.13 U
trans-1,3-Dichloropropene[d]	$\mu g/m^3$	31	88		R	0.91 U	R	R	0.091 U	0.73 U	0.091 U
Trichloroethene	$\mu g/m^3$	30	8.8	100	R	**940[abc]**	R	R	**140[abc]**	**120[abc]**	1.4
Trichlorofluoromethane (CFC-11)	$\mu g/m^3$		3100		R	1.9 U	R	R	8.7	6.7 J	2.3
Trifluorotrichloroethane (Freon 113)	$\mu g/m^3$		130000		R	0.77 U	R	R	0.50 J	0.61 U	0.54 J
Vinyl bromide (Bromoethene)	$\mu g/m^3$	3.8	13		R	0.83 U	R	R	0.083 U	0.66 U	0.083 U
Vinyl chloride	$\mu g/m^3$	28	440	40	R	0.74 U	R	R	0.074 U	0.59 U	0.074 U
Xylenes (total)	$\mu g/m^3$		440		R	0.96 U	R	R	7.0	0.76 U	0.46 J
Fixed Gases											
Helium	%				-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	R	-	-	-	-	0.061 U	-
Methane, field, unfiltered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0

Notes:

All concentrations are expressed in units of micrograms per cubic meter ($\mu g/m^3$) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tenative identification"

ODH - Ohio Department of Health

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

SVSL - Soil Vapor Screening Level

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

- - Not applicable.

The industrial SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

- Concentration was greater than applicable criteria.

TABLE 4.2

SUMMARY OF ROUND 1 INDOOR AIR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:								*75' W of gate, 40' N of S Fence*	*Parcel 3207, Outdoor Air*	*Parcel 3253, Bldg 1, Outdoor Air*	*Parcel 3253, Bldg 2*	*Parcel 4610, Outdoor Air*	*Parcel 4610, Bldg A*	*Parcel 4610, Bldg A*	*Parcel 4610, Bldg A, Outdoor Air*	*Parcel 4610, Bldg C*	*Parcel 4610, Bldg D*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Mitigation and CSSL for Further Investigation		ODH IA Non-residential	ODH IA Residential	*OA-38443-010512-JC-008*	*SS-38443-010712-JC-028*	*OA-38443-010312-GL-003*	*-*	*OA-38443-010412-GL-007*	*CS-38443-011212-JC-076*	*CS-38443-011212-JC-075*	*OA-38443-011212-JC-077*	*-*	*-*
Sample Date:		ELCR	HI	ELCR	HI			*1/5/2012*	*1/7/2012*	*1/3/2012*	*1/5/2012*	*1/4/2012*	*1/12/2012*	*1/13/2012*	*1/13/2012*	*1/5/2012*	*1/6/2012*
	Units	a	b	c	d	e	f										
Cumulative Risk																	
Total HI	µg/m³		1		1			-	-	-	-	-	0	0	-	-	-
Total Risk	µg/m³	1E-5		1E-5		1E-5		-	-	-	-	-	4E-06	3E-06	-	-	-
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m³		5200		22000			0.19 U	0.19 U	0.19 U	-	R	0.039 J	0.19 U	0.19 U	-	-
1,1,2,2-Tetrachloroethane	µg/m³	0.42		2.1				0.27 U	0.27 U	0.27 U	-	R	-	0.27 U	0.27 U	-	-
1,1,2-Trichloroethane	µg/m³	1.5	0.21	7.7	0.88			0.10 U	0.10 U	0.10 U	-	R	0.027 U	0.10 U	0.10 U	-	-
1,1-Dichloroethane	µg/m³	15		77		63	15	0.14 U	0.14 U	0.14 U	-	R	0.010 U	0.14 U	0.14 U	-	-
1,1-Dichloroethene	µg/m³		210		880			0.12 U	0.12 U	0.12 U	-	R	0.020 U	0.12 U	0.12 U	-	-
1,2,4-Trichlorobenzene	µg/m³		2.1		8.8			0.37 U	0.37 U	0.37 U	-	R	-	0.37 U	0.37 U	-	-
1,2,4-Trimethylbenzene	µg/m³		7.3		31			0.26 U	0.26 U	0.26 U	-	R	-	0.26 U	0.26 U	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.041	9.4	0.2	39			0.14 U	0.14 U	0.14 U	-	R	0.031 U	0.14 U	0.14 U	-	-
1,2-Dichlorobenzene	µg/m³		210		880			0.29 U	0.29 U	0.29 U	-	R	-	0.29 U	0.29 U	-	-
1,2-Dichloroethane	µg/m³	0.94	7.3	4.7	31			0.13 U	0.13 U	0.13 U	-	R	0.076	0.13 U	0.13 U	-	-
1,2-Dichloroethene (total)	µg/m³							0.056 U	0.056 U	0.056 U	-	R	-	0.056 U	0.056 U	-	-
1,2-Dichloropropane	µg/m³	2.4	4.2	12	18			0.065 U	0.065 U	0.065 U	-	R	-	0.065 U	0.065 U	-	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³							0.22 U	0.22 U	0.22 U	-	R	-	0.22 U	0.22 U	-	-
1,3,5-Trimethylbenzene	µg/m³							0.25 U	0.25 U	0.25 U	-	R	-	0.25 U	0.25 U	-	-
1,3-Butadiene	µg/m³	0.81	2.1	4.1	8.8			0.20 J	0.022 U	0.11 J	-	R	-	0.022 U	0.022 U	-	-
1,3-Dichlorobenzene[a]	µg/m³	2.2	830	11	3500			0.26 U	0.26 U	0.26 U	-	R	-	0.26 U	0.26 U	-	-
1,4-Dichlorobenzene	µg/m³	2.2	830	11	3500			0.26 U	0.26 U	0.26 U	-	R	-	0.26 U	0.26 U	-	-
1,4-Dioxane	µg/m³	3.2	3100	16	13000			0.32 U	0.32 U	0.32 U	-	R	-	0.32 U	0.32 U	-	-
2,2,4-Trimethylpentane	µg/m³							0.17 U	0.17 U	0.17 U	-	R	-	0.17 U	0.17 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		5200		22000			0.050 U	1.4 J	1.1 J	-	R	-	1.0 J	0.36 J	-	-
2-Chlorotoluene	µg/m³							0.24 U	0.24 U	0.24 U	-	R	-	0.24 U	0.24 U	-	-
2-Hexanone	µg/m³		31		130			0.16 U	0.16 U	0.16 U	-	R	-	0.16 U	0.16 U	-	-
2-Phenylbutane (sec-Butylbenzene)	µg/m³							0.26 U	0.26 U	0.26 U	-	R	-	0.26 U	0.26 U	-	-
4-Ethyl toluene	µg/m³							0.23 U	0.23 U	0.23 U	-	R	-	0.23 U	0.23 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		3100		13000			0.11 U	0.11 U	0.11 U	-	R	-	0.11 U	0.11 U	-	-
Acetone	µg/m³		32000		140000			4.4 J	7.3 J	4.4 J	-	R	-	3.0 J	2.1 J	-	-
Allyl chloride	µg/m³	4.1	1	20	4.4			0.059 U	0.059 U	0.059 U	-	R	-	0.059 U	0.059 U	-	-
Benzene	µg/m³	3.1	31	16	130	4	1	0.058 U	0.50 J	0.77	-	R	0.53	0.50 J	0.46 J	-	-
Benzyl chloride	µg/m³	0.5	1	2.5	4.4			0.24 UJ	0.24 U	0.24 U	-	R	-	0.24 UJ	0.24 UJ	-	-
Bromodichloromethane	µg/m³	0.66		3.3				0.19 U	0.19 U	0.19 U	-	R	-	0.19 U	0.19 U	-	-
Bromoform	µg/m³	22		110				0.20 U	0.20 U	0.20 U	-	R	-	0.20 U	0.20 U	-	-
Bromomethane (Methyl bromide)	µg/m³		5.2		22			0.047 U	0.047 U	0.047 U	-	R	-	0.047 U	0.047 U	-	-
Butane	µg/m³							5.7	2.8	1.6	-	R	-	2.3	2.2	-	-
Carbon disulfide	µg/m³		730		3100			0.21 U	0.21 U	0.21 U	-	R	-	0.21 U	0.21 U	-	-
Carbon tetrachloride	µg/m³	4.1	100	20	440			0.21 U	0.43 J	0.46 J	-	R	-	0.43 J	0.43 J	-	-
Chlorobenzene	µg/m³		52		220			0.092 U	0.092 U	0.092 U	-	R	-	0.092 U	0.092 U	-	-
Chlorodifluoromethane	µg/m³		52000		220000			1.3 J	0.78 J	0.92 J	-	R	-	1.2 J	0.12 U	-	-
Chloroethane	µg/m³		10000		44000			0.042 U	0.042 U	0.042 U	-	R	-	0.042 U	0.042 U	-	-
Chloroform (Trichloromethane)	µg/m³	1.1	100	5.3	430	400	100	0.15 U	0.15 U	0.15 U	-	R	0.081	0.15 U	0.15 U	-	-
Chloromethane (Methyl chloride)	µg/m³		94		390			1.4	0.94 J	1.1	-	R	-	1.0	1.2	-	-
cis-1,2-Dichloroethene[b]	µg/m³		63		260	150	35	0.056 U	0.056 U	0.056 U	-	R	0.0099 U	0.056 U	0.056 U	-	-
cis-1,3-Dichloropropene[c]	µg/m³	6.1	21	31	88			0.073 U	0.073 U	0.073 U	-	R	-	0.073 U	0.073 U	-	-
Cyclohexane	µg/m³		6300		26000			0.13 U	0.13 U	0.14 J	-	R	-	0.13 U	0.13 U	-	-
Cymene (p-Isopropyltoluene)	µg/m³							0.26 U	0.26 U	0.26 U	-	R	-	0.26 U	0.26 U	-	-
Dibromochloromethane	µg/m³	0.9		4.5				0.18 U	0.18 U	0.18 U	-	R	-	0.18 U	0.18 U	-	-
Dichlorodifluoromethane (CFC-12)	µg/m³		100		440			3.2	2.2 J	2.5	-	R	-	2.4 J	2.6	-	-
Ethylbenzene	µg/m³	9.7	1000	49	4400	1300	300	0.096 U	0.12 J	0.15 J	-	R	-	0.15 J	0.096 U	-	-
Hexachlorobutadiene	µg/m³	1.1		5.6				0.69 U	0.69 U	0.69 U	-	R	-	0.69 U	0.69 U	-	-
Hexane	µg/m³		730		3100			0.092 U	0.53 J	0.28 J	-	R	-	7.4	0.40 J	-	-
Isopropyl alcohol	µg/m³							0.091 U	0.091 U	0.83 J	-	R	-	0.85 J	0.091 U	-	-
Isopropyl benzene	µg/m³		420		1800			0.15 U	0.15 U	0.15 U	-	R	-	0.15 U	0.15 U	-	-
m&p-Xylenes	µg/m³		100		440	800	200	0.21 U	0.26 J	0.42 J	-	R	-	0.30 J	0.21 U	-	-
Methyl methacrylate	µg/m³		730		3100			0.053 U	0.053 U	0.053 U	-	R	-	0.053 U	0.053 U	-	-
Methyl tert butyl ether (MTBE)	µg/m³	94	3100	470	13000			0.058 U	0.058 U	0.058 U	-	R	-	0.058 U	0.058 U	-	-
Methylene chloride	µg/m³	960	630	12,000	2600			0.52 J	0.85 U	0.35 J	-	R	0.35 U	0.47 J	0.43 J	-	-
Naphthalene	µg/m³	0.72	3.1	3.6	13	15.2	3.67	0.45 UJ	0.45 U	0.45 U	-	R	0.037 U	0.45 U	0.45 U	-	-
N-Butylbenzene	µg/m³							0.30 U	0.30 U	0.30 U	-	R	-	0.30 U	0.30 U	-	-
N-Decane	µg/m³							-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m³							-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m³							0.041 U	0.30 J	0.37 J	-	R	-	0.42 J	0.21 J	-	-

TABLE 4.2

SUMMARY OF ROUND 1 INDOOR AIR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:								*75' W of gate, 40' N of S Fence*	*Parcel 3207, Outdoor Air*	*Parcel 3253, Bldg 1, Outdoor Air*	*Parcel 3253, Bldg 2*	*Parcel 4610, Outdoor Air*	*Parcel 4610, Bldg A*	*Parcel 4610, Bldg A*	*Parcel 4610, Bldg A, Outdoor Air*	*Parcel 4610, Bldg C*	*Parcel 4610, Bldg D*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Mitigation and CSSL for Further Investigation		ODH IA Non-residential	ODH IA Residential	*OA-38443-010512-JC-008*	*SS-38443-010712-JC-028*	*OA-38443-010312-GL-003*	*-*	*OA-38443-010412-GL-007*	*CS-38443-011212-JC-076*	*CS-38443-011212-JC-075*	*OA-38443-011212-JC-077*	*-*	*-*
Sample Date:		ELCR	HI	ELCR	HI			*1/5/2012*	*1/7/2012*	*1/3/2012*	*1/5/2012*	*1/4/2012*	*1/12/2012*	*1/13/2012*	*1/13/2012*	*1/5/2012*	*1/6/2012*
	Units	a	b	c	d	e	f										
Nonane	µg/m^3		210		880			-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3							0.25 U	0.25 U	0.25 U	-	R	-	0.25 U	0.25 U	-	-
N-Undecane	µg/m^3							-	-	-	-	-	-	-	-	-	-
Octane	µg/m^3							-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		100		440	800	200	0.096 U	0.096 U	0.17 J	-	R	-	0.10 J	0.096 U	-	-
Pentane	µg/m^3		1000		4400			-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		1000		4400			0.13 U	0.13 U	0.13 U	-	R	-	0.13 U	0.13 U	-	-
tert-Butyl alcohol	µg/m^3							0.22 U	0.22 U	0.22 U	-	R	-	0.22 U	0.22 U	-	-
tert-Butylbenzene	µg/m^3							0.26 U	0.26 U	0.26 U	-	R	-	0.26 U	0.26 U	-	-
Tetrachloroethene	µg/m^3	94	42	470	180	170	40	0.075 U	0.075 U	0.31 J	-	R	0.16	0.075 U	0.075 U	-	-
Tetrahydrofuran	µg/m^3							0.053 U	0.053 U	0.053 U	-	R	-	0.053 U	0.053 U	-	-
Toluene	µg/m^3		5200		22000			0.068 U	0.62 J	0.89	-	R	-	0.67 J	0.47 J	-	-
trans-1,2-Dichloroethene	µg/m^3		63		260			0.13 U	0.13 U	0.13 U	-	R	0.020 U	0.13 U	0.13 U	-	-
trans-1,3-Dichloropropene[d]	µg/m^3	6.1	21	31	88			0.091 U	0.091 U	0.091 U	-	R	-	0.091 U	0.091 U	-	-
Trichloroethene	µg/m^3	4.3	2.1	30	8.8	10	2	0.16 U	0.16 U	0.16 U	-	R	0.12	0.16 U	0.16 U	-	-
Trichlorofluoromethane (CFC-11)	µg/m^3		730		3100			1.2	1.0 J	1.2	-	R	-	1.1	1.2	-	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		31000		130000			0.37 J	0.52 J	0.57 J	-	R	-	0.54 J	0.55 J	-	-
Vinyl bromide (Bromoethene)	µg/m^3	0.76	3.1	3.8	13			0.083 U	0.083 U	0.083 U	-	R	-	0.083 U	0.083 U	-	-
Vinyl chloride	µg/m^3	1.6	100	28	440	4	1	0.074 U	0.074 U	0.074 U	-	R	0.0070 UJ	0.074 U	0.074 U	-	-
Xylenes (total)	µg/m^3		100		440			0.096 U	0.26 J	0.59 J	-	R	-	0.41 J	0.096 U	-	-
Fixed Gases																	
Methane	%	0.05	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	0.060 U	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 D 0.0	0.0 D 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0

TABLE 4.2

SUMMARY OF ROUND 1 INDOOR AIR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Residential IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Mitigation and CSSL for Further Investigation				*Parcel 5054, Outdoor Air*	*Parcel 5054, Bldg 3*	*Parcel 5054, Bldg 6*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP, Outdoor Air*	*Parcel 5054, Bldg MP*	*Parcel 5171, Bldg 4, Outdoor Air*
Sample ID:								*OA-38443-011012-JC-047*	*-*	*-*	*-*	*CS-38443-011012-JC-051*	*OA-38443-011012-JC-053*	*CS-38443-011012-JC-052*	*OA-38443-011112-JC-058*
Sample Date:								*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/11/2012*
		ELCR	HI	ELCR	HI	ODH IA Non-residential	ODH IA Residential							*Duplicate*	
	Units	a	b	c	d	e	f								
Cumulative Risk															
Total HI	µg/m^3		1		1			-	-	-	-	-	-	0	-
Total Risk	µg/m^3	1E-5		1E-5		1E-5		-	-	-	-	-	-	2E-06	-
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m^3		5200		22000			0.19 U	-	-	-	R	R	0.19 U	0.19 U
1,1,2,2-Tetrachloroethane	µg/m^3	0.42		2.1				0.27 U	-	-	-	R	R	0.27 U	0.27 U
1,1,2-Trichloroethane	µg/m^3	1.5	0.21	7.7	0.88			0.10 U	-	-	-	R	R	0.10 U	0.10 U
1,1-Dichloroethane	µg/m^3	15		77		63	15	0.14 U	-	-	-	R	R	0.14 U	0.14 U
1,1-Dichloroethene	µg/m^3		210		880			0.12 U	-	-	-	R	R	0.12 U	0.12 U
1,2,4-Trichlorobenzene	µg/m^3		2.1		8.8			0.37 U	-	-	-	R	R	0.37 U	0.37 U
1,2,4-Trimethylbenzene	µg/m^3		7.3		31			0.51 J	-	-	-	R	R	0.26 U	0.28 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.041	9.4	0.2	39			0.14 U	-	-	-	R	R	0.14 U	0.14 U
1,2-Dichlorobenzene	µg/m^3		210		880			0.29 U	-	-	-	R	R	0.29 U	0.29 U
1,2-Dichloroethane	µg/m^3	0.94	7.3	4.7	31			0.13 U	-	-	-	R	R	0.13 U	0.13 U
1,2-Dichloroethene (total)	µg/m^3							0.056 U	-	-	-	R	R	0.27 J	0.056 U
1,2-Dichloropropane	µg/m^3	2.4	4.2	12	18			0.065 U	-	-	-	R	R	0.065 U	0.065 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3							0.22 U	-	-	-	R	R	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3							0.25 U	-	-	-	R	R	0.25 U	0.25 U
1,3-Butadiene	µg/m^3	0.81	2.1	4.1	8.8			0.19 J	-	-	-	R	R	0.022 U	0.022 U
1,3-Dichlorobenzene[a]	µg/m^3	2.2	830	11	3500			0.26 U	-	-	-	R	R	0.26 U	0.26 U
1,4-Dichlorobenzene	µg/m^3	2.2	830	11	3500			0.26 U	-	-	-	R	R	0.26 U	0.26 U
1,4-Dioxane	µg/m^3	3.2	3100	16	13000			0.32 U	-	-	-	R	R	0.32 U	0.32 U
2,2,4-Trimethylpentane	µg/m^3							0.49 J	-	-	-	R	R	0.17 U	0.24 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		5200		22000			0.99 J	-	-	-	R	R	0.13 J	21 J
2-Chlorotoluene	µg/m^3							0.24 U	-	-	-	R	R	0.24 U	0.24 U
2-Hexanone	µg/m^3		31		130			0.16 U	-	-	-	R	R	0.16 U	0.16 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3							0.26 U	-	-	-	R	R	0.26 U	0.26 U
4-Ethyl toluene	µg/m^3							0.23 U	-	-	-	R	R	0.23 U	0.23 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		3100		13000			0.11 U	-	-	-	R	R	0.11 U	0.11 U
Acetone	µg/m^3		32000		140000			6.2 J	-	-	-	R	R	2.6 J	9.7 J
Allyl chloride	µg/m^3	4.1	1	20	4.4			0.059 U	-	-	-	R	R	0.059 U	0.059 U
Benzene	µg/m^3	3.1	31	16	130	4	1	1.3	-	-	-	R	R	0.52 J	0.87
Benzyl chloride	µg/m^3	0.5	1	2.5	4.4			0.24 UJ	-	-	-	R	R	0.24 UJ	0.24 UJ
Bromodichloromethane	µg/m^3	0.66		3.3				0.19 U	-	-	-	R	R	0.19 U	0.19 U
Bromoform	µg/m^3	22		110				0.20 U	-	-	-	R	R	0.20 U	0.20 U
Bromomethane (Methyl bromide)	µg/m^3		5.2		22			0.047 U	-	-	-	R	R	0.047 U	0.047 U
Butane	µg/m^3							4.3	-	-	-	R	R	3.3	5.3
Carbon disulfide	µg/m^3		730		3100			0.21 U	-	-	-	R	R	0.21 U	1.1 J
Carbon tetrachloride	µg/m^3	4.1	100	20	440			0.44 J	-	-	-	R	R	0.43 J	0.43 J
Chlorobenzene	µg/m^3		52		220			0.092 U	-	-	-	R	R	0.092 U	0.092 U
Chlorodifluoromethane	µg/m^3		52000		220000			1.3 J	-	-	-	R	R	0.12 U	1.2 J
Chloroethane	µg/m^3		10000		44000			0.042 U	-	-	-	R	R	0.042 U	0.042 U
Chloroform (Trichloromethane)	µg/m^3	1.1	100	5.3	430	400	100	0.64 J	-	-	-	R	R	0.43 J	0.15 U
Chloromethane (Methyl chloride)	µg/m^3		94		390			1.1	-	-	-	R	R	0.74 J	1.5
cis-1,2-Dichloroethene[b]	µg/m^3		63		260	150	35	0.056 U	-	-	-	R	R	0.27 J	0.056 U
cis-1,3-Dichloropropene[c]	µg/m^3	6.1	21	31	88			0.073 U	-	-	-	R	R	0.073 U	0.073 U
Cyclohexane	µg/m^3		6300		26000			0.58 J	-	-	-	R	R	0.13 U	0.13 U
Cymene (p-Isopropyltoluene)	µg/m^3							0.26 U	-	-	-	R	R	0.26 U	0.26 U
Dibromochloromethane	µg/m^3	0.9		4.5				0.18 U	-	-	-	R	R	0.18 U	0.18 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		100		440			2.6	-	-	-	R	R	2.4 J	3.0
Ethylbenzene	µg/m^3	9.7	1000	49	4400	1300	300	0.43 J	-	-	-	R	R	0.23 J	0.26 J
Hexachlorobutadiene	µg/m^3	1.1		5.6				0.69 U	-	-	-	R	R	0.69 U	0.69 U
Hexane	µg/m^3		730		3100			1.3	-	-	-	R	R	0.50 J	0.64 J
Isopropyl alcohol	µg/m^3							0.091 U	-	-	-	R	R	0.091 U	0.091 U
Isopropyl benzene	µg/m^3		420		1800			0.15 U	-	-	-	R	R	0.15 U	0.15 U
m&p-Xylenes	µg/m^3		100		440	800	200	1.3 J	-	-	-	R	R	0.23 J	0.76 J
Methyl methacrylate	µg/m^3		730		3100			0.16 J	-	-	-	R	R	0.053 U	0.053 U
Methyl tert butyl ether (MTBE)	µg/m^3	94	3100	470	13000			0.058 U	-	-	-	R	R	0.058 U	0.058 U
Methylene chloride	µg/m^3	960	630	12,000	2600			0.46 U	-	-	-	R	R	0.38 U	0.45 J
Naphthalene	µg/m^3	0.72	3.1	3.6	13	15.2	3.67	0.45 UJ	-	-	-	R	R	0.45 UJ	0.45 UJ
N-Butylbenzene	µg/m^3							0.30 U	-	-	-	R	R	0.30 U	0.30 U
N-Decane	µg/m^3							-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3							-	-	-	-	-	-	-	-
N-Heptane	µg/m^3							1.3	-	-	-	R	R	0.31 J	0.41 J

TABLE 4.2

SUMMARY OF ROUND 1 INDOOR AIR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:								*Parcel 5054, Outdoor Air*	*Parcel 5054, Bldg 3*	*Parcel 5054, Bldg 6*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP, Outdoor Air*	*Parcel 5054, Bldg MP*	*Parcel 5171, Bldg 4, Outdoor Air*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Mitigation and CSSL for Further Investigation				*OA-38443-011012-JC-047*	*-*	*-*	*-*	*CS-38443-011012-JC-051*	*OA-38443-011012-JC-053*	*CS-38443-011012-JC-052*	*OA-38443-011112-JC-058*
Sample Date:						ODH IA	ODH IA	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*1/11/2012*
		ELCR	HI	ELCR	HI	Non-residential	Residential							*Duplicate*	
	Units	a	b	c	d	e	f								
Nonane	µg/m^3		210		880			-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3							0.25 U	-	-	-	R	R	0.25 U	0.25 U
N-Undecane	µg/m^3							-	-	-	-	-	-	-	-
Octane	µg/m^3							-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		100		440	800	200	0.46 J	-	-	-	R	R	0.096 U	0.29 J
Pentane	µg/m^3		1000		4400			-	-	-	-	-	-	-	-
Styrene	µg/m^3		1000		4400			0.13 U	-	-	-	R	R	0.13 U	0.13 U
tert-Butyl alcohol	µg/m^3							0.22 U	-	-	-	R	R	0.22 U	0.22 U
tert-Butylbenzene	µg/m^3							0.26 U	-	-	-	R	R	0.26 U	0.26 U
Tetrachloroethene	µg/m^3	94	42	470	180	170	40	0.60 J	-	-	-	R	R	0.24 J	0.075 U
Tetrahydrofuran	µg/m^3							0.053 U	-	-	-	R	R	0.053 U	19 J
Toluene	µg/m^3		5200		22000			2.4	-	-	-	R	R	0.62 J	1.3
trans-1,2-Dichloroethene	µg/m^3		63		260			0.13 U	-	-	-	R	R	0.13 U	0.13 U
trans-1,3-Dichloropropene[d]	µg/m^3	6.1	21	31	88			0.091 U	-	-	-	R	R	0.091 U	0.091 U
Trichloroethene	µg/m^3	4.3	2.1	30	8.8	10	2	0.16 U	-	-	-	R	R	0.54 J	0.16 U
Trichlorofluoromethane (CFC-11)	µg/m^3		730		3100			1.4	-	-	-	R	R	1.3	1.2
Trifluorotrichloroethane (Freon 113)	µg/m^3		31000		130000			0.54 J	-	-	-	R	R	0.55 J	0.55 J
Vinyl bromide (Bromoethene)	µg/m^3	0.76	3.1	3.8	13			0.083 U	-	-	-	R	R	0.083 U	0.083 U
Vinyl chloride	µg/m^3	1.6	100	28	440	4	1	0.074 U	-	-	-	R	R	0.074 U	0.074 U
Xylenes (total)	µg/m^3		100		440			1.7	-	-	-	R	R	0.23 J	1.0
Fixed Gases															
Methane	%	0.05	0.05	0.05	0.05	0.05	0.05	-	-	-	-	0.061 U	R	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0	0.0 Dup 0.0	0.0	0.0 Dup 0.0

TABLE 4.2

SUMMARY OF ROUND 1 INDOOR AIR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Residential IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Mitigation and CSSL for Further Investigation		ODH IA Non-residential	ODH IA Residential	*Parcel 5171, Bldg 4, Outdoor Air*	*Parcel 5171, Bldg 4*	*Parcel 5171, Bldg 4, Outdoor Air*	*Parcel 5172, Bldg 2, Outdoor Air*	*Parcel 5174, Outdoor Air*	*Parcel 3253, Bldg 1*	*Parcel 3253, Bldg 1*
Sample ID:								*OA-38443-011112-JC-059*	*CS-38443-011112-JC-060*	*OA-38443-011212-JC-070*	*OA-38443-010612-JC-016*	*SS-38443-010912-JC-043*	*IA-38443-010312-GL-001*	*IA-38443-010312-GL-002*
Sample Date:								*1/11/2012*	*1/12/2012*	*1/12/2012*	*1/6/2012*	*1/9/2012*	*1/3/2012*	*1/3/2012*
		ELCR	HI	ELCR	HI	Non-residential	Residential	*Duplicate*						
	Units	a	b	c	d	e	f							
Cumulative Risk														
Total HI	µg/m^3		1		1			-	0	-	-	-	0	0
Total Risk	µg/m^3	1E-5		1E-5		1E-5		-	2E-06	-	-	-	5E-06	5E-06
Volatile Organic Compounds														
1,1,1-Trichloroethane	µg/m^3		5200		22000			0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.057 J
1,1,2,2-Tetrachloroethane	µg/m^3	0.42		2.1				0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	0.27 U	-
1,1,2-Trichloroethane	µg/m^3	1.5	0.21	7.7	0.88			0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.10 U	0.027 U
1,1-Dichloroethane	µg/m^3	15		77		63	15	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.010 U
1,1-Dichloroethene	µg/m^3		210		880			0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.020 U
1,2,4-Trichlorobenzene	µg/m^3		2.1		8.8			0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	0.37 U	-
1,2,4-Trimethylbenzene	µg/m^3		7.3		31			0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.041	9.4	0.2	39			0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.031 U
1,2-Dichlorobenzene	µg/m^3		210		880			0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-
1,2-Dichloroethane	µg/m^3	0.94	7.3	4.7	31			0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.075
1,2-Dichloroethene (total)	µg/m^3							0.056 U	1.1	0.056 U	0.056 U	0.056 U	0.056 U	-
1,2-Dichloropropane	µg/m^3	2.4	4.2	12	18			0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3							0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-
1,3,5-Trimethylbenzene	µg/m^3							0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	-
1,3-Butadiene	µg/m^3	0.81	2.1	4.1	8.8			0.022 U	0.022 U	0.022 U	0.022 U	0.022 U	0.099 J	-
1,3-Dichlorobenzene[a]	µg/m^3	2.2	830	11	3500			0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	-
1,4-Dichlorobenzene	µg/m^3	2.2	830	11	3500			0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	-
1,4-Dioxane	µg/m^3	3.2	3100	16	13000			0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	-
2,2,4-Trimethylpentane	µg/m^3							0.17 U	0.17 U	0.17 U	0.24 J	0.31 J	0.17 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		5200		22000			1.4 J	0.99 J	0.84 J	0.84 J	1.3 J	1.7	-
2-Chlorotoluene	µg/m^3							0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-
2-Hexanone	µg/m^3		31		130			0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	-
2-Phenylbutane (sec-Butylbenzene)	µg/m^3							0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	-
4-Ethyl toluene	µg/m^3							0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		3100		13000			0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	-
Acetone	µg/m^3		32000		140000			3.5 J	9.7 J	4.7 J	2.8 J	4.4 J	8.8 J	-
Allyl chloride	µg/m^3	4.1	1	20	4.4			0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	0.059 U	-
Benzene	µg/m^3	3.1	31	16	130	4	1	0.86	0.97	0.65	0.78	0.88	0.69	0.87
Benzyl chloride	µg/m^3	0.5	1	2.5	4.4			0.24 UJ	0.24 UJ	0.24 UJ	0.24 U	0.24 U	0.24 U	-
Bromodichloromethane	µg/m^3	0.66		3.3				0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	-
Bromoform	µg/m^3	22		110				0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-
Bromomethane (Methyl bromide)	µg/m^3		5.2		22			0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	-
Butane	µg/m^3							6.0	4.8	2.5	3.4	5.2	2.3	-
Carbon disulfide	µg/m^3		730		3100			0.21 U	0.71 J	0.34 J	0.21 U	0.21 U	0.21 U	-
Carbon tetrachloride	µg/m^3	4.1	100	20	440			0.44 J	0.48 J	0.43 J	0.50 J	0.40 J	0.40 J	-
Chlorobenzene	µg/m^3		52		220			0.092 U	0.15 J	0.092 U	0.092 U	0.092 U	0.092 U	-
Chlorodifluoromethane	µg/m^3		52000		220000			1.4 J	0.12 U	0.88 J	0.90 J	1.1 J	0.90 J	-
Chloroethane	µg/m^3		10000		44000			0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	-
Chloroform (Trichloromethane)	µg/m^3	1.1	100	5.3	430	400	100	0.15 U	0.15 U	0.15 U	0.24 J	0.15 U	0.15 U	0.14
Chloromethane (Methyl chloride)	µg/m^3		94		390			1.5	0.37 J	1.0 J	1.0	0.99 J	0.99 J	-
cis-1,2-Dichloroethene[b]	µg/m^3		63		260	150	35	0.056 U	1.1	0.056 U	0.056 U	0.056 U	0.056 U	0.0099 U
cis-1,3-Dichloropropene[c]	µg/m^3	6.1	21	31	88			0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	0.073 U	-
Cyclohexane	µg/m^3		6300		26000			0.14 J	0.32 J	0.14 J	0.19 J	0.23 J	0.13 U	-
Cymene (p-Isopropyltoluene)	µg/m^3							0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	-
Dibromochloromethane	µg/m^3	0.9		4.5				0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	-
Dichlorodifluoromethane (CFC-12)	µg/m^3		100		440			3.2	2.5	2.3 J	2.4 J	2.5	2.3 J	-
Ethylbenzene	µg/m^3	9.7	1000	49	4400	1300	300	0.27 J	1.1	0.16 J	0.25 J	0.37 J	0.16 J	-
Hexachlorobutadiene	µg/m^3	1.1		5.6				0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	0.69 U	-
Hexane	µg/m^3		730		3100			0.74	0.66 J	0.48 J	0.60 J	0.94	0.34 J	-
Isopropyl alcohol	µg/m^3							0.091 U	1.8 J	2.1 J	0.091 U	1.3 J	0.091 U	-
Isopropyl benzene	µg/m^3		420		1800			0.15 U	0.32 J	0.15 U	0.15 U	0.15 U	0.15 U	-
m&p-Xylenes	µg/m^3		100		440	800	200	0.79 J	0.94 J	0.44 J	0.64 J	1.2 J	0.44 J	-
Methyl methacrylate	µg/m^3		730		3100			0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-
Methyl tert butyl ether (MTBE)	µg/m^3	94	3100	470	13000			0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	-
Methylene chloride	µg/m^3	960	630	12,000	2600			0.46 J	0.56 J	0.40 J	0.43 J	0.73 U	0.34 J	0.32 U
Naphthalene	µg/m^3	0.72	3.1	3.6	13	15.2	3.67	0.45 UJ	0.45 U	0.45 U	0.45 U	0.45 U	0.45 U	0.037 U
N-Butylbenzene	µg/m^3							0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U	-
N-Decane	µg/m^3							-	-	-	-	-	-	-
N-Dodecane	µg/m^3							-	-	-	-	-	-	-
N-Heptane	µg/m^3							0.46 J	0.52 J	0.24 J	0.35 J	0.62 J	0.32 J	-

TABLE 4.2

SUMMARY OF ROUND 1 INDOOR AIR ANALYTICAL RESULTS - JANUARY 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:								*Parcel 5171, Bldg 4, Outdoor Air*	*Parcel 5171, Bldg 4*	*Parcel 5171, Bldg 4, Outdoor Air*	*Parcel 5172, Bldg 2, Outdoor Air*	*Parcel 5174, Outdoor Air*	*Parcel 3253, Bldg 1*	*Parcel 3253, Bldg 1*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Mitigation and CSSL for Further Investigation		ODH IA	ODH IA	*OA-38443-011112-JC-059*	*CS-38443-011112-JC-060*	*OA-38443-011212-JC-070*	*OA-38443-010612-JC-016*	*SS-38443-010912-JC-043*	*IA-38443-010312-GL-001*	*IA-38443-010312-GL-002*
Sample Date:								*1/11/2012*	*1/12/2012*	*1/12/2012*	*1/6/2012*	*1/9/2012*	*1/3/2012*	*1/3/2012*
		ELCR	HI	ELCR	HI	Non-residential	Residential	*Duplicate*						
	Units	a	b	c	d	e	f							
Nonane	µg/m^3		210		880			-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3							0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	-
N-Undecane	µg/m^3							-	-	-	-	-	-	-
Octane	µg/m^3							-	-	-	-	-	-	-
o-Xylene	µg/m^3		100		440	800	200	0.26 J	0.48 J	0.17 J	0.22 J	0.43 J	0.18 J	-
Pentane	µg/m^3		1000		4400			-	-	-	-	-	-	-
Styrene	µg/m^3		1000		4400			0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-
tert-Butyl alcohol	µg/m^3							0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-
tert-Butylbenzene	µg/m^3							0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	0.26 U	-
Tetrachloroethene	µg/m^3	94	42	470	180	170	40	0.075 U	0.075 U	0.075 U	0.15 J	0.075 U	0.38 J	0.42
Tetrahydrofuran	µg/m^3							2.1 J	0.053 U	0.053 U	0.053 U	0.053 U	0.053 U	-
Toluene	µg/m^3		5200		22000			1.4	3.2	1.2	1.5	2.5	0.89	-
trans-1,2-Dichloroethene	µg/m^3		63		260			0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.020 U
trans-1,3-Dichloropropene[d]	µg/m^3	6.1	21	31	88			0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	0.091 U	-
Trichloroethene	µg/m^3	4.3	2.1	30	8.8	10	2	0.16 U	1.5	0.16 U	0.16 U	2.3	0.16 U	0.070
Trichlorofluoromethane (CFC-11)	µg/m^3		730		3100			1.3	1.2	1.2	1.2	1.4	1.2	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		31000		130000			0.55 J	0.60 J	0.54 J	0.58 J	0.54 J	0.54 J	-
Vinyl bromide (Bromoethene)	µg/m^3	0.76	3.1	3.8	13			0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	0.083 U	-
Vinyl chloride	µg/m^3	1.6	100	28	440	4	1	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.0088 J
Xylenes (total)	µg/m^3		100		440			1.0	1.4	0.60 J	0.86	1.6	0.62 J	-
Fixed Gases														
Methane	%	0.05	0.05	0.05	0.05	0.05	0.05	-	0.10 U	0.065 U	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 D 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 D 0.0	0.0 D 0.0

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m^3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

CSSL - Crawl Space Screening Level

IASL - Indoor Air Screening Level

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

- - Not applicable.

The Residential and Industrial IASLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential and Industrial Air, respectively.

The CSSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential and Industrial Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The CSSLs were derived from the USEPA (May 2012) RSLs by applying default crawl-space-to-indoor-air attenuation factor of 1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

TABLE 4.3

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5054 BUILDING 2
1903 DRYDEN ROAD, VALLEY ASPHALT
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 [2] (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
Office ambient air, without filter	1/10/2012	--	0.2	21.4	0.1	0.0	NM		
Sub-slab probe B (office) without filter		--	1.2	21.2	0.1	0.0	NM		
Warehouse ambient air, without filter		--	0.5	22.8	0.1	0.0	NM		
Sub-slab probe A (warehouse) without filter		--	50.1	4.6	3.9	**7.6**	NM		
Warehouse ambient air, without filter	1/19/2012	10:40	0.1	24.1	0.0	0.0	ND(1)[1]		
Sub-slab probe A (warehouse) without filter		10:58	72.4	5.7	3.1	**5.2**	**>100**		
Sub-slab probe B (office) without filter		11:22	6.2	23.2	0.1	0.0	ND(1)[1]		
Warehouse ambient air, without filter	1/24/2012	11:05	0.0	21.9	0.1	0.0	0		
Sub-slab probe A (warehouse) without filter		11:14	52.7	5.7	3.1	**5.1**	**>100**		
Office ambient air, without filter		10:50	0.0	23.1	0.1	0.0	0		
Sub-slab probe B (office), without filter		10:57	2.5	21.7	0.1	0.0	0		
Office ambient air, without filter	1/31/2012	10:19	0.0	21.5	0.0	0.0	0		
Sub-slab probe B (office) without filter		11:12	5.8	21.4	0.1	0.0	0		
Warehouse ambient air, without filter		10:30	0.0	21.6	0.0	0.0	0		
Sub-slab probe A (warehouse) without filter		11:17	72.4	1.9	3.8	**6.9**	**>100**		
Office ambient air, without filter	2/7/2012	10:14	0.0	21.6	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:54	5.9	21.4	0.1	0.0	0		
Warehouse ambient air, without filter		10:24	0.0	21.8	0.1	0.0	0		
Sub-slab probe A (warehouse) without filter		10:58	67.2	6.3	3.0	**6.5**	**>100**		
Office ambient air, without filter	2/15/2012	11:00	0.1	22.0	0.1	0.0	0		
Sub-slab probe B (office) with filter		13:44	7.9	21.1	0.1	0.0	0		
Sub-slab probe B (office) without filter		13:44	7.9	21.1	0.1	0.0	0		
Warehouse ambient air, without filter		11:02	0.0	22.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:52	52.2	9.8	0.6	**3.7**	**73**		
Sub-slab probe A (warehouse) without filter		13:49	52.2	4.8	3.2	**6.5**	R[3]		
Office ambient air, without filter	2/23/2012	14:00	0.0	20.5	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:42	2.3	20.6	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:42	2.3	20.5	0.1	0.0	0		
Warehouse ambient air, without filter		14:10	0.0	21.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:48	19.5	5.5	0.6	**5.2**	**>100**		
Sub-slab probe A (warehouse) without filter		14:48	19.5	1.6	4.2	**8.2**	**>100**		
Office ambient air, without filter	3/1/2012	12:18	0.0	21.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:43	5.2	22.2	0.0	0.0	0		
Sub-slab probe B (office) without filter		12:44	5.2	22.0	0.1	0.0	0		
Warehouse ambient air, without filter		12:21	0.0	21.4	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		12:55	71.9	6.0	1.2	**5.4**	**>100**		
Sub-slab probe A (warehouse) without filter		12:58	71.9	15.9	1.7	**5.6**	**90[4]**		
Office ambient air, without filter	3/8/2012	7:29	0.0	21.6	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:20	1.4	20.9	0.3	0.0	0		
Warehouse ambient air, without filter		7:35	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:45	20.2	1.3	2.4	**4.8**	**96**		

TABLE 4.3

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5054 BUILDING 2
1903 DRYDEN ROAD, VALLEY ASPHALT
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 [2] (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
Office ambient air, without filter	3/13/2012	7:29	0.0	21.6	0.0	0.0	0		
Sub-slab probe B (office) with filter		7:31	1.0	21.7	0.1	0.0	0		
Sub-slab probe B (office) without filter		7:31	1.0	21.7	0.1	0.0	0		
Warehouse ambient air, without filter		7:35	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		7:51	50.0	1.8	3.1	**6.6**	**>100**		
Sub-slab probe A (warehouse) without filter		7:51	50.0	1.8	5.1	**8.8**	**>100**		
Office ambient air, without filter	3/22/2012	12:15	0.0	19.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:42	1.1	19.4	0.1	0.0	0		
Sub-slab probe B (office) without filter		12:40	1.1	19.7	0.1	0.0	0		
Warehouse ambient air, without filter		12:20	0.0	19.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		12:38	43.8	1.3	4.5	**8.2**	**>100**		
Sub-slab probe A (warehouse) without filter		12:50	43.8	1.2	5.7	**10.4**	**>100**		
Office ambient air, without filter	3/27/2012	10:40	0.0	21.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:52	2.2	21.5	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:54	2.2	21.3	0.1	0.0	0		
Warehouse ambient air, without filter		10:43	0.0	21.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:59	29.7	2.7	4.2	**9.9**	**>100**		
Sub-slab probe A (warehouse) without filter		11:01	29.7	1.7	6.2	**12.0**	**>100**		
Office ambient air, without filter	4/3/2012	12:50	0.0	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:06	4.4	20.8	0.0	0.0	0		
Sub-slab probe B (office) without filter		13:08	4.4	20.7	0.1	0.0	0		
Warehouse ambient air, without filter		12:59	0.0	21.5	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:15	45.1	1.2	2.9	**11.1**	**>100**		
Sub-slab probe A (warehouse) without filter		13:16	45.1	1.0	5.7	**13.3**	**>100**		
Office ambient air, without filter	4/10/2012	11:30	0.0	21.5	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:47	3.9	20.9	0.0	0.0	0		
Sub-slab probe B (office) without filter		11:48	3.9	20.6	0.1	0.0	0		
Warehouse ambient air, without filter		11:40	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:58	74.8	1.2	3.5	**12.7**	**>100**		
Sub-slab probe A (warehouse) without filter		12:01	74.8	1.5	5.4	**15.1**	**>100**		
Office ambient air, without filter	4/17/2012	10:55	0.0	20.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:09	3.0	20.7	0.4	0.0	0		
Sub-slab probe B (office) without filter		11:10	3.0	20.7	0.1	0.0	0		
Warehouse ambient air, without filter		11:15	0.0	21.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:35	34.6	1.0	4.2	**11.9**	**>100**		
Sub-slab probe A (warehouse) without filter		11:42	34.6	0.6	5.5	**14.3**	**>100**		
Office ambient air, without filter	4/26/2012	12:20	0.0	21.7	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:36	4.1	20.0	1.6	0.3[4]	**10[4]**		
Sub-slab probe B (office) without filter		12:38	4.1	20.5	0.1	0.0	ND(1)[1]		
Warehouse ambient air, without filter		11:55	0.0	21.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		12:14	20.5	0.7	3.7	**13.2**	**>100**		
Sub-slab probe A (warehouse) without filter		12:17	20.5	15.9	1.5	**3.2[4]**	**94[4]**		

TABLE 4.3

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5054 BUILDING 2
1903 DRYDEN ROAD, VALLEY ASPHALT
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 [2] (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
Office ambient air, without filter	5/3/2012	9:52	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:08	1.6	20.4	0.2	0.0	0		
Sub-slab probe B (office) without filter		11:10	1.6	20.2	0.1	0.0	0		
Warehouse ambient air, without filter		11:14	0.0	21.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:24	24.4	19.1	0.2	**1.3**	**28**		
Sub-slab probe A (warehouse) without filter		11:25	24.4	17.1	1.1	**2.2**	**57**		
Office ambient air, without filter	5/10/2012	14:27	0.0	21.0	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:36	1.5	21.0	0.4	0.0	0		
Sub-slab probe B (office) without filter		14:38	1.5	20.6	0.2	0.0	0		
Warehouse ambient air, without filter		14:34	0.0	21.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:48	34.9	1.7	2.9	**14**	**>100**		
Sub-slab probe A (warehouse) without filter		14:48	34.9	0.7	5.8	**16.7**	**>100**		
Office ambient air, without filter	5/15/2012		0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:15	1.8	18.5	0.4	0.0	0		
Sub-slab probe B (office) without filter		10:15	1.8	18.9	0.0	0.0	0		
Warehouse ambient air, without filter		9:51	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:59	22.2	1.3	0.8	**13.8**	**>100**		
Sub-slab probe A (warehouse) without filter		9:59	22.2	2.0	5.0	**14.5**	**>100**		
Office ambient air, without filter	5/24/2012		0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:35	2.2	20.3	0.2	0.2	4		
Sub-slab probe B (office) without filter		14:41	2.2	20.3	0.3	0.3	4		
Warehouse ambient air, without filter		14:00	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:15	19.7	1.2	4.3	**14.8**	**>100**		
Sub-slab probe A (warehouse) without filter		14:22	19.7	0.6	3.6	**18.6**	**>100**		
Office ambient air, without filter	5/31/2012	9:40	0.0	20.1	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:53	2.8	20.0	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:06	2.8	19.9	0.3	0.0	0		
Warehouse ambient air, without filter		10:13	0.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:26	46.4	1.1	5.1	**15.3**	**>100**		
Sub-slab probe A (warehouse) without filter		10:50	46.4	1.5	6.5	**17.9**	**>100**		
Office ambient air, without filter	6/7/2012	9:22	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:30	4.6	20.1	0.1	0.0	0		
Sub-slab probe B (office) without filter		9:41	4.6	20.4	0.2	0.0	0		
Warehouse ambient air, without filter		9:49	0.0	21.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:57	82.3	0.4	5.7	**16.3**	**>100**		
Sub-slab probe A (warehouse) without filter		10:04	82.3	1.2	6.3	**19.8**	**>100**		
Office ambient air, without filter	6/14/2012	9:55	0.0	20.2	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:04	11.5	19.9	0.3	0.0	0		
Sub-slab probe B (office) without filter		10:12	11.5	20.0	0.0	0.0	0		
Warehouse ambient air, without filter		10:19	0.0	21.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:32	35.3	8.2	3.5	**11.6**	**>100**		
Sub-slab probe A (warehouse) without filter		10:40	35.3	0.9	6.4	**20.3**	**>100**		

TABLE 4.3

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5054 BUILDING 2
1903 DRYDEN ROAD, VALLEY ASPHALT
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 [2] (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
Office ambient air, without filter	6/19/2012	9:48	0.0	19.7	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:05	3.7	19.3	0.0	0.0	0		
Sub-slab probe B (office) without filter		10:07	3.7	19.1	0.4	0.0	0		
Warehouse ambient air, without filter		9:37	0.0	20.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:08	38.1	1.4	5.7	**16.1**	**>100**		
Sub-slab probe A (warehouse) without filter		10:09	38.1	1.0	6.5	**22.3**	**>100**		
Office ambient air, without filter	6/28/2012	9:13	0.0	20.3	0.1	0.0	0		
Sub-slab probe B (office) with filter		9:29	0.8	19.5	0.1	0.0	0		
Sub-slab probe B (office) without filter		9:29	0.8	19.3	0.4	0.0	0		
Warehouse ambient air, without filter		9:35	0.0	20.4	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		9:49	59.1	17.8	0.4	**3**	**66**		
Sub-slab probe A (warehouse) without filter		9:49	59.1	12.4	2.9	**9**	**>100**		
Office ambient air, without filter	7/3/2012	10:35	0.0	19.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:53	2.7	18.2	0.5	0.0	0		
Sub-slab probe B (office) without filter		10:55	2.7	18.1	0.1	0.0	0		
Warehouse ambient air, without filter		10:44	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:00	54.1	1.2	6.6	**20.7**	**>100**		
Sub-slab probe A (warehouse) without filter		11:02	54.1	1.1	4.1	**17**	**>100**		
Office ambient air, without filter	7/11/2012	14:02	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:10	10.2	18.0	0.6	0.0	0		
Sub-slab probe B (office) without filter		14:10	10.2	18.1	0.5	0.0	0		
Warehouse ambient air, without filter		14:25	0.0	20.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:33	60.3	1.4	7.1	**19.4**	**>100**		
Sub-slab probe A (warehouse) without filter		14:33	60.3	1.3	4.0	**15.2**	**>100**		
Office ambient air, without filter	7/19/2012	14:20	0.0	20.7	0.0	**0.1[4]**	**1[4]**		
Sub-slab probe B (office) with filter		14:27	25.5	18.9	2.7	**0.8[4]**	**7[4]**		
Sub-slab probe B (office) without filter		14:27	25.5	19.0	0.8	0.0	1		
Warehouse ambient air, without filter		14:05	0.0	20.6	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:13	24.2	1.3	7.4	**17.3**	**>100**		
Sub-slab probe A (warehouse) without filter		14:13	24.2	1.3	7.1	**22.7**	**>100**		
Office ambient air, without filter	7/26/2012	9:08	0.0	20.1	0.0	0.0	0		
Sub-slab probe B (office) with filter		9:20	0.3	18.9	0.1	0.0	0		
Sub-slab probe B (office) without filter		9:20	0.3	18.5	0.8	0.0	0		
Warehouse ambient air, without filter		9:25	0.0	20.2	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		9:33	1.1	3.3	4.9	**15.1**	**>100**		
Sub-slab probe A (warehouse) without filter		9:33	1.1	0.6	7.1	**24.7**	**>100**		
Office ambient air, with filter	8/2/2012	8:52	0.6	20.8	0.0	0.0	0	90s	none
Office ambient air, without filter		8:52	0.6	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		8:59	63.2	19.8	0.0	0.0	0		
Sub-slab probe B (office) without filter		8:59	63.2	19.4	0.7	0.0	0		
Warehouse ambient air, with filter		9:05	0.0	20.7	0.0	0.0	0		
Warehouse ambient air, without filter		9:05	0.0	20.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		9:14	115.9	6.6	0.8	**13.2**	**>100**		
Sub-slab probe A (warehouse) without filter		9:14	115.9	6.2	5.2	**15.7**	**>100**		
Office ambient air, with filter	8/7/2012	10:29	--	--	--	--	0	Low 90s	none
Office ambient air, without filter		10:29	0.0	19.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		10:32	--	--	--	--	0		
Sub-slab probe B (office) without filter		10:32	7.4	18.6	0.9	0.0	0		
Warehouse ambient air, with filter		10:40	--	--	--	--	0		
Warehouse ambient air, without filter		10:40	0.0	20.3	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		10:45	--	--	--	--	**>100**		
Sub-slab probe A (warehouse) without filter		10:45	53.7	5.2	5.2	**24.6**	**>100**		

TABLE 4.3

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5054 BUILDING 2
1903 DRYDEN ROAD, VALLEY ASPHALT
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 [2] (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
Office ambient air, with filter	8/16/2012	12:53	0.0	20.5	0.0	0.0	0	80 - low 90s	none
Office ambient air, without filter		12:53	0.0	20.4	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:02	7.7	19.3	0.4	0.0	0		
Sub-slab probe B (office) without filter		13:02	7.7	19.2	0.7	0.0	0		
Warehouse ambient air, with filter		12:57	0.0	20.7	0.1	0.0	0		
Warehouse ambient air, without filter		12:57	0.0	20.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:15	42.5	0.3	5.9	**18.7**	**>100**		
Sub-slab probe A (warehouse) without filter		13:15	42.5	1.6	5.9	**22.6**	**>100**		
Office ambient air, with filter	8/21/2012	15:00	0.0	20.6	0.1	0.0	0	80s	none
Office ambient air, without filter		15:00	0.0	20.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:16	4.3	19.5	0.0	0.0	0		
Sub-slab probe B (office) without filter		15:16	4.3	20.3	0.2	0.0	0		
Warehouse ambient air, with filter		15:20	0.0	20.8	0.0	0.0	0		
Warehouse ambient air, without filter		15:20	0.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:40	46.7	15.4	0.6	**18.9**	**>100**		
Sub-slab probe A (warehouse) without filter		15:40	46.7	14.7	1.7	**23.9**	**>100**		
Office ambient air, without filter	8/30/2012		0.0	20.8	0.0	0.0	0	80s	none
Sub-slab probe B (office) with filter		15:19	0.0	19.3	1.3	**0.2[4]**	**3[4]**		
Sub-slab probe B (office) without filter		15:19	0.0	19.3	1.0	**0.0**	**0**		
Warehouse ambient air, without filter		14:50	0.0	21.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:00	62.7	0.7	6.4	**16.8**	**>100**		
Sub-slab probe A (warehouse) without filter		15:00	62.7	0.4	6.0	**25.1**	**>100**		
Office ambient air, with filter	9/6/2012		0.0	19.8	0.0	0.0	0	80s	rain daily during week of September 2 to 6
Office ambient air, without filter			0.0	19.9	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:24	6.2	18.4	0.8	0.0	0		
Sub-slab probe B (office) without filter		14:24	6.2	18.8	0.8	0.0	0		
Warehouse ambient air, with filter			0.0	20.0	0.0	0.0	0		
Warehouse ambient air, without filter			0.0	20.1	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:47	108.4	0.9	3.7	**17.7**	**>100**		
Sub-slab probe A (warehouse) without filter		14:47	108.4	0.4	5.8	**24.6**	**>100**		
Office ambient air, with filter	9/13/2012		0.0	20.6	0.0	0.0	0	high 70s - low 80s	none
Office ambient air, without filter			0.0	20.6	0.0	0.0	0		
Sub-slab probe B (office) with filter		11:47	2.3	19.5	0.2	0.0	0		
Sub-slab probe B (office) without filter		11:47	2.3	19.2	0.9	0.0	0		
Warehouse ambient air, with filter			0.0	20.8	0.0	0.0	0		
Warehouse ambient air, without filter			0.0	20.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		11:55	35.2	0.6	4.6	**19.0**	**>100**		
Sub-slab probe A (warehouse) without filter		11:55	35.2	0.7	5.6	**22.9**	**>100**		
Office ambient air, with filter	9/20/2012	12:51	0.0	20.8	0.0	0.0	0	high 70s - low 80s	none
Office ambient air, without filter		12:51	0.0	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		12:57	1.1	19.9	0.8	0.0	0		
Sub-slab probe B (office) without filter		12:57	1.1	19.7	0.9	0.0	0		
Warehouse ambient air, with filter		13:05	0.0	21.2	0.2	0.0	0		
Warehouse ambient air, without filter		13:05	0.0	21.4	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		13:13	48.4	1.1	4.8	**16.2**	**>100**		
Sub-slab probe A (warehouse) without filter		13:13	48.4	1.0	5.1	**21.9**	**>100**		

TABLE 4.3

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5054 BUILDING 2
1903 DRYDEN ROAD, VALLEY ASPHALT
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 [2] (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
Office ambient air, with filter	9/27/2012	14:40	0.4	20.8	0.1	0.0	0	60s - 70s	none
Office ambient air, without filter		14:40	0.4	20.8	0.1	0.0	0		
Sub-slab probe B (office) with filter		14:54	3.1	19.4	0.2	0.0	0		
Sub-slab probe B (office) without filter		14:54	3.1	20.0	0.4	0.0	0		
Warehouse ambient air, with filter		14:57	0.6	20.7	0.0	0.0	0		
Warehouse ambient air, without filter		14:57	0.6	20.7	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:05	81.1	1.3	3.3	**15.4**	**>100**		
Sub-slab probe A (warehouse) without filter		15:05	81.1	15.0	1.3	**16.2**	**>100**		
Office ambient air, with filter	10/2/2012	13:35	0.0	21.0	0.0	0.0	0	mid 60s	light rain
Office ambient air, without filter		13:35	0.0	21.0	0.0	0.0	0		
Sub-slab probe B (office) with filter		13:45	1.5	20.2	1.1	0.0	0		
Sub-slab probe B (office) without filter		13:45	1.5	20.1	0.8	0.0	0		
Warehouse ambient air, with filter			0.0	21.0	0.0	0.0	0		
Warehouse ambient air, without filter			0.0	21.0	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:00	91.4	0.5	5.6	**15.5**	**>100**		
Sub-slab probe A (warehouse) without filter		14:00	91.4	0.2	4.9	**21.3**	**>100**		
Office ambient air, with filter	10/18/2012	14:05	0.0	21.3	0.0	0.0	0	mid 70s	none
Office ambient air, without filter		14:05	0.0	21.3	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:46	3.1	21.0	0.3	0.0	0		
Sub-slab probe B (office) without filter		14:46	3.1	21.1	0.6	0.0	0		
Warehouse ambient air, with filter		14:11	0.0	21.4	0.0	0.0	0		
Warehouse ambient air, without filter		14:11	0.0	21.4	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:51	59.6	0.7	3.6	**15.0**	**>100**		
Sub-slab probe A (warehouse) without filter		14:51	59.6	1.6	4.2	**18.0**	**>100**		
Office ambient air, with filter	10/25/2012	13:54	0.0	20.0	0.1	0.0	0	70s	none
Office ambient air, without filter		13:54	0.0	19.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:15	0.6	19.7	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:15	0.6	19.7	0.5	0.0	0		
Warehouse ambient air, with filter		14:00	0.0	20.9	0.0	0.0	0		
Warehouse ambient air, without filter		14:00	0.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:29	48.8	0.2	4.0	**14.3**	**>100**		
Sub-slab probe A (warehouse) without filter		14:29	48.8	0.2	4.2	**17.9**	**>100**		
Office ambient air, with filter	10/30/2012	14:15	0.0	22.0	0.1	0.0	0	30s - 40s	snow & rain
Office ambient air, without filter		14:15	0.0	22.0	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:51	0.3	20.4	0.1	0.0	0		
Sub-slab probe B (office) without filter		14:51	0.3	20.4	0.6	0.0	0		
Warehouse ambient air, with filter		14:24	0.0	22.1	0.1	0.0	0		
Warehouse ambient air, without filter		14:24	0.0	27.2	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:15	15.5	0.6	2.4	**14.5**	**>100**		
Sub-slab probe A (warehouse) without filter		15:15	15.5	0.4	4.0	**17.7**	**>100**		

TABLE 4.3

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5054 BUILDING 2
1903 DRYDEN ROAD, VALLEY ASPHALT
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 [2] (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
Office ambient air, with filter	11/8/2012	14:57	0.9	21.5	0.0	0.0	0	30s - 40s	none
Office ambient air, without filter		14:57	0.9	21.5	0.0	0.0	0		
Sub-slab probe B (office) with filter		15:32	2.0	20.1	0.7	0.0	0		
Sub-slab probe B (office) without filter		15:32	2.0	20.1	0.4	0.0	0		
Warehouse ambient air, with filter		14:44	1.0	20.9	0.1	0.0	0		
Warehouse ambient air, without filter		14:44	1.0	20.9	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:44	83.6	0.3	2.9	**14.0**	**>100**		
Sub-slab probe A (warehouse) without filter		15:44	83.6	0.5	3.6	**16.0**	**>100**		
Office ambient air, with filter	11/15/2012	14:24	0.0	22.3	0.1	0.0	0	30s - 40s	none
Office ambient air, without filter		14:24	0.0	22.4	0.1	0.0	0		
Sub-slab probe B (office) with filter		15:26	0.0	20.7	1.2	0.0	0		
Sub-slab probe B (office) without filter		15:26	0.0	21.1	0.4	0.0	0		
Warehouse ambient air, with filter		14:31	0.0	22.5	0.1	0.0	0		
Warehouse ambient air, without filter		14:31	0.0	22.5	0.1	0.0	0		
Sub-slab probe A (warehouse) with filter		15:53	21.9	0.3	3.0	**13.2**	**>100**		
Sub-slab probe A (warehouse) without filter		15:53	21.9	0.2	3.5	**16.4**	**>100**		
Office ambient air, with filter	11/20/2012	13:53	0.0	20.8	0.0	0.0	0	50s	Trace
Office ambient air, without filter		13:53	0.0	20.8	0.0	0.0	0		
Sub-slab probe B (office) with filter		14:48	0.0	20.3	1.2	0.0	0		
Sub-slab probe B (office) without filter		14:48	0.0	20.5	0.3	0.0	0		
Warehouse ambient air, with filter		13:50	0.0	20.8	0.0	0.0	0		
Warehouse ambient air, without filter		13:50	0.0	20.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		15:00	79.6	0.1	3.4	**14.0**	**>100**		
Sub-slab probe A (warehouse) without filter		15:00	79.6	0.1	3.5	**17.5**	**>100**		
Office ambient air, with filter	11/29/2012	13:16	0.5	21.2	0.1	0.0	0	40s - 50s	None
Office ambient air, without filter		13:16	0.5	21.2	0.1	0.0	0		
Sub-slab probe B (office) with filter		14:13	0.9	20.3	0.6	0.0	0		
Sub-slab probe B (office) without filter		14:13	0.9	20.3	0.4	0.0	0		
Warehouse ambient air, with filter		13:31	0.5	21.8	0.0	0.0	0		
Warehouse ambient air, without filter		13:31	0.5	21.8	0.0	0.0	0		
Sub-slab probe A (warehouse) with filter		14:29	32.5	0.4	3.2	**13.1**	**>100**		
Sub-slab probe A (warehouse) without filter		14:29	32.5	0.3	3.2	**16.1**	**>100**		

Notes:

[1] - The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

[2] - The Landtec GEM 2000 combustible gas monitor measures explosive gases as a percent of methane by volume. The presence of other hydrocarbon gases affects methane readings.

[3] - Value was rejected (R) due to suspected transcription error or meter malfunction.

[4] - Anomalous Value. Suspected instrument carry-over or transcription error.

PID - Photoionization Detector
O2 - Oxygen
CO2 - Carbon Dioxide
CH4 - Methane
LEL - Lower Explosive Limit
NM - Not measured
Value - Value is greater than screening levels for rapid response (USEPA, 2010).
- Unfiltered value is lower than filtered value, indicating either a transcription error, or issue with sampling or data quality.

TABLE 4.4

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5173 BUILDING 1
2031 DRYDEN ROAD, SIM TRAINER
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location: Parcel / Building / Probe	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
5173 / 1 / Storage area ambient air, without filter	1/19/2012	11:50	0.9	22.1	0.1	0	ND(1)[1]		
5173 / 1 / C / Storage area, without filter		12:01	391	7.5	2.7	**0.9**	**19**		
5173 / 1 / Storage area ambient air, without filter	1/24/2012	10:00	0	21.5	0	0	0		
5173 / 1 / C / Storage area, without filter		10:09	96.7	5.5	2.8	**0.9**	**19**		
5173 / 1 / Storage area ambient air, without filter	1/31/2012	10:50	1	21.6	0	0	0		
5173 / 1 / C / Storage area, without filter		11:14	182.7	5.5	3.1	**1.1**	**25**		
5173 / 1 / Storage area ambient air, without filter	2/7/2012	10:44	0.1	21.7	0.1	0	0		
5173 / 1 / C / Storage area, without filter		10:56	142.3	10.9	1.8	**0.9**	**21**		
5173 / 1 / Storage area ambient air, without filter	2/16/2012	10:40	0.1	20.5	0.1	0	0		
5173 / 1 / C / Storage area with filter		11:04	79.4	14.1	3.1	**0.5**	**10**		
5173 / 1 / C / Storage area without filter		11:04	79.4	18.1	0.3	0.2	3		
5173 / 1 / Storage area ambient air, without filter	3/1/2012	11:36	0.1	21.4	0	0	0		
5173 / 1 / C / Storage area with filter		12:46	196.5	13.8	0.2	0.3	7		
5173 / 1 / C / Storage area without filter		12:48	196.5	16.9	1.5	0.4	9		
5173 / 1 / Storage area ambient air	3/13/2012	9:32	0	20.1	0.8	0	0		
5173 / 1 / C / Storage area with filter		10:20	101.2	1	3.3	**0.8**	**18**		
5173 / 1 / C / Storage area without filter			101.2	0.4	4.7	**1.4**	**27**		
5173 / 1 / A ambient air without filter		9:57	0	21	0.1	0	0		
5173 / 1 / A with filter		10:15	0	16.9	3	0	0		
5173 / 1 / B ambient air without filter		9:30	0	21.4	0	0	0		
5173 / 1 / B with filter		9:48	0.2	9.1	7.9	0	0		
5173 / 1 / Storage area ambient air, without filter	3/22/2012	11:50	0	20.5	0	0	0		
5173 / 1 / C / Storage area with filter		12:44	105.8	3.2	1.2	**0.7**	**11**		
5173 / 1 / C / Storage area without filter		12:47	105.8	3	5.1	**1.1**	**24**		
5173 / 1 / Storage area ambient air, without filter	3/27/2012		0.1	21.5	0	0	0		
5173 / 1 / C / Storage area with filter			17.1	3.9	1.9	**0.9**	**17**		
5173 / 1 / C / Storage area without filter		10:56	17.1	5.9	5.4	**1.2**	**26**		
5173 / 1 / Storage area ambient air, without filter	4/3/2012	12:30	0	21	0	0	0		
5173 / 1 / C / Storage area with filter		13:09	136.8	1.9	0.4	**0.8**	**19**		
5173 / 1 / C / Storage area without filter		13:10	136.8	1.7	5.1	**1.4**	**29**		
5173 / 1 / Storage area ambient air, without filter	4/10/2012	11:05	0	21.6	0	0	0		
5173 / 1 / C / Storage area with filter		11:52	206.1	3	0.5	**0.8**	**19**		
5173 / 1 / C / Storage area without filter		11:53	206.1	3.1	1.2	**0.9**	**27**		
5173 / 1 / Storage area ambient air, without filter	4/17/2012	10:15	0	21.5	0	0	0		
5173 / 1 / C / Storage area with filter		10:32	129.8	2.3	2.2	**0.9**	**19**		
5173 / 1 / C / Storage area without filter		10:37	129.8	1.5	5.5	**1.4**	**28**		
5173 / 1 / Storage area ambient air, without filter	4/26/2012	11:13	0	21	0	0	0		
5173 / 1 / C / Storage area with filter		11:27	120.7	2.2	1.7	**0.9**	**10**		
5173 / 1 / C / Storage area without filter		11:31	120.7	14.9	1.6	**0.5**	**12**		
5173 / 1 / Storage area ambient air, without filter	5/3/2012	11:33	0	20.2	0.1	0	0		
5173 / 1 / C / Storage area with filter		11:45	122.1	15.2	0.8	0.3	5		
5173 / 1 / C / Storage area without filter		11:48	122.1	9.5	3.4	**0.7**	**14**		
5173 / 1 / Storage area ambient air, without filter	5/10/2012	13:58	0	20.6	0	0	0		
5173 / 1 / C / Storage area with filter		14:10	167.9	10.7	0.9	**0.6**	**14**		
5173 / 1 / C / Storage area without filter		14:11	167.9	7.8	3.8	**0.9**	**18**		
5173 / 1 / Storage area ambient air, without filter	5/15/2012		0	20.1	0	0	0		
5173 / 1 / C / Storage area with filter			80.4	10.7	0.2	**0.5**	**10**		
5173 / 1 / C / Storage area without filter			80.4	20.8	0.3	0.1	2		
5173 / 1 / Storage area ambient air, without filter	5/24/2012	13:15	0.0	20.8	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:39	107.1	1.2	6.2	**0.9**	**18**		
5173 / 1 / C / Storage area without filter		13:47	107.1	2.2	6.4	**1.3**	**26**		
5173 / 1 / Storage area ambient air, without filter	5/31/2012	11:04	0.0	20.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		11:14	116.6	8.7	1.5	0.3	7		
5173 / 1 / C / Storage area without filter		11:20	116.6	16.8	2.0	**0.7**	**27**		
5173 / 1 / Storage area ambient air, without filter	6/7/2012	10:24	0.0	20.9	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		10:33	102.2	0.9	6.2	**1.1**	**22**		
5173 / 1 / C / Storage area without filter		10:44	102.2	1.8	7.0	**1.4**	**28**		
5173 / 1 / Storage area ambient air, without filter	6/14/2012	10:55	0.0	20.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		11:07	72.0	5.5	3.5	**0.7**	**20**		
5173 / 1 / C / Storage area without filter		11:13	72.0	3.8	4.3	**1.0**	**21**		

TABLE 4.4

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5173 BUILDING 1
2031 DRYDEN ROAD, SIM TRAINER
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location: Parcel / Building / Probe	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
5173 / 1 / Storage area ambient air, without filter	6/19/2012	10:33	0.0	20.2	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		10:55	78.0	1.8	2.3	**1.3**	**26**		
5173 / 1 / C / Storage area without filter		10:57	78.0	1.3	7.3	**2.2**	**43**		
5173 / 1 / Storage area ambient air, without filter	6/28/2012	10:01	0.0	20.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		10:11	65.7	5.8	3.2	**0.7**	**21**		
5173 / 1 / C / Storage area without filter		10:11	65.7	3.7	4.7	**1.1**	**27**		
5173 / 1 / Storage area ambient air, without filter	7/3/2012	10:15	0.0	19.7	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		10:56	68.0	1.9	7.6	**1.7**	**36**		
5173 / 1 / C / Storage area without filter		10:58	68.0	1.9	6.4	**1.3**	**25**		
5173 / 1	7/11/2012	Access unavailable							
5173 / 1 / Storage area ambient air, without filter	7/19/2012	13:15	0.1	20.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:40	65.9	1.7	6.5	**1.8**	**38**		
5173 / 1 / C / Storage area without filter		13:40	65.9	1.6	7.9	**2.6**	**51**		
5173 / 1 / Storage area ambient air, without filter	7/26/2012	9:45	0.0	20.2	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		9:54	0.0	2.4	6.2	**1.9**	**43**		
5173 / 1 / C / Storage area without filter		9:54	0.0	1.0	7.7	**3.2**	**63**		
5173 / 1 / Storage area ambient air, with filter	8/2/2012	9:40	0.0	20.6	0.0	0.0	0	90s	none
5173 / 1 / Storage area ambient air, without filter		9:40	0.0	20.7	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		9:52	79.6	9.2	0.1	**1.1**	**17**		
5173 / 1 / C / Storage area without filter		9:52	79.6	6.9	5.3	**1.8**	**38**		
5173 / 1 / Storage area ambient air, with filter	8/7/2012	9:57	--	--	--	--	0	low 90s	none
5173 / 1 / Storage area ambient air, without filter		9:57	0.3	20.7	0.1	0.0	0		
5173 / 1 / C / Storage area with filter		10:06	--	--	--	--	**43**		
5173 / 1 / C / Storage area without filter		10:06	116.5	3.7	6.7	**2.9**	**57**		
5173 / 1 / A / Office area ambient air with filter	8/16/2012	11:55	0.1	20.3	0.0	0.0	0	80 - low 90s	none
5173 / 1 / A / Office area ambient air without filter		11:55	0.1	20.2	0.0	0.0	0		
5173 / 1 / A / Office area with filter		11:58	2.5	19.5	0.3	0.0	0		
5173 / 1 / A / Office area without filter		11:58	2.5	19.7	0.9	0.0	0		
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		11:52	0.3	20.6	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		11:52	0.3	20.6	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		12:26	100.7	0.5	6.1	**2.2**	**47**		
5173 / 1 / C / Storage area without filter		12:26	100.7	1.3	6.7	**3.1**	**62**		
5173 / 1 / A / Office area ambient air with filter	8/21/2012	14:05	0.0	21.1	0.0	0.0	0	80s	none
5173 / 1 / A / Office area ambient air without filter		14:05	0.0	21.0	0.0	0.0	0		
5173 / 1 / A / Office area with filter		14:20	2.0	19.5	0.1	0.0	0		
5173 / 1 / A / Office area without filter		14:20	2.0	19.7	0.8	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:45	0.0	20.4	0.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:45	0.0	20.4	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		13:55	2.3	4.4	12.2	0.0	0		
5173 / 1 / B / Firing Range without filter		13:55	2.3	6.3	11.0	0.0	0		
5173 / 1 / Storage area ambient air, with filter		14:25	0.0	21.1	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		14:25	0.0	21.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		14:37	110.9	0.5	5.0	**2.1**	**42**		
5173 / 1 / C / Storage area without filter		14:37	110.9	4.8	5.1	**2.3**	**46**		
5173 / 1 / A / Office area ambient air without filter	8/30/2012		0.0	20.0	0.0	0.0	0	80s	none
5173 / 1 / A / Office area with filter		13:44	0.5	19.5	0.9	0.0	0		
5173 / 1 / A / Office area without filter		13:44	0.5	19.4	1.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:57	0.0	20.7	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		14:07	1.2	5.5	11.0	0.0	0		
5173 / 1 / B / Firing Range without filter		14:07	1.2	5.3	11.6	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:03	0.0	20.5	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:21	39.1	1.4	3.8	**1.9**	**39**		
5173 / 1 / C / Storage area without filter		13:21	39.1	0.9	6.6	**2.8**	**57**		

TABLE 4.4

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5173 BUILDING 1
2031 DRYDEN ROAD, SIM TRAINER
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location: Parcel / Building / Probe	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
5173 / 1 / A / Office area ambient air with filter	9/6/2012		0.0	20.6	0.0	0.0	0	80s	rain daily during week of September 2 to 6
5173 / 1 / A / Office area ambient air without filter			0.0	20.8	0.0	0.0	0		
5173 / 1 / A / Office area with filter		14:07	3.8	19.4	0.1	0.0	0		
5173 / 1 / A / Office area without filter		14:07	3.8	19.2	0.9	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter			0.0	20.3	0.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter			0.0	20.4	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		14:00	3.8	62.0	9.9	0.0	0		
5173 / 1 / B / Firing Range without filter		14:00	3.8	63.0	11.4	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	20.3	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	20.2	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:41	140.4	0.9	5.0	**1.9**	**38**		
5173 / 1 / C / Storage area without filter		13:41	140.4	0.8	6.3	**2.8**	**58**		
5173 / 1 / A / Office area ambient air with filter	9/13/2012		0.0	20.9	0.0	0.0	0	high 70s - low 80s	none
5173 / 1 / A / Office area ambient air without filter			0.0	20.7	0.0	0.0	0		
5173 / 1 / A / Office area with filter		12:08	0.5	19.6	0.2	0.0	0		
5173 / 1 / A / Office area without filter		12:08	0.5	19.2	1.0	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter			0.0	21.3	0.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter			0.0	21.1	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		12:23	1.9	5.8	9.7	0.0	0		
5173 / 1 / B / Firing Range without filter		12:23	1.9	5.5	11.8	0.0	0		
5173 / 1 / Storage area ambient air, with filter			0.0	21.2	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter			0.0	21.2	0.0	0.0	0		
5173 / 1 / C / Storage area with filter			60.2	0.8	5.1	**2.3**	**45**		
5173 / 1 / C / Storage area without filter			60.2	1.0	6.0	**2.7**	**55**		
5173 / 1 / A / Office area ambient air with filter	9/20/2012	11:55	0.0	20.3	0.1	0.0	0	low 70s	none
5173 / 1 / A / Office area ambient air without filter		11:55	0.0	20.3	0.0	0.0	0		
5173 / 1 / A / Office area with filter		12:04	0.6	18.0	0.2	0.0	0		
5173 / 1 / A / Office area without filter		12:04	0.6	17.8	1.5	0.0	0		
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		12:15	0.0	20.9	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		12:15	0.0	20.9	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		12:23	88.5	1.9	4.5	**2.0**	**41**		
5173 / 1 / C / Storage area without filter		12:23	88.5	1.8	5.3	**2.6**	**52**		
5173 / 1/ SIM Trainer	9/27/2012	Inaccessible						60s - 70s	none
5173 / 1 / A / Office area ambient air with filter	10/2/2012	13:05	0.0	21.1	0.0	0.0	0	mid 60s	light rain
5173 / 1 / A / Office area ambient air without filter		13:05	0.0	21.1	0.0	0.0	0		
5173 / 1 / A / Office area with filter		13:09	0.7	15.6	0.7	0.0	0		
5173 / 1 / A / Office area without filter		13:09	0.7	17.4	1.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		12:50	0.0	20.9	0.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		12:50	0.0	20.9	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		13:00	0.7	4.6	10.3	0.0	0		
5173 / 1 / B / Firing Range without filter		13:00	0.7	4.7	10.5	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:13	0.0	21.2	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:13	0.0	21.2	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:17	57.3	0.8	5.8	**2.0**	**40**		
5173 / 1 / C / Storage area without filter		13:17	57.3	0.9	5.0	**2.8**	**56**		
5173 / 1 / A / Office area ambient air with filter	10/18/2012	13:15	0.0	21.2	0.1	0.0	0	mid 70s	none
5173 / 1 / A / Office area ambient air without filter		13:15	0.0	21.3	0.0	0.0	0		
5173 / 1 / A / Office area with filter		13:44	0.8	16.3	2.4	0.0	0		
5173 / 1 / A / Office area without filter		13:44	0.8	16.2	2.5	0.0	0		
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		13:17	0.0	21.3	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:17	0.0	21.3	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		13:50	104.2	1.8	3.8	**1.5**	**30**		
5173 / 1 / C / Storage area without filter		13:50	104.2	1.9	4.3	**1.9**	**38**		

TABLE 4.4

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5173 BUILDING 1
2031 DRYDEN ROAD, SIM TRAINER
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location: Parcel / Building / Probe	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
5173 / 1 / A / Office area ambient air with filter	10/25/2012	13:35	0.0	21.0	0.1	0.0	0	70s	none
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.0	0.1	0.0	0		
5173 / 1 / A / Office area with filter		14:17	2.4	15.6	0.8	0.0	0		
5173 / 1 / A / Office area without filter		14:17	2.4	15.2	2.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:06	0.0	20.5	0.1	0.0	1^R		
5173 / 1 / B / Firing Range ambient air without filter		13:06	0.0	20.3	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		14:20	1.0	3.8	9.6	0.0	0		
5173 / 1 / B / Firing Range without filter		14:20	1.0	4.1	10.0	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	21.0	0.1	0.0	1^R		
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	20.9	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		14:24	72.9	1.3	3.7	**1.5**	**31**		
5173 / 1 / C / Storage area without filter		14:24	72.9	1.4	4.1	**2.0**	**41**		
5173 / 1 / A / Office area ambient air with filter	10/30/2012	13:35	0.0	21.9	0.1	0.0	0	30s - 40s	snow & rain
5173 / 1 / A / Office area ambient air without filter		13:35	0.0	21.9	0.1	0.0	0		
5173 / 1 / A / Office area with filter		14:55	1.6	14.2	1.8	0.0	0		
5173 / 1 / A / Office area without filter		14:55	1.6	14.3	3.2	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:48	0.0	21.3	0.1	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:48	0.0	21.4	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		15:02	1.6	4.0	9.5	0.0	0		
5173 / 1 / B / Firing Range without filter		15:02	1.6	4.1	10.5	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:20	0.0	22.2	0.1	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:20	0.0	22.1	0.1	0.0	0		
5173 / 1 / C / Storage area with filter		15:06	79.5	1.2	4.3	**1.6**	**34**		
5173 / 1 / C / Storage area without filter		15:06	79.5	1.4	4.1	**2.1**	**43**		
5173 / 1 / A / Office area ambient air with filter	11/8/2012	14:02	1.4	21.4	0.1	0.0	0	30s - 40s	none
5173 / 1 / A / Office area ambient air without filter		14:02	1.4	21.5	0.1	0.0	0		
5173 / 1 / A / Office area with filter		15:21	4.2	13.7	3.2	0.0	0		
5173 / 1 / A / Office area without filter		15:21	4.2	13.7	3.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		14:15	1.2	21.0	0.0	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		14:15	1.2	21.1	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		15:26	1.8	4.5	9.5	0.0	0		
5173 / 1 / B / Firing Range without filter		15:26	1.8	4.8	9.9	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:35	1.3	20.9	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:35	1.3	21.1	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		15:36	165.5	1.2	3.2	**1.4**	**27**		
5173 / 1 / C / Storage area without filter		15:36	165.5	2.2	3.5	**1.6**	**33**		
5173 / 1 / A / Office area ambient air with filter	11/15/2012	13:37	0.0	21.7	0.2	0.0	0	30s - 40s	none
5173 / 1 / A / Office area ambient air without filter		13:37	0.0	21.8	0.1	0.0	0		
5173 / 1 / A / Office area with filter		15:32	0.0	14.3	3.3	0.0	0		
5173 / 1 / A / Office area without filter		15:32	0.0	14.6	3.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:58	0.0	21.7	0.1	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:58	0.0	21.9	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		15:43	0.0	4.3	9.5	0.0	0		
5173 / 1 / B / Firing Range without filter		15:43	0.0	4.5	9.8	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:15	0.0	21.8	0.2	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:15	0.0	21.4	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		15:45	92.6	1.4	2.5	**1.0**	**21**		
5173 / 1 / C / Storage area without filter		15:45	92.6	1.4	3.4	**1.3**	**27**		
5173 / 1 / A / Office area ambient air with filter	11/20/2012	13:03	0.0	20.9	0.1	0.0	0	50s	Trace
5173 / 1 / A / Office area ambient air without filter		13:03	0.0	20.9	0.1	0.0	0		
5173 / 1 / A / Office area with filter		14:45	0.0	13.8	3.2	0.0	0		
5173 / 1 / A / Office area without filter		14:45	0.0	13.9	3.6	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		13:09	0.0	21.0	0.1	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		13:09	0.0	21.1	0.0	0.0	0		
5173 / 1 / B / Firing Range with filter		14:50	0.0	4.6	9.7	0.0	0		
5173 / 1 / B / Firing Range without filter		14:50	0.0	4.7	10.1	0.0	0		
5173 / 1 / Storage area ambient air, with filter		13:08	0.0	20.9	0.1	0.0	0		
5173 / 1 / Storage area ambient air, without filter		13:08	0.0	21.0	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		14:53	183.7	13.6	1.3	**0.4**	**9**		
5173 / 1 / C / Storage area without filter		14:53	183.7	10.8	1.8	**0.8**	**16**		

TABLE 4.4

WEEKLY COMBUSTIBLE GAS MEASUREMENTS - PARCEL 5173 BUILDING 1
2031 DRYDEN ROAD, SIM TRAINER
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location: *Parcel / Building / Probe*	*Date:*	*Time*	*PID (ppm)*	*O2 (%)*	*CO2 (%)*	*CH4 (%)*	*LEL (%)*	*Ambient Temperature (°F)*	*Summary of Recent Precipitation*
5173 / 1 / A / Office area ambient air with filter	11/29/2012	12:31	0.6	21.3	0.1	0.0	0	40s - 50s	None
5173 / 1 / A / Office area ambient air without filter		12:31	0.6	21.3	0.1	0.0	0		
5173 / 1 / A / Office area with filter		14:05	1.8	13.1	4.0	0.0	0		
5173 / 1 / A / Office area without filter		14:05	1.8	13.3	4.1	0.0	0		
5173 / 1 / B / Firing Range ambient air with filter		12:40	0.4	21.2	0.1	0.0	0		
5173 / 1 / B / Firing Range ambient air without filter		12:40	0.4	21.2	0.1	0.0	0		
5173 / 1 / B / Firing Range		Inaccessible due to Firing Range operation							
5173 / 1 / Storage area ambient air, with filter		12:37	0.3	21.3	0.0	0.0	0		
5173 / 1 / Storage area ambient air, without filter		12:37	0.3	21.3	0.0	0.0	0		
5173 / 1 / C / Storage area with filter		14:23	120.4	2.4	2.8	**1.1**	**22**		
5173 / 1 / C / Storage area without filter		14:23	120.4	2.2	3.0	**1.5**	**30**		

Notes:

[1] - The explosive gas monitor baseline reading was 1 percent LEL. The meter did not zero for LEL readings and the corresponding methane readings were 0 percent; therefore, the readings of 1 percent are anomalous.

2 - Combustible Gas measurements from SIM Trainer were not collected during the week of February 20th, due to range closure.
R - Value was rejected (R) as the LEL reading did not correspond to the methane reading of 0 percent.
PID - Photoionization Detector
O2 - Oxygen
CO2 - Carbon Dioxide
CH4 - Methane
LEL - Lower Explosive Limit
Value - Value is greater than screening levels for rapid response (USEPA, 2010).
- Unfiltered value is lower than filtered value, indicating a likely issue with sampling or data quality.

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 3207, Bldg 1, Probe A*	*Parcel 3207, Bldg 1, Probe B*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe E*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe C*
Sample ID:					*SS-38443-031012-JC-132*	*SS-38443-031012-JC-135*	*SS-38443-031012-JC-136*	*SS-38443-031012-JC-138*	*SS-38443-031012-JC-139*	*SS-38443-030912-JC-121*	*SS-38443-031012-JC-141*	*SS-38443-031012-JC-142*	*SS-38443-031012-JC-143*	*SS-38443-031012-JC-153*	*SS-38443-030912-JC-123*
Sample Date:					*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*
Sample Type:		ELCR	HI	Non-residential											
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m³		1		0	0	0	0	0	-	1	-	2[b]	-	-
Total Risk	µg/m³	1E-5			1E-06	4E-08	1E-06	2E-07	1E-07	-	2E-06	-	6E-06	-	-
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		220000		2.0	0.20 J	1.8	0.16 U	0.29 J	-	1.5 J	-	18	-	-
1,1,2,2-Tetrachloroethane	µg/m³	21			0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	-	0.84 U	-	0.42 U	-	-
1,1,2-Trichloroethane	µg/m³	77	8.8		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	0.59 U	-	0.29 U	-	-
1,1-Dichloroethane	µg/m³	770		630	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	-	0.21 U	-	0.11 U	-	-
1,1-Dichloroethene	µg/m³		8800		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	0.25 U	-	0.13 U	-	-
1,2,4-Trichlorobenzene	µg/m³		88		0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	-	1.5 UJ	-	0.73 UJ	-	-
1,2,4-Trimethylbenzene	µg/m³		310		16	0.31 U	0.31 U	0.31 U	0.31 U	-	0.62 U	-	0.65 J	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	2.0	390		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	-	0.68 U	-	0.34 U	-	-
1,2-Dichlorobenzene	µg/m³		8800		0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	-	0.84 U	-	0.42 U	-	-
1,2-Dichloroethane	µg/m³	47	310		0.19 U	0.19 U	0.22 J	0.19 U	0.19 U	-	0.38 U	-	0.19 U	-	-
1,2-Dichloroethene (total)	µg/m³				-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	120	180		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-	0.48 U	-	0.24 U	-	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	0.63 J	-	0.22 U	-	-
1,3,5-Trimethylbenzene	µg/m³				35	0.32 U	0.82 J	0.32 U	0.32 U	-	0.64 U	-	0.32 U	-	-
1,3-Butadiene	µg/m³	41	88		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	-	0.28 U	-	0.14 U	-	-
1,3-Dichlorobenzene[a]	µg/m³	110	35000		0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	-	0.78 U	-	0.39 U	-	-
1,4-Dichlorobenzene	µg/m³	110	35000		0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	-	0.77 U	-	0.38 U	-	-
1,4-Dioxane	µg/m³	160	130000		0.29 U	0.29 UJ	0.96 J	0.29 J	0.29 U	-	0.58 UJ	-	0.29 UJ	-	-
2,2,4-Trimethylpentane	µg/m³				1.5 J	0.18 U	5.1	0.18 U	0.18 U	-	0.36 U	-	0.18 U	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		220000		3.0	0.97 J	1.6 J	1.8 J	0.59 U	-	1.2 U	-	0.79 J	-	-
2-Chlorotoluene	µg/m³				0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	-	0.65 U	-	0.33 U	-	-
2-Hexanone	µg/m³		1300		0.52 J	0.24 UJ	0.24 U	0.24 U	0.24 U	-	0.48 UJ	-	0.24 UJ	-	-
2-Phenylbutane (sec-Butylbenzene)	µg/m³				1.3 J	0.35 U	0.35 U	0.35 U	0.35 U	-	0.70 U	-	0.35 U	-	-
4-Ethyl toluene	µg/m³				6.7	0.32 U	0.53 J	0.32 U	0.32 U	-	0.65 U	-	0.32 U	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m³		130000		0.18 U	0.18 UJ	0.18 U	0.29 J	0.18 U	-	0.37 UJ	-	0.18 UJ	-	-
Acetone	µg/m³		1400000		30	13	19	33	11 J	-	9.3 J	-	4.7 J	-	-
Allyl chloride	µg/m³	200	44		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	-	0.30 U	-	0.15 U	-	-
Benzene	µg/m³	160	1300	40	6.2	0.18 U	9.8	0.21 J	0.18 U	-	0.36 U	-	0.18 U	-	-
Benzyl chloride	µg/m³	25	44		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	-	0.81 U	-	0.40 U	-	-
Bromodichloromethane	µg/m³	33			0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	0.59 U	-	0.29 U	-	-
Bromoform	µg/m³	1,100			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	-	0.99 U	-	0.50 U	-	-
Bromomethane (Methyl bromide)	µg/m³		220		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	-	0.25 U	-	0.12 U	-	-
Butane	µg/m³				35	0.46 J	49	18	5.4	-	2.4	-	1.1	-	-
Carbon disulfide	µg/m³		31000		0.21 J	0.097 U	0.39 J	1.7	0.097 U	-	0.73 J	-	0.57 J	-	-
Carbon tetrachloride	µg/m³	200	4400		0.37 J	0.25 J	0.24 U	0.43 J	0.37 J	-	0.48 U	-	0.81 J	-	-
Chlorobenzene	µg/m³		2200		0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	-	0.45 U	-	0.23 U	-	-
Chlorodifluoromethane	µg/m³		2200000		2.0	5.5	3.9	2.5	3.7	-	2.0	-	1.6	-	-
Chloroethane	µg/m³		440000		0.49 J	0.092 U	0.17 J	0.35 J	0.092 U	-	0.18 U	-	0.092 U	-	-
Chloroform (Trichloromethane)	µg/m³	53	4300	4000	0.19 J	0.19 U	0.23 J	0.28 J	0.19 U	-	0.37 U	-	0.34 J	-	-
Chloromethane (Methyl chloride)	µg/m³		3900		0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	-	0.66 U	-	0.33 U	-	-
cis-1,2-Dichloroethene[b]	µg/m³		2600	1500	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-	2.1	-	0.37 J	-	-
cis-1,3-Dichloropropene[c]	µg/m³	310	880		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	-	0.67 U	-	0.34 U	-	-
Cyclohexane	µg/m³		260000		7.4	0.14 U	11	0.14 U	0.14 U	-	0.28 U	-	0.14 U	-	-
Cymene (p-Isopropyltoluene)	µg/m³				1.3	0.31 U	0.55 J	0.31 U	0.31 U	-	0.63 U	-	0.31 U	-	-
Dibromochloromethane	µg/m³	45			0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	-	0.72 U	-	0.36 U	-	-
Dichlorodifluoromethane (CFC-12)	µg/m³		4400		2.4	1.9	4.8	2.2	2.5	-	4.8	-	1.7	-	-
Ethylbenzene	µg/m³	490	44000	13000	3.6	0.30 U	4.1	0.30 U	0.30 U	-	0.59 U	-	0.30 U	-	-
Hexachlorobutadiene	µg/m³	56			0.83 U	0.83 UJ	0.83 U	0.83 U	0.83 U	-	1.7 UJ	-	0.83 UJ	-	-
Hexane	µg/m³		31000		6.3	0.16 J	12	0.41 J	0.40 J	-	0.28 J	-	0.26 J	-	-
Isopropyl alcohol	µg/m³				24	4.3 J	12	7.6	4.1 J	-	1.5 J	-	0.81 J	-	-
Isopropyl benzene	µg/m³		18000		17	0.29 U	1.1 J	0.29 U	0.29 U	-	0.59 U	-	0.29 U	-	-
m&p-Xylenes	µg/m³		4400	8000	16	0.52 U	5.4	0.52 U	0.52 U	-	1.0 U	-	0.52 U	-	-
Methyl methacrylate	µg/m³		31000		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	-	0.65 U	-	0.32 U	-	-
Methyl tert butyl ether (MTBE)	µg/m³	4,700	130000		0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	-	1.2 U	-	0.61 U	-	-
Methylene chloride	µg/m³	120,000	26000		0.89 J	1.3 J	2.0	0.84 J	1.5 J	-	2.2 J	-	1.1 J	-	-
Naphthalene	µg/m³	36	130	15.2	1.3 J	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	-	0.94 UJ	-	0.47 UJ	-	-
N-Butylbenzene	µg/m³				5.1	0.25 U	0.25 U	0.25 U	0.25 U	-	0.51 U	-	0.25 U	-	-
N-Decane	µg/m³				-	-	-	-	-	-	0.65 U	-	-	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3207, Bldg 1, Probe A*	*Parcel 3207, Bldg 1, Probe B*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe E*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe C*
Sample ID:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*SS-38443-031012-JC-132*	*SS-38443-031012-JC-135*	*SS-38443-031012-JC-136*	*SS-38443-031012-JC-138*	*SS-38443-031012-JC-139*	*SS-38443-030912-JC-121*	*SS-38443-031012-JC-141*	*SS-38443-031012-JC-142*	*SS-38443-031012-JC-143*	*SS-38443-031012-JC-153*	*SS-38443-030912-JC-123*
Sample Date:					*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*
Sample Type:		ELCR	HI	Non-residential											
	Units	*a*	*b*	*c*											
N-Dodecane	µg/m^3				-	-	-	-	-	-	1.1 UJ	-	-	-	-
N-Heptane	µg/m^3				3.3	0.19 U	6.1	0.19 U	0.19 U	-	0.39 U	-	0.19 U	-	-
Nonane	µg/m^3		8800		-	-	-	-	-	-	0.45 U	-	-	-	-
N-Propylbenzene	µg/m^3				1.2 J	0.28 U	0.28 U	0.28 U	0.28 U	-	0.55 U	-	0.28 U	-	-
N-Undecane	µg/m^3				-	-	-	-	-	-	0.79 UJ	-	-	-	-
Octane	µg/m^3				-	-	-	-	-	-	0.34 U	-	-	-	-
o-Xylene	µg/m^3		4400	8000	18	0.26 U	3.2	0.26 U	0.26 U	-	0.53 U	-	0.26 U	-	-
Pentane	µg/m^3		44000		-	-	-	-	-	-	0.35 U	-	-	-	-
Styrene	µg/m^3		44000		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	-	0.49 U	-	0.25 U	-	-
tert-Butyl alcohol	µg/m^3				12	0.66 J	21	6.3	0.37 J	-	0.36 J	-	0.38 J	-	-
tert-Butylbenzene	µg/m^3				1.9 J	0.36 U	0.36 U	0.36 U	0.36 U	-	0.72 U	-	0.36 U	-	-
Tetrachloroethene	µg/m^3	4700	1800	1700	20	7.4	23	8.7	9.2	-	200	-	490	-	-
Tetrahydrofuran	µg/m^3				4.1	0.19 U	7.4	0.36 J	0.19 U	-	0.37 U	-	0.19 U	-	-
Toluene	µg/m^3		220000		18	0.53 J	32	0.65 J	0.63 J	-	0.73 J	-	0.54 J	-	-
trans-1,2-Dichloroethene	µg/m^3		2600		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	1.1 J	-	0.20 U	-	-
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	0.44 U	-	0.22 U	-	-
Trichloroethene	µg/m^3	300	88	100	4.4	0.27 J	4.8	1.9	2.1	-	41	-	160[bc]	-	-
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		2.4	1.7	7.2	1.6	2.1	-	14	-	2.0	-	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		0.57 J	0.48 J	1.1 J	0.49 J	0.57 J	-	0.84 J	-	0.69 J	-	-
Vinyl bromide (Bromoethene)	µg/m^3	38	130		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	-	0.31 U	-	0.15 U	-	-
Vinyl chloride	µg/m^3	280	4400	40	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	-	0.36 U	-	0.18 U	-	-
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%				-	-	-	-	-	-	-	0.20 U	-	0.20 U	-
Ethene	%				-	-	-	-	-	-	-	0.20 U	-	0.20 U	-
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	-	-	-	-	-	-	0.18 U	-	0.18 U	-
Methane, field, unfiltered	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-
Radon															
Radon-222	pCi/L				-	-	-	-	-	774 +/-39	-	-	-	-	852 +/-43

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe E*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 5054, Bldg 1 Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe B*
Sample ID:					*SS-38443-031012-JC-146*	*SS-38443-031012-JC-147*	*SS-38443-030912-JC-125*	*SS-38443-031012-JC-149*	*SS-38443-031012-JC-150*	*SS-38443-030912-JC-127*	*SS-38443-030912-JC-128*	*SS-38443-031012-JC-152*	*SS-38443-031312-JC-156*	*SS-38443-031312-JC-159*	*SS-38443-031312-JC-160*	*SS-38443-031312-JC-163*
Sample Date:					*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/9/2012*	*3/10/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*
Sample Type:		ELCR	HI	Non-residential							*Duplicate*					
	Units	*a*	*b*	*c*												
Cumulative Risk																
Total HI	µg/m³		1		0	-	-	0	0	-	-	0	22[b]	1	-	2[b]
Total Risk	µg/m³	1E-5			4E-07	-	-	7E-08	1E-07	-	-	2E-08	6E-05[a]	2E-05[a]	-	7E-06
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m³		220000		6.1	-	-	8.2	4.1	-	-	8.8	8.6 J	47 U	-	0.46 J
1,1,2,2-Tetrachloroethane	µg/m³	21			0.42 U	-	-	0.42 U	0.42 U	-	-	0.42 U	16 U	120 U	-	0.42 U
1,1,2-Trichloroethane	µg/m³	77	8.8		0.29 U	-	-	0.29 U	0.29 U	-	-	0.29 U	11 U	84 U	-	0.29 U
1,1-Dichloroethane	µg/m³	770		630	0.11 U	-	-	0.11 U	0.11 U	-	-	0.11 U	4.0 U	85 J	-	6.7
1,1-Dichloroethene	µg/m³		8800		0.13 U	-	-	0.13 U	0.13 U	-	-	0.13 U	4.8 U	36 U	-	0.13 U
1,2,4-Trichlorobenzene	µg/m³		88		0.73 UJ	-	-	0.73 UJ	0.73 UJ	-	-	0.73 UJ	27 U	210 U	-	0.73 U
1,2,4-Trimethylbenzene	µg/m³		310		0.31 U	-	-	0.31 U	0.31 U	-	-	1.9	12 U	270 J	-	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	2.0	390		0.34 U	-	-	0.34 U	0.34 U	-	-	0.34 U	13 U	97 U	-	0.34 U
1,2-Dichlorobenzene	µg/m³		8800		0.42 U	-	-	0.42 U	0.42 U	-	-	0.42 U	16 U	120 U	-	0.42 U
1,2-Dichloroethane	µg/m³	47	310		0.19 U	-	-	0.19 U	0.19 U	-	-	0.19 U	7.2 U	54 U	-	0.19 U
1,2-Dichloroethene (total)	µg/m³				-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	120	180		0.24 U	-	-	0.24 U	0.24 U	-	-	0.24 U	9.1 U	69 U	-	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				0.22 U	-	-	0.22 U	0.22 U	-	-	0.22 U	8.4 U	64 U	-	0.22 U
1,3,5-Trimethylbenzene	µg/m³				0.32 U	-	-	0.32 U	0.32 U	-	-	0.32 U	12 U	91 U	-	0.32 U
1,3-Butadiene	µg/m³	41	88		0.14 U	-	-	0.14 U	0.14 U	-	-	0.14 U	5.3 U	41 U	-	0.14 U
1,3-Dichlorobenzene[a]	µg/m³	110	35000		0.39 U	-	-	0.39 U	0.39 U	-	-	0.39 U	15 U	110 U	-	0.39 U
1,4-Dichlorobenzene	µg/m³	110	35000		0.38 U	-	-	0.38 U	0.38 U	-	-	0.38 U	14 U	110 UJ	-	0.38 U
1,4-Dioxane	µg/m³	160	130000		0.29 UJ	-	-	0.29 UJ	0.29 UJ	-	-	0.29 UJ	11 U	83 U	-	0.29 U
2,2,4-Trimethylpentane	µg/m³				0.18 U	-	-	0.18 U	0.18 U	-	-	0.18 U	6.9 U	4400	-	0.33 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		220000		1.1 J	-	-	0.59 U	0.76 J	-	-	0.59 U	22 U	170 U	-	0.59 U
2-Chlorotoluene	µg/m³				0.33 U	-	-	0.33 U	0.33 U	-	-	0.33 U	12 U	93 U	-	0.33 U
2-Hexanone	µg/m³		1300		0.24 UJ	-	-	0.24 UJ	0.24 UJ	-	-	0.24 UJ	9.0 U	68 U	-	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³				0.35 U	-	-	0.35 U	0.35 U	-	-	0.52 J	13 U	100 U	-	0.35 U
4-Ethyl toluene	µg/m³				0.32 U	-	-	0.32 U	0.32 U	-	-	0.32 U	12 U	93 U	-	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m³		130000		0.18 UJ	-	-	0.18 UJ	0.18 UJ	-	-	0.18 UJ	6.9 U	53 U	-	0.18 U
Acetone	µg/m³		1400000		7.8 J	-	-	4.5 J	5.6 J	-	-	3.5 J	130 U	1900 J	-	5.3 J
Allyl chloride	µg/m³	200	44		0.15 U	-	-	0.15 U	0.15 U	-	-	0.15 U	5.7 U	43 U	-	0.15 U
Benzene	µg/m³	160	1300	40	0.18 U	-	-	0.18 U	0.18 U	-	-	0.18 U	6.7 U	310[ac]	-	0.33 J
Benzyl chloride	µg/m³	25	44		0.40 U	-	-	0.40 U	0.40 U	-	-	0.40 U	15 U	120 U	-	0.40 U
Bromodichloromethane	µg/m³	33			0.29 U	-	-	0.29 U	0.29 U	-	-	0.29 U	11 U	84 U	-	0.29 U
Bromoform	µg/m³	1,100			0.50 U	-	-	0.50 U	0.50 U	-	-	0.50 U	19 U	140 U	-	0.50 U
Bromomethane (Methyl bromide)	µg/m³		220		0.12 U	-	-	0.12 U	0.12 U	-	-	0.12 U	4.7 U	36 U	-	0.12 U
Butane	µg/m³				0.81 J	-	-	2.2	1.5	-	-	5.7	5.7 U	4300 J	-	10
Carbon disulfide	µg/m³		31000		0.28 J	-	-	0.097 U	0.097 U	-	-	0.16 J	3.6 U	28 U	-	0.097 U
Carbon tetrachloride	µg/m³	200	4400		0.38 J	-	-	0.24 U	0.24 U	-	-	0.24 U	9.0 U	68 U	-	0.32 J
Chlorobenzene	µg/m³		2200		0.23 U	-	-	0.23 U	0.23 U	-	-	0.30 J	8.5 U	65 U	-	0.23 U
Chlorodifluoromethane	µg/m³		2200000		0.91	-	-	0.77	1.1	-	-	6.0	8.5 J	1100 J	-	16
Chloroethane	µg/m³		440000		0.092 U	-	-	0.092 U	0.092 U	-	-	0.092 U	3.5 U	120 J	-	0.092 U
Chloroform (Trichloromethane)	µg/m³	53	4300	4000	0.19 U	-	-	0.19 U	0.19 U	-	-	0.19 U	7.0 U	53 U	-	3.8
Chloromethane (Methyl chloride)	µg/m³		3900		0.33 U	-	-	0.33 U	0.33 U	-	-	0.46 J	12 U	95 U	-	0.33 U
cis-1,2-Dichloroethene[b]	µg/m³		2600	1500	0.24 U	-	-	0.24 U	0.24 U	-	-	0.26 J	23 J	68 U	-	35
cis-1,3-Dichloropropene[c]	µg/m³	310	880		0.34 U	-	-	0.34 U	0.34 U	-	-	0.34 U	13 U	96 U	-	0.34 U
Cyclohexane	µg/m³		260000		0.14 U	-	-	0.14 U	0.14 U	-	-	0.14 U	5.2 U	6000	-	0.14 U
Cymene (p-Isopropyltoluene)	µg/m³				0.31 U	-	-	0.31 U	0.31 U	-	-	0.33 J	12 U	90 U	-	0.31 U
Dibromochloromethane	µg/m³	45			0.36 U	-	-	0.36 U	0.36 U	-	-	0.36 U	13 U	100 U	-	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m³		4400		0.88 J	-	-	1.4	0.86 J	-	-	0.71 J	13 U	96 U	-	2.1
Ethylbenzene	µg/m³	490	44000	13000	0.30 U	-	-	0.30 U	0.30 U	-	-	0.32 J	11 U	85 U	-	0.53 J
Hexachlorobutadiene	µg/m³	56			0.83 UJ	-	-	0.83 UJ	0.83 UJ	-	-	0.83 UJ	31 U	240 U	-	0.83 U
Hexane	µg/m³		31000		0.16 J	-	-	0.11 U	0.21 J	-	-	0.91 J	4.2 U	2600	-	1.2 J
Isopropyl alcohol	µg/m³				1.8 J	-	-	1.8 J	1.2 J	-	-	0.97 J	4.1 U	52 J	-	0.66 J
Isopropyl benzene	µg/m³		18000		0.29 U	-	-	0.29 U	0.29 U	-	-	0.29 U	11 U	84 U	-	0.29 U
m&p-Xylenes	µg/m³		4400	8000	0.52 U	-	-	1.5	0.52 U	-	-	1.1	20 U	150 U	-	1.9
Methyl methacrylate	µg/m³		31000		0.32 U	-	-	0.32 U	0.32 U	-	-	0.32 U	12 U	5000	-	0.32 U
Methyl tert butyl ether (MTBE)	µg/m³	4,700	130000		0.61 U	-	-	0.61 U	0.61 U	-	-	0.61 U	23 U	180 U	-	0.61 U
Methylene chloride	µg/m³	120,000	26000		0.72 J	-	-	0.56 J	0.94 J	-	-	3.3	9.9 J	840	-	7.0
Naphthalene	µg/m³	36	130	15.2	0.47 UJ	-	-	0.47 UJ	0.47 UJ	-	-	0.47 UJ	18 U	140 U	-	0.47 U
N-Butylbenzene	µg/m³				0.25 U	-	-	0.25 U	0.25 U	-	-	0.55 J	9.5 U	72 U	-	0.25 U
N-Decane	µg/m³				-	-	-	-	-	-	-	-	-	93 U	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe E*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 5054, Bldg 1 Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe B*
Sample ID:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*SS-38443-031012-JC-146*	*SS-38443-031012-JC-147*	*SS-38443-030912-JC-125*	*SS-38443-031012-JC-149*	*SS-38443-031012-JC-150*	*SS-38443-030912-JC-127*	*SS-38443-030912-JC-128*	*SS-38443-031012-JC-152*	*SS-38443-031312-JC-156*	*SS-38443-031312-JC-159*	*SS-38443-031312-JC-160*	*SS-38443-031312-JC-163*
Sample Date:					*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/9/2012*	*3/10/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*
Sample Type:		ELCR	HI	Non-residential							*Duplicate*					
	Units	*a*	*b*	*c*												
N-Dodecane	µg/m³				-	-	-	-	-	-	-	-	-	160 U	-	-
N-Heptane	µg/m³				0.19 U	-	-	0.19 U	0.19 U	-	-	0.19 U	7.3 U	190 J	-	0.26 J
Nonane	µg/m³		8800		-	-	-	-	-	-	-	-	-	65 U	-	-
N-Propylbenzene	µg/m³				0.28 U	-	-	0.28 U	0.28 U	-	-	0.28 U	10 U	79 U	-	0.28 U
N-Undecane	µg/m³				-	-	-	-	-	-	-	-	-	110 U	-	-
Octane	µg/m³				-	-	-	-	-	-	-	-	-	48 U	-	-
o-Xylene	µg/m³		4400	8000	0.26 U	-	-	0.49 J	0.26 U	-	-	0.78 J	10.0 U	76 U	-	0.48 J
Pentane	µg/m³		44000		-	-	-	-	-	-	-	-	-	2100	-	-
Styrene	µg/m³		44000		0.25 U	-	-	0.25 U	0.25 U	-	-	0.25 U	9.3 U	71 U	-	0.25 U
tert-Butyl alcohol	µg/m³				0.38 J	-	-	0.24 J	0.57 J	-	-	0.23 J	4.3 U	33 U	-	0.31 J
tert-Butylbenzene	µg/m³				0.36 U	-	-	0.36 U	0.36 U	-	-	0.36 U	14 U	100 U	-	0.36 U
Tetrachloroethene	µg/m³	4700	1800	1700	100	-	-	32	49	-	-	4.3	64	78 U	-	3.4
Tetrahydrofuran	µg/m³				0.19 U	-	-	0.19 U	0.19 U	-	-	0.19 U	7.0 U	53 U	-	0.19 U
Toluene	µg/m³		220000		0.39 J	-	-	0.76	0.67 J	-	-	2.5	7.7 U	230	-	2.9
trans-1,2-Dichloroethene	µg/m³		2600		0.20 U	-	-	0.20 U	0.20 U	-	-	0.20 U	7.5 U	57 U	-	0.20 U
trans-1,3-Dichloropropene[d]	µg/m³	310	880		0.22 U	-	-	0.22 U	0.22 U	-	-	0.22 U	8.2 U	62 U	-	0.22 U
Trichloroethene	µg/m³	300	88	100	4.7	-	-	0.19 U	0.19 U	-	-	0.19 U	**1900[abc]**	55 U	-	**170[bc]**
Trichlorofluoromethane (CFC-11)	µg/m³		31000		5.8	-	-	10.0	12	-	-	7.7	5.1 U	130 J	-	2.0
Trifluorotrichloroethane (Freon 113)	µg/m³		1300000		0.50 J	-	-	0.41 J	0.37 J	-	-	0.34 J	9.0 U	68 U	-	0.46 J
Vinyl bromide (Bromoethene)	µg/m³	38	130		0.15 U	-	-	0.15 U	0.15 U	-	-	0.15 U	5.8 U	44 U	-	0.15 U
Vinyl chloride	µg/m³	280	4400	40	0.18 U	-	-	0.18 U	0.18 U	-	-	0.18 U	6.8 U	**61 J[c]**	-	0.18 U
Xylenes (total)	µg/m³		4400		-	-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																
Ethane	%				-	0.21 U	-	-	-	-	-	-	-	0.19 U	0.20 U	-
Ethene	%				-	0.21 U	-	-	-	-	-	-	-	0.19 U	0.20 U	-
Helium	%				-	-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	0.19 U	-	-	-	-	-	-	-	**6.6[abc]**	**6.2[abc]**	-
Methane, field, unfiltered	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	0.0	**8.8[abc]**	**8.8[abc]**	0.0
Methane, field, filtered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-	-	0.0 Dup 0.0	0.0 Dup 0.0	**6.6 Dup 6.8[abc]**	**6.6 Dup 6.8[abc]**	0.0 Dup 0.0
Radon																
Radon-222	pCi/L				-	-	908 +/-45	-	-	723 +/-36	773 +/-39	-	-	-	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 5054, Bldg 2, Probe B*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe B*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe D*
Sample ID:					*SS-38443-031312-JC-164*	*SS-38443-031312-JC-168*	*SS-38443-031312-JC-169*	*SS-38443-031312-JC-172*	*SS-38443-031312-JC-173*	*SS-38443-031412-JC-184*	*SS-38443-031412-JC-199*	*SS-38443-031412-JC-185*	*SS-38443-031412-JC-187*	*SS-38443-031412-JC-201*	*SS-38443-031412-JC-188*
Sample Date:					*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*
Sample Type:		ELCR	HI	Non-residential			*Duplicate*								
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m³		1		-	4[b]	-	22[b]	-	59[b]	-	2[b]	1	-	24[b]
Total Risk	µg/m³	1E-5			-	1E-05	-	7E-05[a]	-	2E-04[a]	-	7E-06	5E-06	-	7E-05[a]
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		220000		-	63	57	39	-	18 U	-	2.3 J	1.8 J	-	10 J
1,1,2,2-Tetrachloroethane	µg/m³	21			-	2.1 U	2.1 U	11 U	-	45 U	-	2.1 U	4.4 U	-	12 U
1,1,2-Trichloroethane	µg/m³	77	8.8		-	1.5 U	1.5 U	7.7 U	-	32 U	-	1.5 U	3.1 U	-	8.5 U
1,1-Dichloroethane	µg/m³	770		630	-	0.53 U	0.53 U	25	-	11 U	-	0.53 U	1.1 U	-	3.0 U
1,1-Dichloroethene	µg/m³		8800		-	0.63 U	0.63 U	3.3 U	-	14 U	-	0.63 U	1.3 U	-	3.6 U
1,2,4-Trichlorobenzene	µg/m³		88		-	3.6 U	3.6 U	19 U	-	78 U	-	3.6 U	7.7 U	-	21 U
1,2,4-Trimethylbenzene	µg/m³		310		-	1.5 U	1.5 U	8.1 U	-	33 U	-	1.5 U	3.3 U	-	8.9 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	2.0	390		-	1.7 U	1.7 U	8.8 U	-	36 U	-	1.7 U	3.6 U	-	9.7 U
1,2-Dichlorobenzene	µg/m³		8800		-	2.1 U	2.1 U	11 U	-	45 U	-	2.1 U	4.5 U	-	12 U
1,2-Dichloroethane	µg/m³	47	310		-	0.95 U	0.95 U	4.9 U	-	20 U	-	0.95 U	2.0 U	-	5.5 U
1,2-Dichloroethene (total)	µg/m³				-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	120	180		-	1.2 U	1.2 U	6.2 U	-	26 U	-	1.2 U	2.5 U	-	6.9 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				-	2.2 J	1.9 J	12 J	-	24 U	-	1.1 U	2.4 U	-	6.4 U
1,3,5-Trimethylbenzene	µg/m³				-	1.6 U	1.6 U	8.3 U	-	34 U	-	1.6 U	3.4 UJ	-	9.2 U
1,3-Butadiene	µg/m³	41	88		-	0.71 U	0.71 U	3.7 U	-	15 U	-	0.71 U	1.5 U	-	4.1 U
1,3-Dichlorobenzene[a]	µg/m³	110	35000		-	2.0 U	2.0 U	10 U	-	42 U	-	2.0 U	4.1 U	-	11 U
1,4-Dichlorobenzene	µg/m³	110	35000		-	1.9 U	1.9 U	10 UJ	-	41 UJ	-	1.9 UJ	4.1 U	-	11 UJ
1,4-Dioxane	µg/m³	160	130000		-	1.4 U	1.4 U	7.5 U	-	31 U	-	1.4 U	3.1 U	-	8.3 U
2,2,4-Trimethylpentane	µg/m³				-	0.91 U	0.91 U	4.7 U	-	20 U	-	2.5 J	1.9 U	-	5.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		220000		-	2.9 U	2.9 U	15 U	-	63 U	-	2.9 U	6.3 U	-	17 U
2-Chlorotoluene	µg/m³				-	1.6 U	1.6 U	8.5 U	-	35 U	-	1.6 U	3.5 U	-	9.4 U
2-Hexanone	µg/m³		1300		-	1.2 U	1.2 U	6.2 U	-	25 U	-	1.2 U	2.5 U	-	6.8 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³				-	1.8 U	1.8 U	9.1 U	-	38 U	-	1.8 U	3.7 U	-	10 U
4-Ethyl toluene	µg/m³				-	1.6 U	1.6 U	8.4 U	-	35 U	-	1.6 U	3.4 U	-	9.3 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m³		130000		-	0.92 U	0.92 U	4.8 U	-	20 U	-	0.92 U	2.0 U	-	5.3 U
Acetone	µg/m³		1400000		-	17 U	17 U	86 U	-	360 U	-	130	35 U	-	95 U
Allyl chloride	µg/m³	200	44		-	0.75 U	0.75 U	3.9 U	-	16 U	-	0.75 U	1.6 U	-	4.3 U
Benzene	µg/m³	160	1300	40	-	0.89 U	0.89 U	4.7 U	-	19 U	-	3.6	1.9 U	-	5.1 U
Benzyl chloride	µg/m³	25	44		-	2.0 U	2.0 U	10 U	-	43 U	-	2.0 U	4.3 U	-	12 U
Bromodichloromethane	µg/m³	33			-	1.5 U	1.5 U	7.7 U	-	32 U	-	1.5 U	3.1 U	-	8.5 U
Bromoform	µg/m³	1,100			-	2.5 U	2.5 U	13 U	-	53 U	-	2.5 U	5.3 U	-	14 U
Bromomethane (Methyl bromide)	µg/m³		220		-	0.62 U	0.62 U	3.2 U	-	13 U	-	0.62 U	1.3 U	-	3.6 U
Butane	µg/m³				-	6.4	7.6	11 J	-	37 J	-	14 J	2.2 J	-	16 J
Carbon disulfide	µg/m³		31000		-	0.48 U	0.48 U	2.5 U	-	10 U	-	0.48 U	1.0 U	-	2.8 U
Carbon tetrachloride	µg/m³	200	4400		-	1.2 U	1.2 U	6.2 U	-	26 U	-	1.2 U	2.5 UJ	-	6.9 U
Chlorobenzene	µg/m³		2200		-	1.1 U	1.1 U	5.9 U	-	24 U	-	1.1 U	2.4 U	-	6.5 U
Chlorodifluoromethane	µg/m³		2200000		-	2.3 J	3.7	3.4 UJ	-	21 J	-	3.0 J	1.4 U	-	5.6 J
Chloroethane	µg/m³		440000		-	0.46 U	0.46 U	2.4 U	-	9.9 U	-	0.46 U	0.98 U	-	2.7 U
Chloroform (Trichloromethane)	µg/m³	53	4300	4000	-	1.6 J	1.3 J	17 J	-	82 J[a]	-	5.0	6.8 J	-	24 J
Chloromethane (Methyl chloride)	µg/m³		3900		-	1.7 U	1.7 U	8.6 U	-	35 U	-	1.7 U	3.5 U	-	9.5 U
cis-1,2-Dichloroethene[b]	µg/m³		2600	1500	-	1.2 U	1.2 U	15 J	-	110	-	2.2 J	11	-	52
cis-1,3-Dichloropropene[c]	µg/m³	310	880		-	1.7 U	1.7 U	8.7 U	-	36 U	-	1.7 U	3.6 U	-	9.6 U
Cyclohexane	µg/m³		260000		-	0.69 U	0.69 U	3.6 U	-	15 U	-	2.2 J	1.5 U	-	4.0 U
Cymene (p-Isopropyltoluene)	µg/m³				-	1.6 U	1.6 U	8.1 U	-	34 U	-	1.6 U	3.3 U	-	9.0 U
Dibromochloromethane	µg/m³	45			-	1.8 U	1.8 U	9.3 U	-	38 U	-	1.8 U	3.8 U	-	10 U
Dichlorodifluoromethane (CFC-12)	µg/m³		4400		-	2.5 J	2.8 J	8.7 U	-	36 U	-	11	45	-	35 J
Ethylbenzene	µg/m³	490	44000	13000	-	1.5 U	1.5 U	7.7 U	-	32 U	-	1.5 U	3.1 U	-	8.5 U
Hexachlorobutadiene	µg/m³	56			-	4.2 U	4.2 U	22 U	-	89 U	-	4.2 U	8.8 U	-	24 U
Hexane	µg/m³		31000		-	0.56 U	0.73 J	2.9 U	-	12 U	-	36	1.2 J	-	3.2 U
Isopropyl alcohol	µg/m³				-	1.4 J	1.1 J	2.8 U	-	12 U	-	15 J	4.2 J	-	3.1 U
Isopropyl benzene	µg/m³		18000		-	1.5 U	1.5 U	7.7 U	-	32 U	-	1.5 U	3.1 U	-	8.5 U
m&p-Xylenes	µg/m³		4400	8000	-	2.6 U	2.6 U	14 U	-	56 U	-	2.6 U	5.5 U	-	15 U
Methyl methacrylate	µg/m³		31000		-	1.6 U	1.6 U	8.4 U	-	35 U	-	1.6 U	3.4 U	-	9.3 U
Methyl tert butyl ether (MTBE)	µg/m³	4,700	130000		-	3.1 U	3.1 U	16 U	-	66 U	-	3.1 U	6.5 U	-	18 U
Methylene chloride	µg/m³	120,000	26000		-	3.0 J	2.5 J	9.2 J	-	53 J	-	4.2 J	4.1 U	-	20 J
Naphthalene	µg/m³	36	130	15.2	-	2.4 U	2.4 U	12 U	-	51 U	-	2.4 U	5.0 U	-	14 U
N-Butylbenzene	µg/m³				-	1.3 U	1.3 U	6.6 U	-	27 U	-	1.3 U	2.7 U	-	7.2 U
N-Decane	µg/m³				-	-	-	8.5 U	-	-	-	-	10 J	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 5054, Bldg 2, Probe B*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe B*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe D*
Sample ID:					*SS-38443-031312-JC-164*	*SS-38443-031312-JC-168*	*SS-38443-031312-JC-169*	*SS-38443-031312-JC-172*	*SS-38443-031312-JC-173*	*SS-38443-031412-JC-184*	*SS-38443-031412-JC-199*	*SS-38443-031412-JC-185*	*SS-38443-031412-JC-187*	*SS-38443-031412-JC-201*	*SS-38443-031412-JC-188*
Sample Date:					*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*
Sample Type:		ELCR	HI	Non-residential			*Duplicate*								
	Units	*a*	*b*	*c*											
N-Dodecane	µg/m^3				-	-	-	14 U	-	-	-	-	5.8 U	-	-
N-Heptane	µg/m^3				-	0.96 U	0.96 U	5.0 U	-	21 U	-	11	2.2 J	-	5.5 U
Nonane	µg/m^3		8800		-	-	-	5.9 U	-	-	-	-	7.1 J	-	-
N-Propylbenzene	µg/m^3				-	1.4 U	1.4 U	7.2 U	-	29 U	-	1.4 U	2.9 U	-	7.9 U
N-Undecane	µg/m^3				-	-	-	10 U	-	-	-	-	4.2 U	-	-
Octane	µg/m^3				-	-	-	4.4 U	-	-	-	-	1.8 U	-	-
o-Xylene	µg/m^3		4400	8000	-	1.3 U	1.3 U	6.9 U	-	28 U	-	1.3 U	2.8 U	-	7.6 U
Pentane	µg/m^3		44000		-	-	-	4.6 U	-	-	-	-	1.9 U	-	-
Styrene	µg/m^3		44000		-	1.2 U	1.2 U	6.4 U	-	26 U	-	1.2 U	2.6 U	-	7.1 U
tert-Butyl alcohol	µg/m^3				-	0.58 U	0.58 U	3.0 U	-	12 U	-	11 J	4.7 J	-	3.3 U
tert-Butylbenzene	µg/m^3				-	1.8 U	1.8 U	9.4 U	-	39 U	-	1.8 U	3.8 U	-	10 U
Tetrachloroethene	µg/m^3	4700	1800	1700	-	150	120	29 J	-	53 J	-	530	220	-	92
Tetrahydrofuran	µg/m^3				-	0.93 U	0.93 U	4.8 U	-	20 U	-	0.93 U	2.0 U	-	5.3 U
Toluene	µg/m^3		220000		-	2.0 J	1.6 J	5.3 U	-	22 U	-	14	3.7 J	-	5.8 U
trans-1,2-Dichloroethene	µg/m^3		2600		-	0.99 U	0.99 U	5.2 U	-	46 J	-	2.8 J	2.1 U	-	27
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		-	1.1 U	1.1 U	5.7 U	-	23 U	-	1.1 U	2.3 U	-	6.3 U
Trichloroethene	µg/m^3	300	88	100	-	**340[abc]**	**280[bc]**	**1900[abc]**	-	**5200[abc]**	-	**140[bc]**	**92[b]**	-	**2300[abc]**
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		-	1.5 J	1.5 J	3.5 U	-	14 U	-	1.3 J	1.4 U	-	3.9 U
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		-	1.2 U	1.2 U	6.2 U	-	25 U	-	1.2 U	2.5 U	-	6.8 U
Vinyl bromide (Bromoethene)	µg/m^3	38	130		-	0.77 U	0.77 U	4.0 U	-	16 U	-	0.77 U	1.6 U	-	4.4 U
Vinyl chloride	µg/m^3	280	4400	40	-	0.91 U	0.91 U	4.7 U	-	19 U	-	0.91 U	1.9 U	-	5.2 U
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%				0.22 U	-	-	-	0.19 U	-	-	-	0.21 U	-	-
Ethene	%				0.22 U	-	-	-	0.19 U	-	-	-	0.21 U	-	-
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.20 U	-	-	-	0.17 U	-	-	-	0.19 U	-	-
Methane, field, unfiltered	%	0.5	0.5	0.5	0.0	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0
Radon															
Radon-222	pCi/L				-	-	-	-	-	-	455 +/-23	-	-	469 +/-23	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 5171, Bldg 1, Probe D*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5172/1/A Overstreet*	*Parcel 5172/1/A Overstreet*
Sample ID:					*SS-38443-031412-JC-189*	*SS-38443-031412-JC-191*	*SS-38443-031412-JC-203*	*SS-38443-031412-JC-205*	*SS-38443-032712-JC-194*	*SS-38443-032712-JC-194*	*SS-38443-031412-JC-196*	*SS-38443-031412-JC-197*	*SS-38443-031412-JC-207*	*SS-38443-031412-JC-209*	*SS-38443-031512-JC-216*
Sample Date:					*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/26/2012*	*3/27/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/15/2012*
Sample Type:		ELCR	HI	Non-residential	*Duplicate*										
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m³		1		-	0	-	-	-	182[b]	1	-	-	-	159[b]
Total Risk	µg/m³	1E-5			-	1E-06	-	-	-	5E-04[a]	2E-06	-	-	-	5E-04[a]
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		220000		8.7 J	0.24 J	-	-	-	110 J	34 U	-	-	-	74 J
1,1,2,2-Tetrachloroethane	µg/m³	21			12 U	0.42 U	-	-	-	69 U	87 U	-	-	-	29 U
1,1,2-Trichloroethane	µg/m³	77	8.8		8.5 U	0.29 U	-	-	-	49 U	61 U	-	-	-	20 U
1,1-Dichloroethane	µg/m³	770		630	3.0 U	0.11 U	-	-	-	17 U	22 U	-	-	-	24 J
1,1-Dichloroethene	µg/m³		8800		3.6 U	0.13 U	-	-	-	21 U	26 U	-	-	-	8.8 U
1,2,4-Trichlorobenzene	µg/m³		88		21 U	0.73 U	-	-	-	120 U	150 U	-	-	-	50 U
1,2,4-Trimethylbenzene	µg/m³		310		8.9 U	1.1	-	-	-	51 U	110 J	-	-	-	21 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	2.0	390		9.7 U	0.34 U	-	-	-	56 U	70 U	-	-	-	23 U
1,2-Dichlorobenzene	µg/m³		8800		12 U	0.42 U	-	-	-	69 U	88 U	-	-	-	29 U
1,2-Dichloroethane	µg/m³	47	310		5.5 U	0.19 U	-	-	-	31 U	40 U	-	-	-	13 U
1,2-Dichloroethene (total)	µg/m³				-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	120	180		6.9 U	0.24 U	-	-	-	40 U	50 U	-	-	-	17 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				6.4 U	0.22 U	-	-	-	37 U	47 U	-	-	-	15 U
1,3,5-Trimethylbenzene	µg/m³				9.2 U	0.32 U	-	-	-	53 UJ	66 U	-	-	-	22 UJ
1,3-Butadiene	µg/m³	41	88		4.1 U	0.14 U	-	-	-	23 U	29 U	-	-	-	9.8 U
1,3-Dichlorobenzene[a]	µg/m³	110	35000		11 U	0.39 U	-	-	-	64 U	81 U	-	-	-	27 U
1,4-Dichlorobenzene	µg/m³	110	35000		11 UJ	0.38 UJ	-	-	-	63 U	80 UJ	-	-	-	27 U
1,4-Dioxane	µg/m³	160	130000		8.3 U	0.29 U	-	-	-	48 U	60 U	-	-	-	20 U
2,2,4-Trimethylpentane	µg/m³				5.2 U	0.21 J	-	-	-	30 U	96 J	-	-	-	13 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		220000		17 U	2.0 J	-	-	-	97 U	190 J	-	-	-	41 U
2-Chlorotoluene	µg/m³				9.4 U	0.33 U	-	-	-	54 U	68 U	-	-	-	23 U
2-Hexanone	µg/m³		1300		6.8 U	0.24 U	-	-	-	39 U	49 U	-	-	-	16 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³				10 U	0.35 U	-	-	-	58 U	73 U	-	-	-	24 U
4-Ethyl toluene	µg/m³				9.3 U	0.32 U	-	-	-	53 U	67 U	-	-	-	22 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m³		130000		5.3 U	0.18 U	-	-	-	30 U	170 J	-	-	-	13 U
Acetone	µg/m³		1400000		95 U	42	-	-	-	550 U	3200	-	-	-	230 U
Allyl chloride	µg/m³	200	44		4.3 U	0.15 U	-	-	-	25 U	31 U	-	-	-	10 U
Benzene	µg/m³	160	1300	40	5.1 U	0.84	-	-	-	29 U	37 U	-	-	-	12 U
Benzyl chloride	µg/m³	25	44		12 U	0.40 U	-	-	-	67 U	84 U	-	-	-	28 U
Bromodichloromethane	µg/m³	33			8.5 U	0.29 U	-	-	-	49 U	61 U	-	-	-	20 U
Bromoform	µg/m³	1,100			14 U	0.50 U	-	-	-	82 U	100 U	-	-	-	34 U
Bromomethane (Methyl bromide)	µg/m³		220		3.6 U	0.12 U	-	-	-	20 U	26 U	-	-	-	8.6 U
Butane	µg/m³				19 J	9.3 J	-	-	-	25 U	640 J	-	-	-	28 J
Carbon disulfide	µg/m³		31000		2.8 U	0.097 U	-	-	-	16 U	20 U	-	-	-	6.7 U
Carbon tetrachloride	µg/m³	200	4400		6.9 U	0.46 J	-	-	-	39 UJ	50 U	-	-	-	17 UJ
Chlorobenzene	µg/m³		2200		6.5 U	0.23 U	-	-	-	37 U	47 U	-	-	-	16 U
Chlorodifluoromethane	µg/m³		2200000		5.8 J	2.3 J	-	-	-	22 U	62 J	-	-	-	9.1 U
Chloroethane	µg/m³		440000		2.7 U	0.092 U	-	-	-	15 U	19 U	-	-	-	6.4 U
Chloroform (Trichloromethane)	µg/m³	53	4300	4000	24 J	1.1	-	-	-	42 J	39 U	-	-	-	320[a]
Chloromethane (Methyl chloride)	µg/m³		3900		9.5 U	0.33 U	-	-	-	54 U	69 U	-	-	-	23 U
cis-1,2-Dichloroethene[b]	µg/m³		2600	1500	56	0.24 U	-	-	-	39 U	49 U	-	-	-	3700[bc]
cis-1,3-Dichloropropene[c]	µg/m³	310	880		9.6 U	0.34 U	-	-	-	55 U	70 U	-	-	-	23 U
Cyclohexane	µg/m³		260000		4.0 U	0.80 J	-	-	-	23 U	29 U	-	-	-	9.5 U
Cymene (p-Isopropyltoluene)	µg/m³				9.0 U	0.31 U	-	-	-	52 U	65 U	-	-	-	22 U
Dibromochloromethane	µg/m³	45			10 U	0.36 U	-	-	-	59 U	74 U	-	-	-	25 U
Dichlorodifluoromethane (CFC-12)	µg/m³		4400		19 J	3.0	-	-	-	55 U	220	-	-	-	23 U
Ethylbenzene	µg/m³	490	44000	13000	8.5 U	1.8	-	-	-	49 U	81 J	-	-	-	20 U
Hexachlorobutadiene	µg/m³	56			24 U	0.83 U	-	-	-	140 U	170 U	-	-	-	58 U
Hexane	µg/m³		31000		3.2 U	2.0	-	-	-	19 U	23 U	-	-	-	7.8 U
Isopropyl alcohol	µg/m³				3.1 U	5.4	-	-	-	18 U	33 J	-	-	-	7.5 U
Isopropyl benzene	µg/m³		18000		8.5 U	0.44 J	-	-	-	49 U	61 U	-	-	-	20 U
m&p-Xylenes	µg/m³		4400	8000	15 U	5.2	-	-	-	86 U	330	-	-	-	36 U
Methyl methacrylate	µg/m³		31000		9.3 U	0.32 U	-	-	-	53 U	67 U	-	-	-	22 U
Methyl tert butyl ether (MTBE)	µg/m³	4,700	130000		18 U	0.61 U	-	-	-	100 U	130 U	-	-	-	42 U
Methylene chloride	µg/m³	120,000	26000		16 J	1.1 J	-	-	-	67 U	590	-	-	-	27 U
Naphthalene	µg/m³	36	130	15.2	14 U	0.47 U	-	-	-	78 U	98 U	-	-	-	33 U
N-Butylbenzene	µg/m³				7.2 U	0.25 U	-	-	-	42 UJ	53 U	-	-	-	17 U
N-Decane	µg/m³				-	-	-	-	-	-	-	-	-	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5171, Bldg 1, Probe D*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5172/1/A Overstreet*	*Parcel 5172/1/A Overstreet*
Sample ID:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*SS-38443-031412-JC-189*	*SS-38443-031412-JC-191*	*SS-38443-031412-JC-203*	*SS-38443-031412-JC-205*	*SS-38443-032712-JC-194*	*SS-38443-032712-JC-194*	*SS-38443-031412-JC-196*	*SS-38443-031412-JC-197*	*SS-38443-031412-JC-207*	*SS-38443-031412-JC-209*	*SS-38443-031512-JC-216*
Sample Date:					*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/26/2012*	*3/27/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/15/2012*
Sample Type:		ELCR	HI	Non-residential	*Duplicate*										
	Units	*a*	*b*	*c*											
N-Dodecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3				5.5 U	5.6	-	-	-	32 U	430	-	-	-	13 U
Nonane	µg/m^3		8800		-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3				7.9 U	0.28 U	-	-	-	45 U	57 U	-	-	-	19 U
N-Undecane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
Octane	µg/m^3				-	-	-	-	-	-	-	-	-	-	-
o-Xylene	µg/m^3		4400	8000	7.6 U	1.6	-	-	-	44 U	110 J	-	-	-	18 U
Pentane	µg/m^3		44000		-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		44000		7.1 U	0.25 U	-	-	-	41 U	200	-	-	-	17 U
tert-Butyl alcohol	µg/m^3				3.3 U	1.5 J	-	-	-	19 U	24 U	-	-	-	8.0 U
tert-Butylbenzene	µg/m^3				10 U	0.36 U	-	-	-	60 U	75 U	-	-	-	25 U
Tetrachloroethene	µg/m^3	4700	1800	1700	72	5.5	-	-	-	540	56 U	-	-	-	26 J
Tetrahydrofuran	µg/m^3				5.3 U	0.19 U	-	-	-	31 U	39 U	-	-	-	13 U
Toluene	µg/m^3		220000		5.8 U	4.4	-	-	-	180	8500	-	-	-	14 U
trans-1,2-Dichloroethene	µg/m^3		2600		27	0.30 J	-	-	-	33 U	41 U	-	-	-	500
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		6.3 U	0.22 U	-	-	-	36 U	45 U	-	-	-	15 U
Trichloroethene	µg/m^3	300	88	100	**1900[abc]**	29	-	-	-	**16000[abc]**	40 U	-	-	-	**14000[abc]**
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		3.9 U	1.6	-	-	-	42 J	28 U	-	-	-	9.3 U
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		6.8 U	0.53 J	-	-	-	39 U	49 U	-	-	-	16 U
Vinyl bromide (Bromoethene)	µg/m^3	38	130		4.4 U	0.15 U	-	-	-	25 U	32 U	-	-	-	11 U
Vinyl chloride	µg/m^3	280	4400	40	5.2 U	0.18 U	-	-	-	30 U	38 U	-	-	-	13 U
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%				-	-	-	-	-	-	1.8 U	0.19 U	-	-	-
Ethene	%				-	-	-	-	-	-	1.8 U	0.19 U	-	-	-
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	-	-	-	-	-	1.6 U	0.17 U	-	-	-
Methane, field, unfiltered	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	-	-	0	0.0	0.1 Dup 0	0.1 Dup 0	-	-	0.0 Dup 0.0
Radon															
Radon-222	pCi/L				-	-	365 +/-18	202 +/-10	-	-	-	-	275 +/-14	418 +/-21	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 5172/1/B Overstreet*	*Parcel 5172/1/B Overstreet*	*Parcel 5172/1/A S&J*	*Parcel 5172/1/A S&J*	*Parcel 5172/1/A S&J*	*Parcel 5172/1/B S&J*	*Parcel 5172/1/C S&J*	*Parcel 5172/1/C S&J*	*Parcel 5172/1/D S&J*	*Parcel 5172/1/D S&J*	*Parcel 5172, Bldg 2, Probe A*
Sample ID:					*SS-38443-031412-JC-211*	*SS-38443-031512-JC-218*	*SS-38443-030712-JC-097*	*SS-38443-030712-JC-112*	*SS-38443-030712-JC-118*	*SS-38443-030712-JC-113*	*SS-38443-030712-JC-099*	*SS-38443-030712-JC-115*	*SS-38443-030712-JC-102*	*SS-38443-030712-JC-117*	*SS-38443-032812-JC-225*
Sample Date:					*3/14/2012*	*3/15/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/28/2012*
Sample Type:		ELCR	HI	Non-residential					*Duplicate*						
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m³		1		-	**330[b]**	-	**87[b]**	-	**341[b]**	-	**11[b]**	-	**57[b]**	1
Total Risk	µg/m³	1E-5			-	**1E-03[a]**	-	**3E-04[a]**	-	**1E-03[a]**	-	**3E-05[a]**	-	**2E-04[a]**	**1E-04[a]**
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		220000		-	37 U	-	11 U	12 U	36 U	-	2.0 J	-	46 J	5.7 U
1,1,2,2-Tetrachloroethane	µg/m³	21			-	95 U	-	29 U	30 U	93 U	-	4.2 U	-	32 U	14 U
1,1,2-Trichloroethane	µg/m³	77	8.8		-	67 U	-	21 U	21 U	65 U	-	2.9 U	-	22 U	10 U
1,1-Dichloroethane	µg/m³	770		630	-	24 U	-	7.4 U	7.4 U	23 U	-	1.1 U	-	8.0 U	**3900[ac]**
1,1-Dichloroethene	µg/m³		8800		-	29 U	-	8.9 U	9.0 U	28 U	-	1.3 U	-	9.6 U	12 J
1,2,4-Trichlorobenzene	µg/m³		88		-	160 U	-	51 U	51 U	160 UJ	-	7.3 UJ	-	55 U	25 U
1,2,4-Trimethylbenzene	µg/m³		310		-	70 U	-	22 U	22 U	69 U	-	3.1 U	-	23 U	11 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	2.0	390		-	77 U	-	24 U	24 U	75 U	-	3.4 U	-	26 U	12 U
1,2-Dichlorobenzene	µg/m³		8800		-	95 U	-	30 U	30 U	93 U	-	4.2 U	-	32 U	15 U
1,2-Dichloroethane	µg/m³	47	310		-	43 U	-	13 U	13 U	42 U	-	1.9 U	-	14 U	6.6 U
1,2-Dichloroethene (total)	µg/m³				-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	120	180		-	54 U	-	17 U	17 U	53 U	-	2.4 U	-	18 U	8.3 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				-	51 U	-	16 U	16 U	50 U	-	2.2 U	-	17 U	15 J
1,3,5-Trimethylbenzene	µg/m³				-	72 UJ	-	22 U	23 U	71 U	-	3.2 U	-	24 U	11 UJ
1,3-Butadiene	µg/m³	41	88		-	32 U	-	9.9 U	10 U	31 U	-	1.4 U	-	11 U	4.9 UJ
1,3-Dichlorobenzene[a]	µg/m³	110	35000		-	88 U	-	27 U	28 U	87 U	-	3.9 U	-	30 U	14 U
1,4-Dichlorobenzene	µg/m³	110	35000		-	87 U	-	27 U	27 U	85 U	-	3.8 U	-	29 U	13 U
1,4-Dioxane	µg/m³	160	130000		-	65 U	-	20 UJ	20 UJ	64 UJ	-	2.9 UJ	-	22 UJ	10.0 U
2,2,4-Trimethylpentane	µg/m³				-	41 U	-	13 U	13 U	40 U	-	1.8 U	-	14 U	100
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		220000		-	130 U	-	41 UJ	42 UJ	130 UJ	-	5.9 UJ	-	45 UJ	20 U
2-Chlorotoluene	µg/m³				-	74 U	-	23 U	23 U	72 U	-	3.3 U	-	25 U	11 U
2-Hexanone	µg/m³		1300		-	54 U	-	17 UJ	17 UJ	53 UJ	-	2.4 UJ	-	18 UJ	8.2 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³				-	80 U	-	25 U	25 U	78 U	-	3.5 U	-	27 U	12 U
4-Ethyl toluene	µg/m³				-	73 U	-	23 U	23 U	72 U	-	3.2 U	-	25 U	11 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m³		130000		-	42 U	-	13 U	13 U	41 UJ	-	1.8 UJ	-	14 U	16 J
Acetone	µg/m³		1400000		-	750 U	-	230 U	230 U	740 U	-	33 U	-	250 U	120 U
Allyl chloride	µg/m³	200	44		-	34 U	-	11 U	11 U	33 U	-	1.5 U	-	11 U	5.2 U
Benzene	µg/m³	160	1300	40	-	41 U	-	13 U	13 U	40 U	-	1.8 U	-	14 U	19 J
Benzyl chloride	µg/m³	25	44		-	91 U	-	28 U	29 U	90 U	-	4.0 U	-	31 U	14 U
Bromodichloromethane	µg/m³	33			-	67 U	-	21 U	21 U	65 U	-	2.9 U	-	22 U	10 U
Bromoform	µg/m³	1,100			-	110 U	-	35 U	35 U	110 U	-	5.0 U	-	38 U	17 U
Bromomethane (Methyl bromide)	µg/m³		220		-	28 U	-	8.7 U	8.8 U	28 U	-	1.2 U	-	9.4 U	4.3 U
Butane	µg/m³				-	34 U	-	11 U	11 U	44 J	-	1.5 U	-	12 U	2200 J
Carbon disulfide	µg/m³		31000		-	22 U	-	6.8 U	6.8 U	21 U	-	0.97 U	-	7.3 U	79
Carbon tetrachloride	µg/m³	200	4400		-	54 UJ	-	17 U	17 U	53 U	-	2.4 U	-	18 U	8.3 UJ
Chlorobenzene	µg/m³		2200		-	51 U	-	16 U	16 U	50 U	-	2.3 U	-	17 U	7.8 U
Chlorodifluoromethane	µg/m³		2200000		-	30 U	-	9.2 U	9.2 U	65 J	-	3.3 J	-	9.9 U	32
Chloroethane	µg/m³		440000		-	21 U	-	6.5 U	6.5 U	21 U	-	0.92 U	-	7.0 U	3.2 U
Chloroform (Trichloromethane)	µg/m³	53	4300	4000	-	**530[a]**	-	46 J	47 J	**150 J[a]**	-	3.4 J	-	**110[a]**	6.4 U
Chloromethane (Methyl chloride)	µg/m³		3900		-	75 U	-	23 U	23 U	73 U	-	3.3 U	-	25 U	11 UJ
cis-1,2-Dichloroethene[b]	µg/m³		2600	1500	-	**3100[bc]**	-	91	94	**2100[c]**	-	2.4 U	-	780	27
cis-1,3-Dichloropropene[c]	µg/m³	310	880		-	76 U	-	24 U	24 U	75 U	-	3.4 U	-	25 U	12 U
Cyclohexane	µg/m³		260000		-	31 U	-	9.7 U	9.7 U	31 U	-	1.4 U	-	10 U	67
Cymene (p-Isopropyltoluene)	µg/m³				-	71 U	-	22 U	22 U	70 U	-	3.1 U	-	24 U	11 U
Dibromochloromethane	µg/m³	45			-	81 U	-	25 U	25 U	79 U	-	3.6 U	-	27 U	12 U
Dichlorodifluoromethane (CFC-12)	µg/m³		4400		-	76 U	-	24 U	24 U	75 U	-	3.4 U	-	26 U	18 J
Ethylbenzene	µg/m³	490	44000	13000	-	67 U	-	21 U	21 U	66 U	-	3.0 U	-	22 U	10 U
Hexachlorobutadiene	µg/m³	56			-	190 U	-	58 U	59 U	180 UJ	-	8.3 UJ	-	63 U	29 U
Hexane	µg/m³		31000		-	26 U	-	7.9 U	8.0 U	25 U	-	1.1 U	-	8.6 U	100
Isopropyl alcohol	µg/m³				-	24 U	-	7.6 UJ	7.6 UJ	24 UJ	-	1.9 J	-	8.2 UJ	13 J
Isopropyl benzene	µg/m³		18000		-	67 U	-	21 U	21 U	66 U	-	2.9 U	-	22 U	10 U
m&p-Xylenes	µg/m³		4400	8000	-	120 U	-	37 U	37 U	120 U	-	5.2 U	-	40 U	18 U
Methyl methacrylate	µg/m³		31000		-	73 U	-	23 U	23 U	72 U	-	3.2 U	-	25 U	11 U
Methyl tert butyl ether (MTBE)	µg/m³	4,700	130000		-	140 U	-	43 U	43 U	140 U	-	6.1 U	-	47 U	21 U
Methylene chloride	µg/m³	120,000	26000		-	90 U	-	17 J	18 J	66 J	-	2.8 J	-	19 J	15 U
Naphthalene	µg/m³	36	130	15.2	-	110 U	-	33 U	33 U	100 UJ	-	4.7 UJ	-	36 U	16 U
N-Butylbenzene	µg/m³				-	57 U	-	18 U	18 U	56 U	-	2.5 U	-	19 U	8.7 U
N-Decane	µg/m³				-	-	-	-	-	72 U	-	-	-	25 U	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5172/1/B Overstreet*	*Parcel 5172/1/B Overstreet*	*Parcel 5172/1/A S&J*	*Parcel 5172/1/A S&J*	*Parcel 5172/1/A S&J*	*Parcel 5172/1/B S&J*	*Parcel 5172/1/C S&J*	*Parcel 5172/1/C S&J*	*Parcel 5172/1/D S&J*	*Parcel 5172/1/D S&J*	*Parcel 5172, Bldg 2, Probe A*
Sample ID:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*SS-38443-031412-JC-211*	*SS-38443-031512-JC-218*	*SS-38443-030712-JC-097*	*SS-38443-030712-JC-112*	*SS-38443-030712-JC-118*	*SS-38443-030712-JC-113*	*SS-38443-030712-JC-099*	*SS-38443-030712-JC-115*	*SS-38443-030712-JC-102*	*SS-38443-030712-JC-117*	*SS-38443-032812-JC-225*
Sample Date:					*3/14/2012*	*3/15/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/28/2012*
Sample Type:		ELCR	HI	Non-residential					*Duplicate*						
	Units	*a*	*b*	*c*											
N-Dodecane	µg/m^3				-	-	-	-	-	120 UJ	-	-	-	41 UJ	-
N-Heptane	µg/m^3				-	44 U	-	14 U	14 U	43 U	-	1.9 U	-	15 U	9.8 J
Nonane	µg/m^3		8800		-	-	-	-	-	50 U	-	-	-	17 U	-
N-Propylbenzene	µg/m^3				-	62 U	-	19 U	19 U	61 U	-	2.8 U	-	21 U	9.5 U
N-Undecane	µg/m^3				-	-	-	-	-	88 UJ	-	-	-	30 UJ	-
Octane	µg/m^3				-	-	-	-	-	37 U	-	-	-	13 U	-
o-Xylene	µg/m^3		4400	8000	-	60 U	-	19 U	19 U	59 U	-	2.6 U	-	20 U	9.7 J
Pentane	µg/m^3		44000		-	-	-	-	-	39 U	-	-	-	13 U	-
Styrene	µg/m^3		44000		-	56 U	-	17 U	17 U	55 U	-	2.5 U	-	19 U	8.5 U
tert-Butyl alcohol	µg/m^3				-	26 U	-	8.1 U	8.1 U	26 U	-	1.2 U	-	8.7 U	5.8 J
tert-Butylbenzene	µg/m^3				-	82 U	-	25 U	26 U	80 U	-	3.6 U	-	27 U	13 U
Tetrachloroethene	µg/m^3	4700	1800	1700	-	67 J	-	47 J	47 J	70 J	-	150	-	22 J	9.4 U
Tetrahydrofuran	µg/m^3				-	42 U	-	13 U	13 U	41 U	-	1.9 U	-	14 U	6.4 U
Toluene	µg/m^3		220000		-	46 U	-	14 U	14 U	45 U	-	2.0 U	-	15 U	12 J
trans-1,2-Dichloroethene	µg/m^3		2600		-	330	-	26 J	26 J	800	-	2.0 U	-	450	21 J
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		-	49 U	-	15 U	15 U	48 U	-	2.2 U	-	17 U	7.5 U
Trichloroethene	µg/m^3	300	88	100	-	29000[abc]	-	7600[abc]	7700[abc]	30000[abc]	-	950[abc]	-	5000[abc]	35 J
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		-	31 U	-	9.5 U	9.5 U	30 U	-	1.6 J	-	10 U	4.7 U
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		-	54 U	-	17 U	17 U	53 U	-	2.4 U	-	18 U	8.2 U
Vinyl bromide (Bromoethene)	µg/m^3	38	130		-	35 U	-	11 U	11 U	34 U	-	1.5 U	-	12 U	5.3 U
Vinyl chloride	µg/m^3	280	4400	40	-	41 U	-	13 U	13 U	40 U	-	1.8 U	-	14 U	2100 J[ac]
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%				-	-	-	0.18 U	0.19 U	0.19 U	-	0.20 U	-	0.20 U	-
Ethene	%				-	-	-	0.18 U	0.19 U	0.19 U	-	0.20 U	-	0.20 U	-
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	-	-	0.16 U	0.17 U	0.17 U	-	0.18 U	-	0.18 U	-
Methane, field, unfiltered	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0
Radon															
Radon-222	pCi/L				514 +/-26	-	206 +/-10	-	-	-	355 +/-18	-	449 +/-22	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 5172, Bldg 2, Probe B*	*Parcel 5172, Bldg 2, Probe B*	*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5173, Bldg 1, Probe A*	*Parcel 5173, Bldg 1, Probe B*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe A*
Sample ID:					*SS-38443-032712-JC-227*	*SS-38443-032712-JC-227*	*SS-38443-032712-JC-229*	*SS-38443-032712-JC-229*	*SS-38443-031412-JC-213*	*SS-38443-031512-JC-221*	*SS-38443-031312-JC-176*	*SS-38443-031312-JC-178*	*SS-38443-031312-JC-180*	*SS-38443-031312-JC-181*	*SS-38443-030512-JC-079*
Sample Date:					*3/26/2012*	*3/27/2012*	*3/2/2012*	*3/27/2012*	*3/14/2012*	*3/15/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/5/2012*
Sample Type:		ELCR	HI	Non-residential											
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m³		1		-	0	-	2[b]	-	45[b]	24[b]	42[b]	28[b]	-	-
Total Risk	µg/m³	1E-5			-	6E-06	-	5E-06	-	1E-04[a]	7E-05[a]	1E-04[a]	3E-04[a]	-	-
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		220000		-	0.30 J	-	1.6	-	5.8 U	5.8 U	7.7 U	86 U	-	-
1,1,2,2-Tetrachloroethane	µg/m³	21			-	0.42 U	-	0.42 U	-	15 U	15 U	20 U	220 U	-	-
1,1,2-Trichloroethane	µg/m³	77	8.8		-	0.29 U	-	0.29 U	-	11 U	10 U	14 U	150 U	-	-
1,1-Dichloroethane	µg/m³	770		630	-	310	-	0.29 J	-	26 J	3.7 U	4.9 U	55 U	-	-
1,1-Dichloroethene	µg/m³		8800		-	0.21 J	-	0.13 U	-	4.5 U	4.5 U	6.0 U	140 J	-	-
1,2,4-Trichlorobenzene	µg/m³		88		-	0.73 U	-	0.73 U	-	26 U	26 U	34 U	380 U	-	-
1,2,4-Trimethylbenzene	µg/m³		310		-	0.31 U	-	0.31 U	-	11 U	11 U	15 U	4400[b]	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	2.0	390		-	0.34 U	-	0.34 U	-	12 U	12 U	16 U	180 U	-	-
1,2-Dichlorobenzene	µg/m³		8800		-	0.42 U	-	0.42 U	-	15 U	15 U	20 U	220 U	-	-
1,2-Dichloroethane	µg/m³	47	310		-	0.19 U	-	0.19 U	-	6.8 U	6.8 U	8.9 U	100 U	-	-
1,2-Dichloroethene (total)	µg/m³				-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	120	180		-	0.24 U	-	0.24 U	-	8.6 U	8.6 U	11 U	130 U	-	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				-	3.3	-	0.22 U	-	8.0 U	8.0 U	11 U	120 U	-	-
1,3,5-Trimethylbenzene	µg/m³				-	0.32 UJ	-	0.32 UJ	-	11 UJ	11 U	15 U	2900	-	-
1,3-Butadiene	µg/m³	41	88		-	0.14 U	-	0.14 U	-	5.1 U	5.0 U	6.7 U	74 U	-	-
1,3-Dichlorobenzene[a]	µg/m³	110	35000		-	0.39 U	-	0.39 U	-	14 U	14 U	18 U	200 U	-	-
1,4-Dichlorobenzene	µg/m³	110	35000		-	0.38 U	-	0.38 U	-	14 U	14 UJ	18 UJ	200 UJ	-	-
1,4-Dioxane	µg/m³	160	130000		-	0.29 U	-	0.29 U	-	10 U	10 U	14 U	150 U	-	-
2,2,4-Trimethylpentane	µg/m³				-	0.86 J	-	0.18 U	-	6.5 U	6.5 U	37 J	700 J	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		220000		-	2.3 J	-	0.71 J	-	21 U	21 U	28 U	310 U	-	-
2-Chlorotoluene	µg/m³				-	0.33 U	-	0.33 U	-	12 U	12 U	15 U	170 U	-	-
2-Hexanone	µg/m³		1300		-	0.24 U	-	0.24 U	-	8.5 U	8.5 U	11 U	120 U	-	-
2-Phenylbutane (sec-Butylbenzene)	µg/m³				-	0.35 U	-	0.35 U	-	13 U	13 U	17 U	980 J	-	-
4-Ethyl toluene	µg/m³				-	0.32 U	-	0.32 U	-	12 U	12 U	15 U	1000	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m³		130000		-	0.18 U	-	0.18 U	-	6.6 U	6.6 U	8.7 U	97 U	-	-
Acetone	µg/m³		1400000		-	9.6 J	-	4.7 J	-	120 U	120 U	160 U	1700 U	-	-
Allyl chloride	µg/m³	200	44		-	0.15 U	-	0.15 U	-	5.4 U	5.3 U	7.1 U	79 U	-	-
Benzene	µg/m³	160	1300	40	-	0.25 J	-	0.18 U	-	6.4 U	6.4 U	8.4 U	1000[ac]	-	-
Benzyl chloride	µg/m³	25	44		-	0.40 U	-	0.40 U	-	14 U	14 U	19 U	210 U	-	-
Bromodichloromethane	µg/m³	33			-	0.73 J	-	0.29 U	-	11 U	10 U	14 U	150 U	-	-
Bromoform	µg/m³	1,100			-	0.50 U	-	0.50 U	-	18 U	18 U	23 U	260 U	-	-
Bromomethane (Methyl bromide)	µg/m³		220		-	0.12 U	-	0.12 U	-	4.4 U	4.4 U	5.8 U	65 U	-	-
Butane	µg/m³				-	3.0	-	1.1	-	5.4 U	5.4 UJ	7.2 UJ	24000 J	-	-
Carbon disulfide	µg/m³		31000		-	0.33 J	-	0.097 U	-	3.4 U	3.4 U	4.5 U	220 J	-	-
Carbon tetrachloride	µg/m³	200	4400		-	0.24 UJ	-	0.44 J	-	8.5 UJ	8.5 U	11 U	130 U	-	-
Chlorobenzene	µg/m³		2200		-	0.23 U	-	0.23 U	-	8.1 U	8.0 U	11 U	3100[b]	-	-
Chlorodifluoromethane	µg/m³		2200000		-	3.0	-	1.1	-	9.6 J	12 J	9.7 J	470 J	-	-
Chloroethane	µg/m³		440000		-	0.30 J	-	0.092 U	-	3.3 U	3.3 U	4.3 U	230 J	-	-
Chloroform (Trichloromethane)	µg/m³	53	4300	4000	-	5.5	-	0.21 J	-	11 J	6.6 U	57[a]	97 U	-	-
Chloromethane (Methyl chloride)	µg/m³		3900		-	0.33 U	-	0.33 U	-	12 U	12 U	16 U	170 U	-	-
cis-1,2-Dichloroethene[b]	µg/m³		2600	1500	-	3.8	-	0.24 U	-	200	8.5 U	510	41000[bc]	-	-
cis-1,3-Dichloropropene[c]	µg/m³	310	880		-	0.34 U	-	0.34 U	-	12 U	12 U	16 U	180 U	-	-
Cyclohexane	µg/m³		260000		-	0.95 J	-	1.3 J	-	4.9 U	4.9 U	6.5 U	10000	-	-
Cymene (p-Isopropyltoluene)	µg/m³				-	0.31 U	-	0.31 U	-	11 U	11 U	15 U	450 J	-	-
Dibromochloromethane	µg/m³	45			-	0.36 U	-	0.36 U	-	13 U	13 U	17 U	190 U	-	-
Dichlorodifluoromethane (CFC-12)	µg/m³		4400		-	5.4	-	2.5	-	12 U	12 U	16 U	180 U	-	-
Ethylbenzene	µg/m³	490	44000	13000	-	0.30 U	-	0.30 U	-	11 U	11 U	14 U	2300[a]	-	-
Hexachlorobutadiene	µg/m³	56			-	0.83 U	-	0.83 U	-	30 U	30 U	39 U	440 U	-	-
Hexane	µg/m³		31000		-	1.1 J	-	3.3	-	4.0 U	4.0 U	6.6 J	6700	-	-
Isopropyl alcohol	µg/m³				-	6.1	-	5.7	-	5.5 J	9.5 J	11 J	92 J	-	-
Isopropyl benzene	µg/m³		18000		-	0.29 U	-	0.29 U	-	11 U	11 U	14 U	1100	-	-
m&p-Xylenes	µg/m³		4400	8000	-	0.88	-	0.52 U	-	19 U	19 U	24 U	5600[b]	-	-
Methyl methacrylate	µg/m³		31000		-	0.32 U	-	0.32 U	-	12 U	12 U	15 U	170 U	-	-
Methyl tert butyl ether (MTBE)	µg/m³	4,700	130000		-	0.61 U	-	0.61 U	-	22 U	22 U	29 U	320 U	-	-
Methylene chloride	µg/m³	120,000	26000		-	1.6 U	-	1.4 U	-	17 U	15 J	25 J	750 J	-	-
Naphthalene	µg/m³	36	130	15.2	-	0.47 U	-	0.47 U	-	17 U	17 U	22 U	250 U	-	-
N-Butylbenzene	µg/m³				-	0.25 UJ	-	0.25 UJ	-	9.0 U	9.0 U	12 U	590 J	-	-
N-Decane	µg/m³				-	-	-	-	-	-	-	-	7200	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5172, Bldg 2, Probe B*	*Parcel 5172, Bldg 2, Probe B*	*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5173, Bldg 1, Probe A*	*Parcel 5173, Bldg 1, Probe B*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5173, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe A*
Sample ID:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*SS-38443-032712-JC-227*	*SS-38443-032712-JC-227*	*SS-38443-032712-JC-229*	*SS-38443-032712-JC-229*	*SS-38443-031412-JC-213*	*SS-38443-031512-JC-221*	*SS-38443-031312-JC-176*	*SS-38443-031312-JC-178*	*SS-38443-031312-JC-180*	*SS-38443-031312-JC-181*	*SS-38443-030512-JC-079*
Sample Date:					*3/26/2012*	*3/27/2012*	*3/2/2012*	*3/27/2012*	*3/14/2012*	*3/15/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/5/2012*
Sample Type:		ELCR	HI	Non-residential											
	Units	*a*	*b*	*c*											
N-Dodecane	µg/m^3				-	-	-	-	-	-	-	-	470 J	-	-
N-Heptane	µg/m^3				-	0.43 J	-	0.26 J	-	6.9 U	6.9 U	9.1 U	20000	-	-
Nonane	µg/m^3		8800		-	-	-	-	-	-	-	-	**15000[b]**	-	-
N-Propylbenzene	µg/m^3				-	0.28 U	-	0.28 U	-	9.8 U	9.8 U	13 U	960 J	-	-
N-Undecane	µg/m^3				-	-	-	-	-	-	-	-	210 U	-	-
Octane	µg/m^3				-	-	-	-	-	-	-	-	11000	-	-
o-Xylene	µg/m^3		4400	8000	-	0.37 J	-	0.26 U	-	9.5 U	9.4 U	12 U	**5000[b]**	-	-
Pentane	µg/m^3		44000		-	-	-	-	-	-	-	-	9200	-	-
Styrene	µg/m^3		44000		-	0.25 U	-	0.25 U	-	8.8 U	8.8 U	12 U	130 U	-	-
tert-Butyl alcohol	µg/m^3				-	12	-	0.69 J	-	4.1 U	4.1 U	5.4 U	290 J	-	-
tert-Butylbenzene	µg/m^3				-	0.36 U	-	0.36 U	-	13 U	13 U	17 U	190 U	-	-
Tetrachloroethene	µg/m^3	4700	1800	1700	-	2.8	-	2.9	-	37 J	48	17 J	140 U	-	-
Tetrahydrofuran	µg/m^3				-	2.1 J	-	0.34 J	-	6.6 U	6.6 U	8.7 U	97 U	-	-
Toluene	µg/m^3		220000		-	5.4	-	6.7	-	8.5 J	7.2 U	10 J	20000	-	-
trans-1,2-Dichloroethene	µg/m^3		2600		-	0.20 U	-	0.20 U	-	10 J	7.1 U	230	890	-	-
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		-	0.22 U	-	0.22 U	-	7.8 U	7.8 U	10 U	110 U	-	-
Trichloroethene	µg/m^3	300	88	100	-	25	-	**140[bc]**	-	**4000[abc]**	**2100[abc]**	**3700[abc]**	**640[abc]**	-	-
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		-	0.50 J	-	1.6	-	4.8 U	4.8 U	6.3 U	71 U	-	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		-	0.51 J	-	3.4	-	8.5 U	8.5 U	11 U	120 U	-	-
Vinyl bromide (Bromoethene)	µg/m^3	38	130		-	0.15 U	-	0.15 U	-	5.5 U	5.5 U	7.2 U	80 U	-	-
Vinyl chloride	µg/m^3	280	4400	40	-	0.18 U	-	0.18 U	-	6.5 U	6.5 U	8.5 U	**4400[ac]**	-	-
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%				-	-	-	-	-	-	-	-	-	0.21 U	-
Ethene	%				-	-	-	-	-	-	-	-	-	0.21 U	-
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	**0.97[abc]**	-
Methane, field, unfiltered	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0	0.0	0	0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	**0.9 Dup 0.8[abc]**	**0.8 Dup 0.9[abc]**	-
Radon															
Radon-222	pCi/L				-	-	-	-	661 +/-33	-	-	-	-	-	367 +/-18

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe D*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe B*	*Parcel 5175, Bldg 1, Probe C*
Sample ID:					*SS-38443-030712-JC-103*	*SS-38443-030612-JC-087*	*SS-38443-030512-JC-081*	*SS-38443-030612-JC-090*	*SS-38443-030612-JC-091*	*SS-38443-030512-JC-084*	*SS-38443-030612-JC-093*	*SS-38443-030612-JC-094*	*SS-38443-030712-JC-106*	*SS-38443-030712-JC-108*	*SS-38443-030712-JC-109*
Sample Date:					*3/7/2012*	*3/6/2012*	*3/5/2012*	*3/6/2012*	*3/6/2012*	*3/5/2012*	*3/6/2012*	*3/6/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*
Sample Type:		ELCR	HI	Non-residential								*Duplicate*			
	Units	*a*	*b*	*c*											
Cumulative Risk															
Total HI	µg/m³		1		0	2[b]	-	10[b]	0	-	1	-	1	1	0
Total Risk	µg/m³	1E-5			1E-07	6E-06	-	3E-05[a]	8E-07	-	7E-06	-	5E-06	4E-06	4E-08
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		220000		1.6	31	-	3.1 J	19	-	4.8	3.8	0.91 J	1.0 J	0.16 U
1,1,2,2-Tetrachloroethane	µg/m³	21			0.42 U	0.84 U	-	4.2 U	0.42 U	-	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m³	77	8.8		0.29 U	0.59 U	-	2.9 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m³	770		630	0.11 U	0.21 U	-	1.1 U	0.11 U	-	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m³		8800		0.13 U	0.25 U	-	1.3 U	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m³		88		0.73 UJ	1.5 U	-	7.3 U	0.73 U	-	0.73 U	0.73 U	0.73 UJ	0.73 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m³		310		0.31 U	0.62 U	-	3.1 U	0.31 U	-	0.31 U	0.31 U	0.64 J	0.31 U	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	2.0	390		0.34 U	0.68 U	-	3.4 U	0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m³		8800		0.42 U	0.84 U	-	4.2 U	0.42 U	-	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2-Dichloroethane	µg/m³	47	310		0.19 U	0.38 U	-	1.9 U	0.19 U	-	0.19 UJ	24 J	0.19 U	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m³				-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	120	180		0.24 U	0.48 U	-	2.4 U	0.24 U	-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³				2.2	3.8	-	2.2 U	9.0	-	1.5	1.3 J	0.25 J	0.27 J	0.22 U
1,3,5-Trimethylbenzene	µg/m³				0.32 U	0.64 U	-	3.2 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3-Butadiene	µg/m³	41	88		0.14 U	0.28 U	-	1.4 U	0.14 U	-	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m³	110	35000		0.39 U	0.78 U	-	3.9 U	0.39 U	-	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m³	110	35000		0.38 U	0.77 U	-	3.8 U	0.38 U	-	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m³	160	130000		0.29 UJ	0.58 U	-	2.9 U	0.29 U	-	0.29 U	0.29 U	0.29 UJ	0.29 UJ	0.29 UJ
2,2,4-Trimethylpentane	µg/m³				0.18 U	0.36 U	-	1.8 U	0.18 U	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		220000		0.59 UJ	1.2 U	-	5.9 U	0.59 U	-	0.88 J	0.59 U	0.59 UJ	0.59 UJ	0.59 UJ
2-Chlorotoluene	µg/m³				0.33 U	0.65 U	-	3.3 U	0.33 U	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m³		1300		0.24 UJ	0.48 U	-	2.4 U	0.24 U	-	0.24 U	0.24 U	0.24 UJ	0.24 UJ	0.24 UJ
2-Phenylbutane (sec-Butylbenzene)	µg/m³				0.35 U	0.70 U	-	3.5 U	0.35 U	-	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m³				0.32 U	0.65 U	-	3.2 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m³		130000		0.18 UJ	0.37 U	-	1.8 U	0.18 U	-	0.18 U	0.18 U	0.18 UJ	0.18 UJ	0.18 UJ
Acetone	µg/m³		1400000		3.3 U	6.7 U	-	33 U	3.3 U	-	6.8 J	5.9 J	3.3 U	3.3 U	5.2 J
Allyl chloride	µg/m³	200	44		0.15 U	0.30 U	-	1.5 U	0.15 U	-	0.15 U	0.21 J	0.15 U	0.15 U	0.15 U
Benzene	µg/m³	160	1300	40	0.18 U	0.36 U	-	1.8 U	0.18 U	-	0.18 U	0.18 U	0.38 J	0.18 U	0.18 U
Benzyl chloride	µg/m³	25	44		0.40 U	0.81 U	-	4.0 U	0.40 U	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m³	33			0.29 U	0.59 U	-	2.9 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Bromoform	µg/m³	1,100			0.50 U	0.99 U	-	5.0 U	0.50 U	-	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m³		220		0.12 U	0.25 U	-	1.2 U	0.12 U	-	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Butane	µg/m³				1.1	1.3 J	-	2.0 J	0.28 J	-	0.19 J	0.39 J	2.4	0.65 J	0.31 J
Carbon disulfide	µg/m³		31000		0.097 U	0.19 U	-	0.97 U	0.097 U	-	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U
Carbon tetrachloride	µg/m³	200	4400		0.24 U	0.48 U	-	2.4 U	0.24 U	-	0.41 J	0.35 J	0.24 U	0.28 J	0.44 J
Chlorobenzene	µg/m³		2200		0.23 U	0.45 U	-	2.3 U	0.23 U	-	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m³		2200000		1.7	1.9	-	3.1 J	1.8	-	3.5	3.8	2.9	1.4	1.3
Chloroethane	µg/m³		440000		0.092 U	0.18 U	-	0.92 U	0.092 U	-	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m³	53	4300	4000	0.19 U	0.66 J	-	13	0.30 J	-	0.19 U	0.20 J	0.19 U	0.19 U	0.19 U
Chloromethane (Methyl chloride)	µg/m³		3900		0.33 U	0.66 U	-	3.3 U	0.33 U	-	0.33 U	0.53 J	0.33 U	0.33 U	0.33 U
cis-1,2-Dichloroethene[b]	µg/m³		2600	1500	0.24 U	0.48 U	-	52	0.24 U	-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene[c]	µg/m³	310	880		0.34 U	0.67 U	-	3.4 U	0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m³		260000		0.14 U	0.28 U	-	1.4 U	0.19 J	-	0.14 U	0.77 J	1.2 J	0.14 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m³				0.31 U	0.63 U	-	3.1 U	0.31 U	-	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Dibromochloromethane	µg/m³	45			0.36 U	0.72 U	-	3.6 U	0.36 U	-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m³		4400		11	77	-	8.5 J	6.3	-	3.7	3.5	2.8	2.9	2.8
Ethylbenzene	µg/m³	490	44000	13000	0.30 U	1.3 J	-	3.0 U	0.30 U	-	0.30 U	0.30 U	0.78 J	0.30 U	0.30 U
Hexachlorobutadiene	µg/m³	56			0.83 UJ	1.7 U	-	8.3 U	0.83 U	-	0.83 U	0.83 U	0.83 UJ	0.83 UJ	0.83 UJ
Hexane	µg/m³		31000		0.34 J	0.46 J	-	1.3 J	7.1	-	0.53 J	3.0 J	0.93 J	0.11 J	0.11 U
Isopropyl alcohol	µg/m³				0.68 J	1.1 J	-	1.1 U	1.5 J	-	0.88 J	24 J	1.3 J	2.2 J	0.79 J
Isopropyl benzene	µg/m³		18000		0.29 U	0.59 U	-	2.9 U	0.29 U	-	0.29 U	0.29 U	0.48 J	0.29 U	0.29 U
m&p-Xylenes	µg/m³		4400	8000	0.52 U	3.9	-	5.2 U	0.52 U	-	0.52 U	0.52 U	2.0	0.52 U	0.52 U
Methyl methacrylate	µg/m³		31000		0.32 U	0.65 U	-	3.2 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m³	4,700	130000		0.61 U	1.2 U	-	6.1 U	0.61 U	-	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m³	120,000	26000		1.4 J	1.2 U	-	4.2 U	0.63 U	-	0.39 U	0.69 U	1.8	0.64 J	0.40 J
Naphthalene	µg/m³	36	130	15.2	0.47 UJ	0.94 U	-	4.7 U	0.47 U	-	0.47 U	0.47 U	0.61 J	0.47 UJ	0.47 UJ
N-Butylbenzene	µg/m³				0.25 U	0.51 U	-	2.5 U	0.25 U	-	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
N-Decane	µg/m³				-	0.65 U	-	8.6 J	-	-	-	-	-	-	-

TABLE 4.5

SUMMARY OF ROUND 1 FOLLOW-UP SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe D*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe B*	*Parcel 5175, Bldg 1, Probe C*
Sample ID:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor	*SS-38443-030712-JC-103*	*SS-38443-030612-JC-087*	*SS-38443-030512-JC-081*	*SS-38443-030612-JC-090*	*SS-38443-030612-JC-091*	*SS-38443-030512-JC-084*	*SS-38443-030612-JC-093*	*SS-38443-030612-JC-094*	*SS-38443-030712-JC-106*	*SS-38443-030712-JC-108*	*SS-38443-030712-JC-109*
Sample Date:					*3/7/2012*	*3/6/2012*	*3/5/2012*	*3/6/2012*	*3/6/2012*	*3/5/2012*	*3/6/2012*	*3/6/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*
Sample Type:		ELCR	HI	Non-residential								*Duplicate*			
	Units	*a*	*b*	*c*											
N-Dodecane	µg/m^3				-	1.1 U	-	5.4 U	-	-	-	-	-	-	-
N-Heptane	µg/m^3				0.27 J	0.39 U	-	1.9 U	0.19 U	-	0.19 U	0.59 J	2.1	0.19 U	0.19 U
Nonane	µg/m^3		8800		-	0.45 U	-	7.5 J	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3				0.28 U	0.55 U	-	2.8 U	0.28 U	-	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
N-Undecane	µg/m^3				-	0.79 U	-	4.0 U	-	-	-	-	-	-	-
Octane	µg/m^3				-	0.34 U	-	2.5 J	-	-	-	-	-	-	-
o-Xylene	µg/m^3		4400	8000	0.26 U	1.8	-	2.6 U	0.26 U	-	0.26 U	0.26 U	1.1	0.26 U	0.26 U
Pentane	µg/m^3		44000		-	0.52 J	-	1.8 U	-	-	-	-	-	-	-
Styrene	µg/m^3		44000		0.25 U	0.49 U	-	2.5 U	0.25 U	-	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
tert-Butyl alcohol	µg/m^3				0.15 J	0.27 J	-	1.2 U	0.13 J	-	0.24 J	0.12 U	0.57 J	0.18 J	0.15 J
tert-Butylbenzene	µg/m^3				0.36 U	0.72 U	-	3.6 U	0.36 U	-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	4700	1800	1700	6.6	31	-	31	19	-	2.2 J	0.87 J	7.0	3.9	0.89 J
Tetrahydrofuran	µg/m^3				0.19 U	0.37 U	-	1.9 U	0.19 U	-	0.19 UJ	1.9 J	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		220000		2.9	1.1 J	-	2.8 J	2.7	-	1.0	1.1	3.5	0.26 J	0.32 J
trans-1,2-Dichloroethene	µg/m^3		2600		0.20 U	0.40 U	-	8.8	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		0.22 U	0.44 U	-	2.2 U	0.22 U	-	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	300	88	100	3.4	**160[bc]**	-	**880[abc]**	21	-	66 J	29 J	**130[bc]**	**130[bc]**	0.40 J
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		1.7	5.4	-	1.9 J	1.3	-	2.8	2.1	10	8.3	1.4
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		0.42 J	0.48 U	-	2.4 U	0.32 J	-	0.44 J	0.43 J	0.54 J	0.53 J	0.56 J
Vinyl bromide (Bromoethene)	µg/m^3	38	130		0.15 U	0.31 U	-	1.5 U	0.15 U	-	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	280	4400	40	0.18 U	0.36 U	-	1.8 U	0.18 U	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%				0.21 U	0.21 U	-	0.19 U	-	-	-	-	-	-	-
Ethene	%				0.21 U	0.21 U	-	0.19 U	-	-	-	-	-	-	-
Helium	%				-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.19 U	0.19 U	-	0.17 U	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon															
Radon-222	pCi/L				-	-	635 +/-32	-	-	264 +/-13	-	-	-	-	-

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m^3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

SVSL - Soil Vapor Screening Level

ODH - Ohio Department of Health

pCi/L - picoCuries per liter

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

- - Not applicable.

NM - Not measured

The industrial SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air.

The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1, Outdoor Air*	*Parcel 3207, Bldg 2, Outdoor Air*	*Parcel 3207, Bldg 2, Outdoor Air*	*Parcel 5054, Bldg 1, Outdoor Air*	*Parcel 5054, Bldg 2, Outdoor Air*	*Parcel 5054, Bldg 4, Outdoor Air*	*Parcel 5054, Bldg 5, Outdoor Air*	*Parcel 5171, Bldg 1*	*Parcel 5171, Bldg 2, Outdoor Air*
Sample ID:							*OA-38443-031012-JC-129*	*OA-38443-030912-JC-119*	*OA-38443-031012-JC-130*	*OA-38443-031312-JC-154*	*OA-38443-031312-JC-157*	*OA-38443-031312-JC-165*	*OA-38443-031312-JC-170*	*OA-38443-031412-JC-182*	*OA-38443-031412-JC-192*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/14/2012*	*3/14/2012*
		ELCR	HI	ELCR	HI	Non-residential									
	Units	*a*	*b*	*c*	*d*	*e*									
Cumulative Risk															
Total HI	µg/m³		1		1		-	-	-	-	-	-	-	-	-
Total Risk	µg/m³	1E-5		1E-5		1E-5	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m³		22000		220000		0.16 U	-	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			3.8*	-	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m³	77		770		63	0.11 U	-	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m³		880		8800		0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m³		8.8		88		0.73 UJ	-	0.73 UJ	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U
1,2,4-Trimethylbenzene	µg/m³		31		310		0.31 U	-	0.31 U	0.31 U	0.31 U	0.52 J	0.31 U	0.75 J	0.51 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m³		880		8800		0.42 U	-	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.67 J
1,2-Dichloroethane	µg/m³	4.7	31	47	310		0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		0.24 U	-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	-	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m³						0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3-Butadiene	µg/m³	4.1	8.8	41	88		0.14 U	-	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.32 J	0.14 U
1,3-Dichlorobenzene	µg/m³	11	3500	110	35000		0.39 U	-	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		0.38 U	-	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 UJ	0.96 J
1,4-Dioxane	µg/m³	16	13000	160	130000		0.29 UJ	-	0.29 UJ	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m³						0.18 U	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.84 J	0.56 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		1.7 J	-	1.2 J	0.88 J	1.9 J	1.4 J	0.82 J	3.2	1.6 J
2-Chlorotoluene	µg/m³						0.33 U	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m³		130		1300		0.24 UJ	-	0.24 UJ	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	-	0.35 U	0.35 U	0.35 U	0.42 J	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m³						0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		0.18 UJ	-	0.18 UJ	0.18 U	0.22 J	0.18 U	0.18 U	0.18 U	0.18 U
Acetone	µg/m³		140000		1400000		4.7 J	-	3.3 U	5.0 J	13	6.7 J	4.5 J	17	8.9 J
Allyl chloride	µg/m³	20	4.4	200	44		0.15 U	-	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Benzene	µg/m³	16	130	160	1300	4	0.49 J	-	0.44 J	0.31 J	0.33 J	0.35 J	0.32 J	1.3	1.0
Benzyl chloride	µg/m³	2.5	4.4	25	44		0.40 U	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m³	3.3		33			0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Bromoform	µg/m³	110		1,100			0.50 U	-	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m³		22		220		0.12 U	-	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Butane	µg/m³						2.7	-	3.6	3.3	1.9	6.8	3.9	13 J	11 J
Carbon disulfide	µg/m³		3100		31000		0.097 U	-	0.097 U	0.097 U	0.097 U	0.19 J	0.097 U	0.097 U	0.097 U
Carbon tetrachloride	µg/m³	20	440	200	4400		0.48 J	-	0.57 J	0.45 J	0.47 J	0.47 J	0.51 J	0.58 J	0.46 J
Chlorobenzene	µg/m³		220		2200		0.23 U	-	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	2.5
Chlorodifluoromethane	µg/m³		220000		2200000		1.3	-	3.4	2.4	1.8	4.7	1.8	2.6 J	2.9 J
Chloroethane	µg/m³		44000		440000		0.092 U	-	0.092 U	0.092 U	0.092 U	0.20 J	0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.81 J	0.82 J
Chloromethane (Methyl chloride)	µg/m³		390		3900		1.1	-	1.1	1.1	1.1	1.6	1.2	2.3	1.5
cis-1,2-Dichloroethene	µg/m³		260		2600	150	0.24 U	-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene	µg/m³	31	88	310	880		0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m³		26000		260000		0.14 U	-	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m³						0.31 U	-	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U
Dibromochloromethane	µg/m³	4.5		45			0.36 U	-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		2.0	-	2.2	1.9	2.1	2.0	2.4	3.0	2.5
Ethylbenzene	µg/m³	49	4400	490	44000	1300	0.30 U	-	0.30 U	0.30 U	0.30 U	0.31 J	0.30 U	0.70 J	0.61 J
Hexachlorobutadiene	µg/m³	5.6		56			0.83 UJ	-	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U
Hexane	µg/m³		3100		31000		0.37 J	-	0.43 J	0.57 J	0.36 J	0.78 J	0.62 J	1.8	1.1 J
Isopropyl alcohol	µg/m³						0.49 J	-	0.50 J	0.70 J	1.1 J	0.82 J	0.62 J	5.2	2.9 J
Isopropyl benzene	µg/m³		1800		18000		0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m³		440		4400	800	0.52 U	-	0.52 U	0.52 J	0.67 J	1.0	0.59 J	2.2	2.1
Methyl methacrylate	µg/m³		3100		31000		0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		0.61 U	-	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m³	12,000	2600	120,000	26000		0.63 J	-	2.1	0.90 J	0.69 J	2.2	0.67 J	1.5 J	1.3 J
Naphthalene	µg/m³	3.6	13	36	130	15.2	0.47 UJ	-	0.47 UJ	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U	0.47 U
N-Butylbenzene	µg/m³						0.25 U	-	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
N-Decane	µg/m³						-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m³						-	-	-	-	-	-	-	-	-
N-Heptane	µg/m³						0.19 U	-	0.19 U	0.37 J	0.26 J	0.23 J	0.30 J	1.9 J	1.0 J
Nonane	µg/m³		880		8800		-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m³						0.28 U	-	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
N-Undecane	µg/m³						-	-	-	-	-	-	-	-	-
Octane	µg/m³						-	-	-	-	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1, Outdoor Air*	*Parcel 3207, Bldg 2, Outdoor Air*	*Parcel 3207, Bldg 2, Outdoor Air*	*Parcel 5054, Bldg 1, Outdoor Air*	*Parcel 5054, Bldg 2, Outdoor Air*	*Parcel 5054, Bldg 4, Outdoor Air*	*Parcel 5054, Bldg 5, Outdoor Air*	*Parcel 5171, Bldg 1*	*Parcel 5171, Bldg 2, Outdoor Air*
Sample ID:							*OA-38443-031012-JC-129*	*OA-38443-030912-JC-119*	*OA-38443-031012-JC-130*	*OA-38443-031312-JC-154*	*OA-38443-031312-JC-157*	*OA-38443-031312-JC-165*	*OA-38443-031312-JC-170*	*OA-38443-031412-JC-182*	*OA-38443-031412-JC-192*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/14/2012*	*3/14/2012*
		ELCR	HI	ELCR	HI	Non-residential									
	Units	*a*	*b*	*c*	*d*	*e*									
o-Xylene	µg/m^3		440		4400	800	0.26 U	-	0.26 U	0.26 U	0.26 U	0.35 J	0.26 U	0.81 J	0.69 J
Pentane	µg/m^3		4400		44000		-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		44000		0.25 U	-	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
tert-Butyl alcohol	µg/m^3						0.12 J	-	0.12 U	0.12 U	0.32 J	0.78 J	0.13 J	0.34 J	0.31 J
tert-Butylbenzene	µg/m^3						0.36 U	-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	0.63 J	-	0.41 J	0.27 U	0.27 U	0.27 U	0.27 U	1.2 J	1.6
Tetrahydrofuran	µg/m^3						0.19 U	-	0.19 U	0.19 U	0.69 J	0.19 U	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		22000		220000		0.81	-	0.62 J	1.7	2.1	1.9	0.84	4.9	6.4
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		0.22 U	-	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	0.92 J	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.28 J	2.7
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		1.1	-	1.4	1.2	1.3	1.3	1.4	1.9	1.6
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.48 J	-	0.52 J	0.44 J	0.51 J	0.47 J	0.58 J	0.63 J	0.51 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	-	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%						-	-	-	-	-	-	-	-	-
Ethene	%						-	-	-	-	-	-	-	-	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0
Radon															
Radon-222	pCi/L						-	0.00 +/ -0.06	-	-	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 2, Outdoor Air*	*Parcel 5172, Bldg 2, Outdoor Air*	*Parcel 5172/1 Overstreet, Outdoor Air*	*Parcel 5172/1/S&J, Outdoor Air*	*Parcel 5172, Bldg 3, Outdoor Air*	*Parcel 5172, SE Corner, Outdoor Air*	*Parcel 5173, Bldg 1, Outdoor Air*	*Parcel 5174, Outdoor Air*	*Parcel 5175, Outdoor Air*
Sample ID:							*OA-38443-032712-JC-222*	*OA-38443-032712-JC-223*	*OA-38443-031512-JC-214*	*OA-38443-030712-JC-110*	*OA-38443-031512-JC-219*	*OA-38443-030712-JC-095*	*OA-38443-031312-JC-174*	*OA-38443-030612-JC-085*	*OA-38443-030712-JC-104*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/27/2012*	*3/27/2012*	*3/15/2012*	*3/7/2012*	*3/15/2012*	*3/7/2012*	*3/13/2012*	*3/6/2012*	*3/7/2012*
		ELCR	HI	ELCR	HI	Non-residential									
	Units	*a*	*b*	*c*	*d*	*e*									
Cumulative Risk															
Total HI	µg/m^3		1		1		-	-	-	-	-	-	-	-	-
Total Risk	µg/m^3	1E-5		1E-5		1E-5	-	-	-	-	-	-	-	-	-
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m^3		22000		220000		0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	-	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	-	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	77		770		63	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	-	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3		880		8800		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		0.73 U	0.73 U	0.73 U	0.73 UJ	0.73 U	-	0.73 U	0.73 U	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3		31		310		0.31 U	0.31 U	0.31 U	0.31 U	0.59 J	-	0.31 U	0.31 U	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.2	39	2	390		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3		880		8800		0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	-	0.42 U	0.42 U	0.42 U
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3						0.32 UJ	0.32 UJ	0.32 UJ	0.32 U	0.32 UJ	-	0.32 U	0.32 U	0.32 U
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	-	0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene	µg/m^3	11	3500	110	35000		0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	-	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	-	0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		0.29 U	0.29 U	0.29 U	0.29 UJ	0.29 U	-	0.29 U	0.29 U	0.29 UJ
2,2,4-Trimethylpentane	µg/m^3						0.18 U	0.18 U	0.30 J	0.18 U	1.2 J	-	0.18 U	0.18 J	0.20 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		0.67 J	1.1 J	1.0 J	0.59 UJ	1.3 J	-	1.1 J	0.59 U	0.86 J
2-Chlorotoluene	µg/m^3						0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	-	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m^3		130		1300		0.24 U	0.24 U	0.24 U	0.24 UJ	0.24 U	-	0.24 U	0.24 U	0.24 UJ
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	-	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3						0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		130000		0.18 U	0.18 U	0.18 U	0.18 UJ	0.18 U	-	0.18 U	0.18 U	0.18 UJ
Acetone	µg/m^3		140000		1400000		3.3 U	3.3 U	6.0 J	3.3 U	9.4 J	-	5.1 J	3.3 U	5.2 J
Allyl chloride	µg/m^3	20	4.4	200	44		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U
Benzene	µg/m^3	16	130	160	1300	4	0.47 J	0.47 J	0.70	0.18 U	1.1	-	0.22 J	0.46 J	0.46 J
Benzyl chloride	µg/m^3	2.5	4.4	25	44		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	-	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	3.3		33			0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U
Bromoform	µg/m^3	110		1,100			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	-	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	-	0.12 U	0.12 U	0.12 U
Butane	µg/m^3						1.7	1.7	2.5	1.8	35	-	1.8	2.1	2.3
Carbon disulfide	µg/m^3		3100		31000		0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	-	0.097 U	0.097 U	0.12 J
Carbon tetrachloride	µg/m^3	20	440	200	4400		0.53 J	0.54 J	0.64 J	0.24 U	0.54 J	-	0.45 J	0.31 J	0.51 J
Chlorobenzene	µg/m^3		220		2200		0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	-	0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3		220000		2200000		0.86	1.1	1.4	1.2	16	-	1.7	3.7	1.2
Chloroethane	µg/m^3		44000		440000		0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	-	0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	400	0.19 U	0.19 U	0.36 J	0.19 U	0.29 J	-	0.19 U	0.19 U	0.19 U
Chloromethane (Methyl chloride)	µg/m^3		390		3900		1.2	1.2	1.5	1.1	1.3	-	1.2	1.5	1.1
cis-1,2-Dichloroethene	µg/m^3		260		2600	150	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene	µg/m^3	31	88	310	880		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m^3		26000		260000		0.14 U	0.14 U	0.22 J	0.14 U	0.49 J	-	0.14 U	0.14 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3						0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	-	0.31 U	0.31 U	0.31 U
Dibromochloromethane	µg/m^3	4.5		45			0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		2.1	2.1	2.3	2.6	2.3	-	2.0	3.6	2.6
Ethylbenzene	µg/m^3	49	4400	490	44000	1300	0.30 U	0.30 U	0.30 U	0.30 U	0.60 J	-	0.30 U	0.30 U	0.30 U
Hexachlorobutadiene	µg/m^3	5.6		56			0.83 U	0.83 U	0.83 U	0.83 UJ	0.83 U	-	0.83 U	0.83 U	0.83 UJ
Hexane	µg/m^3		3100		31000		0.56 J	0.85 J	0.94 J	0.11 U	4.4	-	0.34 J	0.93 J	0.61 J
Isopropyl alcohol	µg/m^3						0.42 J	0.51 J	1.9 J	0.26 J	2.2 J	-	0.36 J	1.0 J	0.72 J
Isopropyl benzene	µg/m^3		1800		18000		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m^3		440		4400	800	0.52 U	0.52 U	0.52 U	0.52 U	2.0	-	0.52 U	0.52 U	0.52 U
Methyl methacrylate	µg/m^3		3100		31000		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	-	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m^3	12,000	2600	120,000	26000		0.69 U	1.1 U	0.83 U	0.50 J	31	-	0.59 J	2.9	0.76 J
Naphthalene	µg/m^3	3.6	13	36	130	15.2	0.47 U	0.47 U	0.47 U	0.47 UJ	0.47 U	-	0.47 U	0.47 U	0.47 UJ
N-Butylbenzene	µg/m^3						0.25 UJ	0.25 UJ	0.25 U	0.25 U	0.25 U	-	0.25 U	0.25 U	0.25 U
N-Decane	µg/m^3						-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3						-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3						0.24 J	0.38 J	0.38 J	0.19 U	0.66 J	-	0.19 U	0.26 J	0.46 J
Nonane	µg/m^3		880		8800		-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3						0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	-	0.28 U	0.28 U	0.28 U
N-Undecane	µg/m^3						-	-	-	-	-	-	-	-	-
Octane	µg/m^3						-	-	-	-	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 2, Outdoor Air*	*Parcel 5172, Bldg 2, Outdoor Air*	*Parcel 5172/1 Overstreet, Outdoor Air*	*Parcel 5172/1/S&J, Outdoor Air*	*Parcel 5172, Bldg 3, Outdoor Air*	*Parcel 5172, SE Corner, Outdoor Air*	*Parcel 5173, Bldg 1, Outdoor Air*	*Parcel 5174, Outdoor Air*	*Parcel 5175, Outdoor Air*
Sample ID:							*OA-38443-032712-JC-222*	*OA-38443-032712-JC-223*	*OA-38443-031512-JC-214*	*OA-38443-030712-JC-110*	*OA-38443-031512-JC-219*	*OA-38443-030712-JC-095*	*OA-38443-031312-JC-174*	*OA-38443-030612-JC-085*	*OA-38443-030712-JC-104*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/27/2012*	*3/27/2012*	*3/15/2012*	*3/7/2012*	*3/15/2012*	*3/7/2012*	*3/13/2012*	*3/6/2012*	*3/7/2012*
		ELCR	HI	ELCR	HI	Non-residential									
	Units	*a*	*b*	*c*	*d*	*e*									
o-Xylene	µg/m^3		440		4400	800	0.26 U	0.26 U	0.26 U	0.26 U	0.61 J	-	0.26 U	0.26 U	0.26 U
Pentane	µg/m^3		4400		44000		-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		44000		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	-	0.25 U	0.25 U	0.25 U
tert-Butyl alcohol	µg/m^3						0.12 U	0.12 U	0.12 U	0.12 U	0.12 J	-	0.14 J	0.12 U	0.20 J
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	0.27 U	0.27 U	0.39 J	0.27 U	0.37 J	-	0.27 U	0.27 U	0.27 U
Tetrahydrofuran	µg/m^3						0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		22000		220000		1.2	1.5	1.8	0.20 U	12	-	0.61 J	0.66 J	1.0
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	0.22 J	0.19 U	0.55 J	0.19 U	0.52 J	-	0.19 U	3.5	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		1.0 J	1.2	1.3	0.93 J	3.0	-	1.1	1.3	1.3
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.55 J	0.52 J	0.62 J	0.24 U	0.53 J	-	0.46 J	0.59 J	0.51 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	-	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%						-	-	-	-	-	-	-	-	-
Ethene	%						-	-	-	-	-	-	-	-	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon															
Radon-222	pCi/L						-	-	-	-	-	0.14 +/-0.04	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1, IA_A*	*Parcel 3207, Bldg 1, Cubicles*	*Parcel 3207, Bldg 1, Cubicles*	*Parcel 3207, Bldg 1, IA_D*	*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_D*	*Parcel 3207, Bldg 2, IA_D*
Sample ID:							*IA-38443-031012-JC-131*	*IA-38443-031012-JC-133*	*IA-38443-031012-JC-134*	*IA-38443-031012-JC-137*	*IA-38443-030912-JC-120*	*IA-38443-031012-JC-140*	*IA-38443-030912-JC-122*	*IA-38443-031012-JC-144*	*IA-38443-031012-JC-145*	*IA-38443-030912-JC-124*	*IA-38443-031012-JC-148*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*
		ELCR	HI	ELCR	HI	Non-residential			*Duplicate*						*Duplicate*		
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m³		1		1		0	0	-	0	-	0	-	0	-	-	0
Total Risk	µg/m³	1E-5		1E-5		1E-5	6E-07	1E-06	-	6E-07	-	3E-06	-	3E-06	-	-	1E-06
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m³		22000		220000		0.16 U	0.16 U	0.16 U	0.16 U	-	0.16 U	-	0.16 U	0.16 U	-	0.16 U
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			0.42 U	0.42 U	0.42 U	0.42 U	-	0.42 U	-	0.42 U	0.42 U	-	0.42 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	-	0.29 U	0.29 U	-	0.29 U
1,1-Dichloroethane	µg/m³	77		770		63	0.11 U	0.11 U	0.11 U	0.11 U	-	0.11 U	-	0.11 U	0.11 U	-	0.11 U
1,1-Dichloroethene	µg/m³		880		8800		0.13 U	0.13 U	0.13 U	0.13 U	-	0.13 U	-	0.13 U	0.13 U	-	0.13 U
1,2,4-Trichlorobenzene	µg/m³		8.8		88		0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	-	0.73 UJ	-	0.73 UJ	0.73 UJ	-	0.73 UJ
1,2,4-Trimethylbenzene	µg/m³		31		310		0.49 J	0.56 J	0.57 J	0.31 U	-	1.9	-	2.1	1.7	-	0.70 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		0.34 U	0.34 U	0.34 U	0.34 U	-	0.34 U	-	0.34 U	0.34 U	-	0.34 U
1,2-Dichlorobenzene	µg/m³		880		8800		0.42 U	0.42 U	0.42 U	0.42 U	-	0.42 U	-	0.42 U	0.42 U	-	0.42 U
1,2-Dichloroethane	µg/m³	4.7	31	47	310		0.19 U	0.19 U	0.24 J	0.19 U	-	0.19 U	-	0.19 U	0.19 U	-	0.19 U
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		0.24 U	0.24 U	0.24 U	0.24 U	-	0.24 U	-	0.24 U	0.24 U	-	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	0.22 U	0.22 U	0.22 U	-	0.22 U	-	0.22 U	0.22 U	-	0.22 U
1,3,5-Trimethylbenzene	µg/m³						0.32 U	0.32 U	0.32 U	0.32 U	-	0.49 J	-	0.54 J	0.94 J	-	0.32 U
1,3-Butadiene	µg/m³	4.1	8.8	41	88		0.14 U	0.14 U	0.14 U	0.14 U	-	0.14 U	-	0.14 U	0.14 U	-	0.14 U
1,3-Dichlorobenzene	µg/m³	11	3500	110	35000		0.39 U	0.39 U	0.39 U	0.39 U	-	0.39 U	-	0.39 U	0.39 U	-	0.39 U
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		0.38 U	0.38 U	0.38 U	0.38 U	-	0.38 U	-	0.38 U	0.38 U	-	0.38 U
1,4-Dioxane	µg/m³	16	13000	160	130000		0.29 UJ	0.29 UJ	0.29 UJ	0.29 U	-	0.29 UJ	-	0.29 UJ	0.29 UJ	-	0.29 UJ
2,2,4-Trimethylpentane	µg/m³						0.18 U	0.18 U	0.18 U	0.18 U	-	0.42 J	-	0.43 J	0.46 J	-	0.27 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		2.3 J	1.3 J	1.8 J	1.7 J	-	3.2	-	4.6	3.3	-	1.9 J
2-Chlorotoluene	µg/m³						0.33 U	0.33 U	0.33 U	0.33 U	-	0.33 U	-	0.33 U	0.33 U	-	0.33 U
2-Hexanone	µg/m³		130		1300		0.24 UJ	0.24 UJ	0.24 UJ	0.24 U	-	0.24 UJ	-	0.24 UJ	0.24 UJ	-	0.24 UJ
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	0.35 U	0.35 U	0.35 U	-	0.35 U	-	0.35 U	0.35 U	-	0.35 U
4-Ethyl toluene	µg/m³						0.32 U	0.38 J	0.40 J	0.32 U	-	0.93 J	-	1.1 J	0.78 J	-	0.47 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		0.72 J	0.57 J	0.66 J	0.18 U	-	15 J	-	18 J	14 J	-	3.2 J
Acetone	µg/m³		140000		1400000		17	11 J	13	7.9 J	-	55	-	100	72	-	39
Allyl chloride	µg/m³	20	4.4	200	44		0.15 U	0.15 U	0.15 U	0.15 U	-	0.15 U	-	0.15 U	0.15 U	-	0.15 U
Benzene	µg/m³	16	130	160	1300	4	0.48 J	0.48 J	0.49 J	0.47 J	-	0.72	-	0.75	0.79	-	0.60 J
Benzyl chloride	µg/m³	2.5	4.4	25	44		0.40 U	0.40 U	0.40 U	0.40 U	-	0.40 U	-	0.40 U	0.40 U	-	0.40 U
Bromodichloromethane	µg/m³	3.3		33			0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	-	0.29 U	0.29 U	-	0.29 U
Bromoform	µg/m³	110		1,100			0.50 U	0.50 U	0.50 U	0.50 U	-	0.50 U	-	0.50 U	0.50 U	-	0.50 U
Bromomethane (Methyl bromide)	µg/m³		22		220		0.12 U	0.12 U	0.12 U	0.12 U	-	0.12 U	-	0.12 U	0.12 U	-	0.12 U
Butane	µg/m³						2.2	2.3	2.0	5.4	-	9.5	-	12	11	-	10.0
Carbon disulfide	µg/m³		3100		31000		0.097 U	0.097 U	0.10 J	0.097 U	-	0.097 U	-	0.13 J	0.13 J	-	0.097 U
Carbon tetrachloride	µg/m³	20	440	200	4400		0.39 J	0.47 J	0.51 J	0.43 J	-	0.48 J	-	0.51 J	0.50 J	-	0.47 J
Chlorobenzene	µg/m³		220		2200		0.23 U	0.23 U	0.23 U	0.23 U	-	0.23 U	-	0.23 U	0.23 U	-	0.23 U
Chlorodifluoromethane	µg/m³		220000		2200000		84	88	84	21	-	3.8	-	3.4	3.7	-	4.5
Chloroethane	µg/m³		44000		440000		0.092 U	0.092 U	0.092 U	0.092 U	-	0.092 U	-	0.092 U	0.092 U	-	0.092 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	0.19 U	0.19 U	0.19 U	0.19 U	-	0.19 U	-	0.19 U	0.19 U	-	0.19 U
Chloromethane (Methyl chloride)	µg/m³		390		3900		0.81 J	1.0 J	0.80 J	1.2	-	1.2	-	0.96 J	1.2	-	1.0
cis-1,2-Dichloroethene	µg/m³		260		2600	150	0.24 U	0.24 U	0.24 U	0.24 U	-	0.24 U	-	0.24 U	0.24 U	-	0.24 U
cis-1,3-Dichloropropene	µg/m³	31	88	310	880		0.34 U	0.34 U	0.34 U	0.34 U	-	0.34 U	-	0.34 U	0.34 U	-	0.34 U
Cyclohexane	µg/m³		26000		260000		0.14 U	0.14 U	0.14 U	0.14 U	-	1.4 J	-	1.7 J	1.6 J	-	1.1 J
Cymene (p-Isopropyltoluene)	µg/m³						0.31 U	0.31 U	0.31 U	0.31 U	-	0.42 J	-	0.54 J	0.37 J	-	0.31 U
Dibromochloromethane	µg/m³	4.5		45			0.36 U	0.36 U	0.36 U	0.36 U	-	0.36 U	-	0.36 U	0.36 U	-	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		2.1	2.1	2.0	2.2	-	2.1	-	2.3	2.1	-	1.9
Ethylbenzene	µg/m³	49	4400	490	44000	1300	0.66 J	0.69 J	0.77 J	0.30 U	-	9.1	-	9.6	7.7	-	2.7
Hexachlorobutadiene	µg/m³	5.6		56			0.83 UJ	0.83 UJ	0.83 UJ	0.83 U	-	0.83 UJ	-	0.83 UJ	0.83 UJ	-	0.83 UJ
Hexane	µg/m³		3100		31000		0.42 J	0.42 J	0.41 J	0.47 J	-	1.1 J	-	1.3 J	1.2 J	-	1.1 J
Isopropyl alcohol	µg/m³						14	13	13	5.5	-	27	-	34	28	-	62
Isopropyl benzene	µg/m³		1800		18000		0.29 U	0.29 U	0.29 U	0.29 U	-	0.39 J	-	0.42 J	0.36 J	-	0.29 U
m&p-Xylenes	µg/m³		440		4400	800	2.1	2.0	2.3	0.52 U	-	36	-	42	32	-	11
Methyl methacrylate	µg/m³		3100		31000		0.32 U	0.32 U	0.32 U	0.32 U	-	0.32 U	-	0.32 J	0.32 U	-	0.32 U
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		0.61 U	0.61 U	0.61 U	0.61 U	-	0.61 U	-	0.61 U	0.61 U	-	0.61 U
Methylene chloride	µg/m³	12,000	2600	120,000	26000		1.1 J	1.1 J	1.1 J	1.2 J	-	1.8	-	0.89 J	1.2 J	-	6.8
Naphthalene	µg/m³	3.6	13	36	130	15.2	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	-	0.47 UJ	-	0.47 UJ	0.47 UJ	-	0.47 UJ
N-Butylbenzene	µg/m³						0.25 U	0.25 U	0.25 U	0.25 U	-	0.25 U	-	0.25 U	0.25 U	-	0.25 U
N-Decane	µg/m³						-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m³						-	-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m³						0.40 J	0.44 J	0.45 J	0.33 J	-	4.6	-	5.5	5.8	-	2.7
Nonane	µg/m³		880		8800		-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m³						0.28 U	0.28 U	0.28 U	0.28 U	-	0.45 J	-	0.51 J	0.39 J	-	0.28 U
N-Undecane	µg/m³						-	-	-	-	-	-	-	-	-	-	-
Octane	µg/m³						-	-	-	-	-	-	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1, IA_A*	*Parcel 3207, Bldg 1, Cubicles*	*Parcel 3207, Bldg 1, Cubicles*	*Parcel 3207, Bldg 1, IA_D*	*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_D*	*Parcel 3207, Bldg 2, IA_D*
Sample ID:							*IA-38443-031012-JC-131*	*IA-38443-031012-JC-133*	*IA-38443-031012-JC-134*	*IA-38443-031012-JC-137*	*IA-38443-030912-JC-120*	*IA-38443-031012-JC-140*	*IA-38443-030912-JC-122*	*IA-38443-031012-JC-144*	*IA-38443-031012-JC-145*	*IA-38443-030912-JC-124*	*IA-38443-031012-JC-148*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*	*3/10/2012*	*3/9/2012*	*3/10/2012*
		ELCR	HI	ELCR	HI	Non-residential			*Duplicate*						*Duplicate*		
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	0.63 J	0.57 J	0.61 J	0.26 U	-	17	-	20	16	-	4.9
Pentane	µg/m^3		4400		44000		-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		44000		0.35 J	0.41 J	0.39 J	0.25 U	-	11	-	9.2	7.2	-	2.3
tert-Butyl alcohol	µg/m^3						0.51 J	0.39 J	0.48 J	0.35 J	-	0.39 J	-	0.56 J	0.44 J	-	0.34 J
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.36 U	0.36 U	-	0.36 U	-	0.36 U	0.36 U	-	0.36 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	0.27 U	0.56 J	0.27 U	0.27 U	-	1.6	-	1.9	2.0	-	0.74 J
Tetrahydrofuran	µg/m^3						0.19 U	0.19 U	0.19 U	0.19 U	-	0.19 U	-	0.60 J	0.19 U	-	0.19 U
Toluene	µg/m^3		22000		220000		3.0	2.6	2.8	1.7	-	25	-	22	19	-	9.0
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U	-	0.20 U	0.20 U	-	0.20 U
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		0.22 U	0.22 U	0.22 U	0.22 U	-	0.22 U	-	0.22 U	0.22 U	-	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	0.19 U	0.19 U	0.19 U	0.27 J	-	0.31 J	-	0.38 J	0.38 J	-	0.79 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		1.1	1.1	1.1 J	1.3	-	1.3	-	1.3	1.3	-	1.3
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.52 J	0.48 J	0.49 J	0.54 J	-	0.48 J	-	0.53 J	0.48 J	-	0.46 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	0.15 U	0.15 U	0.15 U	-	0.15 U	-	0.15 U	0.15 U	-	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	0.19 J	0.18 U	0.18 U	-	0.18 U	-	0.18 U	0.18 U	-	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						-	-	-	-	-	-	-	-	-	-	-
Ethene	%						-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0
Radon																	
Radon-222	pCi/L						-	-	-	-	1.13 +/-0.14	-	1.42 +/-0.12	-	-	6.3 +/-0.3	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 2, IA_F*	*Parcel 3207, Bldg 2, IA_F*	*Parcel 5054, Bldg 1, IA*	*Parcel 5054, Bldg 2, IA_A*	*Parcel 5054, Bldg 2, IA_A*	*Parcel 5054, Bldg 2, IA_B*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5054, Bldg 5, IA*	*Parcel 5171, Bldg 1, IA_A*	*Parcel 5171, Bldg 1, IA_C*
Sample ID:							*IA-38443-030912-JC-126*	*IA-38443-031012-JC-151*	*IA-38443-031312-JC-155*	*IA-38443-031312-JC-158*	*IA-38443-031312-JC-162*	*IA-38443-031312-JC-161*	*IA-38443-031312-JC-166*	*IA-38443-031312-JC-167*	*IA-38443-031312-JC-171*	*IA-38443-031412-JC-198*	*IA-38443-031412-JC-186*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/9/2012*	*3/10/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/14/2012*	*3/14/2012*
		ELCR	HI	ELCR	HI	Non-residential					*Duplicate*						
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m^3		1		1		-	0	0	0	-	0	0	1	64[bd]	-	8[bd]
Total Risk	µg/m^3	1E-5		1E-5		1E-5	-	2E-06	1E-06	1E-06	-	1E-06	7E-06	9E-06	9E-07	-	3E-06
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m^3		22000		220000		-	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	-	6.0 U
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			-	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	-	15 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	11 U
1,1-Dichloroethane	µg/m^3	77		770		63	-	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	-	3.9 U
1,1-Dichloroethene	µg/m^3		880		8800		-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	-	4.6 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		-	0.73 UJ	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	0.73 U	-	27 U
1,2,4-Trimethylbenzene	µg/m^3		31		310		-	1.9	0.31 U	1.5	1.5	1.1	5.0	11	0.97	-	210[b]
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.2	39	2	390		-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	-	12 U
1,2-Dichlorobenzene	µg/m^3		880		8800		-	0.57 J	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	-	15 U
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	-	7.0 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-	8.8 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						-	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	8.2 U
1,3,5-Trimethylbenzene	µg/m^3						-	0.43 J	0.32 U	0.46 J	0.43 J	0.33 J	1.6	3.3	0.32 U	-	34 J
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		-	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	-	5.2 U
1,3-Dichlorobenzene	µg/m^3	11	3500	110	35000		-	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	-	14 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		-	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.84 J	-	14 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		-	0.29 UJ	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	11 U
2,2,4-Trimethylpentane	µg/m^3						-	0.80 J	0.18 U	0.44 J	0.44 J	0.46 J	1.2 J	2.1 J	0.33 J	-	38 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		-	5.0	0.97 J	1.5 J	1.2 J	1.8 J	3.0	3.5	1.6 J	-	56 J
2-Chlorotoluene	µg/m^3						-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	-	12 U
2-Hexanone	µg/m^3		130		1300		-	0.24 UJ	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-	8.7 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						-	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	-	13 U
4-Ethyl toluene	µg/m^3						-	0.86 J	0.32 U	0.82 J	0.60 J	0.55 J	2.6	4.9	0.94 J	-	44 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		130000		-	9.3 J	0.18 U	0.18 U	0.18 U	0.18 U	0.47 J	1.0 J	0.61 J	-	28 J
Acetone	µg/m^3		140000		1400000		-	120	16	10.0 J	9.0 J	14	51	120	20	-	6400
Allyl chloride	µg/m^3	20	4.4	200	44		-	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	-	5.5 U
Benzene	µg/m^3	16	130	160	1300	4	-	1.0	0.36 J	0.99	0.95	1.0	1.7	3.2	0.53 J	-	63[ae]
Benzyl chloride	µg/m^3	2.5	4.4	25	44		-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	-	15 U
Bromodichloromethane	µg/m^3	3.3		33			-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	-	11 U
Bromoform	µg/m^3	110		1,100			-	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	-	18 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		-	0.12 U	0.12 U	0.17 J	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	-	4.5 U
Butane	µg/m^3						-	26	5.2	3.0	2.9	5.0	12	17	27	-	440
Carbon disulfide	µg/m^3		3100		31000		-	0.097 U	0.097 U	0.097 U	0.097 U	0.097 U	0.20 J	0.25 J	0.097 U	-	3.5 U
Carbon tetrachloride	µg/m^3	20	440	200	4400		-	0.49 J	0.43 J	0.45 J	0.41 J	0.43 J	0.49 J	0.44 J	0.55 J	-	8.7 UJ
Chlorobenzene	µg/m^3		220		2200		-	0.29 J	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	-	8.3 U
Chlorodifluoromethane	µg/m^3		220000		2200000		-	3.1	25	1.5	1.4	2.4	3.7	1.3	2.0	-	12 J
Chloroethane	µg/m^3		44000		440000		-	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.14 J	0.092 U	-	3.4 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	400	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.23 J	-	6.8 U
Chloromethane (Methyl chloride)	µg/m^3		390		3900		-	0.65 J	1.1	1.0 J	1.4	1.1	1.6	1.7	1.3	-	12 U
cis-1,2-Dichloroethene	µg/m^3		260		2600	150	-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	-	8.7 U
cis-1,3-Dichloropropene	µg/m^3	31	88	310	880		-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	-	12 U
Cyclohexane	µg/m^3		26000		260000		-	2.2	0.14 U	0.25 J	0.43 J	0.55 J	1.3 J	2.9	0.14 U	-	89
Cymene (p-Isopropyltoluene)	µg/m^3						-	0.70 J	0.44 J	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	-	11 U
Dibromochloromethane	µg/m^3	4.5		45			-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	-	13 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		-	2.1	2.0	2.0	2.1	1.9	2.0	2.0	2.4	-	12 U
Ethylbenzene	µg/m^3	49	4400	490	44000	1300	-	6.0	0.30 U	0.72 J	0.69 J	0.67 J	7.0	14	120[a]	-	150[a]
Hexachlorobutadiene	µg/m^3	5.6		56			-	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	-	30 U
Hexane	µg/m^3		3100		31000		-	2.0	0.46 J	1.4 J	1.4 J	1.6 J	3.0	6.0	0.66 J	-	160
Isopropyl alcohol	µg/m^3						-	22	1.3 J	0.75 J	0.79 J	1.1 J	11	17	15	-	650
Isopropyl benzene	µg/m^3		1800		18000		-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.54 J	1.0 J	0.41 J	-	13 J
m&p-Xylenes	µg/m^3		440		4400	800	-	26	0.73 J	2.8	2.7	2.7	23	46	300	-	600[b]
Methyl methacrylate	µg/m^3		3100		31000		-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	-	12 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		-	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	-	22 U
Methylene chloride	µg/m^3	12,000	2600	120,000	26000		-	0.86 J	0.66 J	0.53 J	0.53 J	0.84 J	5.4	14	0.83 J	-	35 U
Naphthalene	µg/m^3	3.6	13	36	130	15.2	-	0.47 UJ	0.47 U	0.47 U	0.47 U	0.47 U	1.4 J	1.4 J	0.47 U	-	17 U
N-Butylbenzene	µg/m^3						-	0.28 J	0.25 U	0.25 U	0.25 U	0.25 U	0.58 J	0.92 J	0.40 J	-	13 J
N-Decane	µg/m^3						-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m^3						-	-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m^3						-	11	1.2 J	0.51 J	0.51 J	0.84 J	7.1	17	1.2 J	-	1000
Nonane	µg/m^3		880		8800		-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m^3						-	0.42 J	0.28 U	0.28 U	0.28 U	0.28 U	1.2 J	2.7	0.28 U	-	25 J
N-Undecane	µg/m^3						-	-	-	-	-	-	-	-	-	-	-
Octane	µg/m^3						-	-	-	-	-	-	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 2, IA_F*	*Parcel 3207, Bldg 2, IA_F*	*Parcel 5054, Bldg 1, IA*	*Parcel 5054, Bldg 2, IA_A*	*Parcel 5054, Bldg 2, IA_A*	*Parcel 5054, Bldg 2, IA_B*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5054, Bldg 5, IA*	*Parcel 5171, Bldg 1, IA_A*	*Parcel 5171, Bldg 1, IA_C*
Sample ID:							*IA-38443-030912-JC-126*	*IA-38443-031012-JC-151*	*IA-38443-031312-JC-155*	*IA-38443-031312-JC-158*	*IA-38443-031312-JC-162*	*IA-38443-031312-JC-161*	*IA-38443-031312-JC-166*	*IA-38443-031312-JC-167*	*IA-38443-031312-JC-171*	*IA-38443-031412-JC-198*	*IA-38443-031412-JC-186*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/9/2012*	*3/10/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/14/2012*	*3/14/2012*
		ELCR	HI	ELCR	HI	Non-residential					*Duplicate*						
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	-	12	0.26 U	0.94	0.93	0.92	6.0	12	73	-	190
Pentane	µg/m^3		4400		44000		-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		44000		-	4.9	0.25 U	0.25 U	0.25 U	0.25 U	0.48 J	0.42 J	0.33 J	-	9.0 U
tert-Butyl alcohol	µg/m^3						-	0.36 J	0.14 J	0.37 J	0.42 J	0.29 J	0.58 J	0.41 J	0.39 J	-	4.2 U
tert-Butylbenzene	µg/m^3						-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.58 J	0.36 U	0.36 U	-	13 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	-	1.2 J	0.27 U	0.27 U	0.27 U	0.27 U	4.1	0.46 J	0.27 U	-	9.9 U
Tetrahydrofuran	µg/m^3						-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	-	6.8 U
Toluene	µg/m^3		22000		220000		-	22	4.5	4.1	4.1	4.3	21	46	1.6	-	480
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	-	7.3 U
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		-	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	-	8.0 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	-	0.82 J	2.2	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.27 J	-	8.1 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	1.2	1.2	1.2	1.2	1.4	1.4	1.2	2.5	-	4.9 U
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	0.57 J	0.47 J	0.47 J	0.49 J	0.47 J	0.45 J	0.46 J	0.57 J	-	8.7 U
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		-	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	-	5.6 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	-	6.6 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						-	-	-	-	-	-	-	-	-	-	-
Ethene	%						-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0
Radon																	
Radon-222	pCi/L						1.35 +/-0.11	-	-	-	-	-	-	-	-	1.27 +/-0.07	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 1, IA_C*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_Office*	*Parcel 5171, Bldg 2, IA_A*	*Parcel 5171, Bldg 2, IA_A*	*Parcel 5171, Bldg 2, IA_B*	*Parcel 5171, Bldg 2, IA_B*	*Parcel 5172/1/IA_A Overstreet*	*Parcel 5172/1/IA_A Overstreet*	*Parcel 5172/1/IA_B Overstreet*
Sample ID:							*IA-38443-031412-JC-200*	*IA-38443-031412-JC-190*	*IA-38443-031412-JC-202*	*IA-38443-031412-JC-183*	*IA-38443-031412-JC-204*	*IA-38443-032712-JC-193*	*IA-38443-031412-JC-195*	*IA-38443-031412-JC-206*	*IA-38443-031412-JC-208*	*IA-38443-031512-JC-215*	*IA-38443-031412-JC-210*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/27/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/15/2012*	*3/14/2012*
		ELCR	HI	ELCR	HI	Non-residential											
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m³		1		1		-	5[bd]	-	7[bd]	-	12[bd]	46[bd]	-	-	4[bd]	-
Total Risk	µg/m³	1E-5		1E-5		1E-5	-	0E+00	-	0E+00	-	2E-05[ace]	0E+00	-	-	3E-05[ace]	-
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m³		22000		220000		-	6.2 U	-	39 U	-	50 U	140 U	-	-	0.16 U	-
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			-	16 U	-	99 U	-	130 U	360 U	-	-	0.42 U	-
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		-	11 U	-	70 U	-	89 U	250 U	-	-	0.29 U	-
1,1-Dichloroethane	µg/m³	77		770		63	-	4.0 U	-	25 U	-	32 U	89 U	-	-	0.11 U	-
1,1-Dichloroethene	µg/m³		880		8800		-	4.8 U	-	30 U	-	38 U	110 U	-	-	0.13 U	-
1,2,4-Trichlorobenzene	µg/m³		8.8		88		-	28 U	-	170 U	-	220 U	620 U	-	-	0.73 U	-
1,2,4-Trimethylbenzene	µg/m³		31		310		-	130[b]	-	170 J[b]	-	100 J[b]	1400[bd]	-	-	13	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		-	13 U	-	80 U	-	100 U	290 U	-	-	0.34 U	-
1,2-Dichlorobenzene	µg/m³		880		8800		-	16 U	-	99 U	-	130 U	360 U	-	-	0.42 U	-
1,2-Dichloroethane	µg/m³	4.7	31	47	310		-	7.2 U	-	45 U	-	58 U	160 U	-	-	0.19 U	-
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		-	9.1 U	-	57 U	-	73 U	200 U	-	-	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						-	8.5 U	-	53 U	-	68 U	190 U	-	-	0.22 U	-
1,3,5-Trimethylbenzene	µg/m³						-	21 J	-	76 UJ	-	97 UJ	270 UJ	-	-	14 J	-
1,3-Butadiene	µg/m³	4.1	8.8	41	88		-	5.4 U	-	33 U	-	43 U	120 U	-	-	0.14 U	-
1,3-Dichlorobenzene	µg/m³	11	3500	110	35000		-	15 U	-	92 U	-	120 U	330 U	-	-	0.39 U	-
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		-	15 U	-	91 U	-	120 U	330 U	-	-	0.38 U	-
1,4-Dioxane	µg/m³	16	13000	160	130000		-	11 U	-	68 U	-	87 U	250 U	-	-	0.29 U	-
2,2,4-Trimethylpentane	µg/m³						-	31 J	-	59 J	-	55 U	150 U	-	-	96	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		-	60 J	-	140 U	-	3700	1300 J	-	-	7.3	-
2-Chlorotoluene	µg/m³						-	12 U	-	77 U	-	99 U	280 U	-	-	0.33 U	-
2-Hexanone	µg/m³		130		1300		-	9.0 U	-	56 U	-	72 U	200 U	-	-	0.64 J	-
2-Phenylbutane (sec-Butylbenzene)	µg/m³						-	13 U	-	83 U	-	110 U	300 U	-	-	0.89 J	-
4-Ethyl toluene	µg/m³						-	27 J	-	77 U	-	98 U	280 U	-	-	16	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		-	23 J	-	44 U	-	1200	710 J	-	-	5.0	-
Acetone	µg/m³		140000		1400000		-	5900	-	8400	-	5300	13000	-	-	37	-
Allyl chloride	µg/m³	20	4.4	200	44		-	5.7 U	-	36 U	-	46 U	130 U	-	-	0.15 U	-
Benzene	µg/m³	16	130	160	1300	4	-	43[ae]	-	84 J[ae]	-	54 U	150 U	-	-	31[ae]	-
Benzyl chloride	µg/m³	2.5	4.4	25	44		-	15 U	-	95 U	-	120 U	340 U	-	-	0.43 J	-
Bromodichloromethane	µg/m³	3.3		33			-	11 U	-	70 U	-	89 U	250 U	-	-	0.29 U	-
Bromoform	µg/m³	110		1,100			-	19 U	-	120 U	-	150 U	420 U	-	-	0.50 U	-
Bromomethane (Methyl bromide)	µg/m³		22		220		-	4.7 U	-	29 U	-	38 U	110 U	-	-	0.12 U	-
Butane	µg/m³						-	290	-	460	-	450	150 J	-	-	270	-
Carbon disulfide	µg/m³		3100		31000		-	3.7 U	-	23 U	-	29 U	82 U	-	-	0.29 J	-
Carbon tetrachloride	µg/m³	20	440	200	4400		-	9.1 UJ	-	57 UJ	-	72 UJ	200 UJ	-	-	0.53 J	-
Chlorobenzene	µg/m³		220		2200		-	8.5 U	-	53 U	-	68 U	190 U	-	-	0.23 U	-
Chlorodifluoromethane	µg/m³		220000		2200000		-	12 J	-	50 J	-	87 J	110 U	-	-	2.0	-
Chloroethane	µg/m³		44000		440000		-	3.5 U	-	22 U	-	28 U	78 U	-	-	0.092 U	-
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	-	7.0 U	-	44 U	-	56 U	160 U	-	-	1.1	-
Chloromethane (Methyl chloride)	µg/m³		390		3900		-	13 U	-	78 U	-	100 U	280 U	-	-	1.7	-
cis-1,2-Dichloroethene	µg/m³		260		2600	150	-	9.0 U	-	56 U	-	72 U	200 U	-	-	1.4	-
cis-1,3-Dichloropropene	µg/m³	31	88	310	880		-	13 U	-	79 U	-	100 U	290 U	-	-	0.34 U	-
Cyclohexane	µg/m³		26000		260000		-	74	-	200 J	-	48 J	120 U	-	-	12	-
Cymene (p-Isopropyltoluene)	µg/m³						-	12 U	-	74 U	-	95 U	270 U	-	-	1.5	-
Dibromochloromethane	µg/m³	4.5		45			-	14 U	-	85 U	-	110 U	300 U	-	-	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		-	13 U	-	79 U	-	100 U	350 J	-	-	2.1	-
Ethylbenzene	µg/m³	49	4400	490	44000	1300	-	120[a]	-	97 J[a]	-	1200[ac]	410 J[a]	-	-	36	-
Hexachlorobutadiene	µg/m³	5.6		56			-	32 U	-	200 U	-	250 U	710 U	-	-	0.83 U	-
Hexane	µg/m³		3100		31000		-	110	-	240 J	-	69 J	96 U	-	-	61	-
Isopropyl alcohol	µg/m³						-	560	-	900 J	-	79 J	150 J	-	-	15	-
Isopropyl benzene	µg/m³		1800		18000		-	11 U	-	70 U	-	89 U	250 U	-	-	5.7	-
m&p-Xylenes	µg/m³		440		4400	800	-	480[b]	-	390	-	5000[bde]	1800[be]	-	-	150	-
Methyl methacrylate	µg/m³		3100		31000		-	12 U	-	76 U	-	98 U	270 U	-	-	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		-	23 U	-	140 U	-	190 U	520 U	-	-	0.61 U	-
Methylene chloride	µg/m³	12,000	2600	120,000	26000		-	16 U	-	82 U	-	890	1500 U	-	-	8.1	-
Naphthalene	µg/m³	3.6	13	36	130	15.2	-	18 U	-	110 U	-	140 U	400 U	-	-	1.9 J	-
N-Butylbenzene	µg/m³						-	9.6 U	-	60 U	-	77 UJ	210 U	-	-	6.3	-
N-Decane	µg/m³						-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m³						-	-	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m³						-	970	-	2300	-	740	1300 J	-	-	23	-
Nonane	µg/m³		880		8800		-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m³						-	15 J	-	65 U	-	83 U	230 U	-	-	9.4	-
N-Undecane	µg/m³						-	-	-	-	-	-	-	-	-	-	-
Octane	µg/m³						-	-	-	-	-	-	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 1, IA_C*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_Office*	*Parcel 5171, Bldg 2, IA_A*	*Parcel 5171, Bldg 2, IA_A*	*Parcel 5171, Bldg 2, IA_B*	*Parcel 5171, Bldg 2, IA_B*	*Parcel 5172/1/IA_A Overstreet*	*Parcel 5172/1/IA_A Overstreet*	*Parcel 5172/1/IA_B Overstreet*
Sample ID:							*IA-38443-031412-JC-200*	*IA-38443-031412-JC-190*	*IA-38443-031412-JC-202*	*IA-38443-031412-JC-183*	*IA-38443-031412-JC-204*	*IA-38443-032712-JC-193*	*IA-38443-031412-JC-195*	*IA-38443-031412-JC-206*	*IA-38443-031412-JC-208*	*IA-38443-031512-JC-215*	*IA-38443-031412-JC-210*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/27/2012*	*3/14/2012*	*3/14/2012*	*3/14/2012*	*3/15/2012*	*3/14/2012*
		ELCR	HI	ELCR	HI	Non-residential											
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	-	140	-	130 J	-	1700[be]	670 J[b]	-	-	51	-
Pentane	µg/m^3		4400		44000		-	-	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		44000		-	9.4 U	-	58 U	-	240 J	680 J	-	-	2.3	-
tert-Butyl alcohol	µg/m^3						-	4.4 U	-	27 U	-	35 U	98 U	-	-	0.83 J	-
tert-Butylbenzene	µg/m^3						-	14 U	-	86 U	-	110 U	310 U	-	-	0.36 U	-
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	-	10 U	-	64 U	-	82 U	230 U	-	-	1.6	-
Tetrahydrofuran	µg/m^3						-	7.0 U	-	44 U	-	56 U	160 U	-	-	0.66 J	-
Toluene	µg/m^3		22000		220000		-	340	-	430	-	22000	30000[b]	-	-	140	-
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	7.5 U	-	47 U	-	60 U	170 U	-	-	0.26 J	-
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		-	8.3 U	-	52 U	-	66 U	190 U	-	-	0.22 U	-
Trichloroethene	µg/m^3	30	8.8	300	88	10	-	7.3 U	-	46 U	-	69 J[abe]	160 U	-	-	27[abe]	-
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	5.1 U	-	32 U	-	41 U	110 U	-	-	4.9	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	9.0 U	-	56 U	-	72 U	200 U	-	-	0.55 J	-
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		-	5.8 U	-	36 U	-	46 U	130 U	-	-	0.15 U	-
Vinyl chloride	µg/m^3	28	440	280	4400	4	-	6.9 U	-	43 U	-	55 U	150 U	-	-	0.18 U	-
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						-	-	-	-	-	-	-	-	-	-	-
Ethene	%						-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	-	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-	-	0.0 Dup 0.0	-
Radon																	
Radon-222	pCi/L						1.13 +/-0.07	-	2.0 +/-0.1	-	1.00 +/-0.06	-	-	0.67 +/-0.07	2.1 +/-0.1	-	2.0 +/-0.1

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172/1/IA_A S&J*	*Parcel 5172/1/IA_A S&J*	*Parcel 5172/1/IA_B Overstreet*	*Parcel 5172/1/IA_C S&J*	*Parcel 5172/1/IA_C S&J*	*Parcel 5172/1/IA_D S&J*	*Parcel 5172/1/IA_D S&J*	*Parcel 5172/1/IA_D S&J*	*Parcel 5172, Bldg 2, IA_A*	*Parcel 5172, Bldg 2, IA_B*
Sample ID:							*IA-38443-030712-JC-096*	*IA-38443-030712-JC-111*	*IA-38443-031512-JC-217*	*IA-38443-030712-JC-098*	*IA-38443-030712-JC-114*	*IA-38443-030712-JC-100*	*IA-38443-030712-JC-116*	*IA-38443-030712-JC-101*	*IA-38443-032712-JC-224*	*IA-38443-032712-JC-226*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/7/2012*	*3/7/2012*	*3/15/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/27/2012*	*3/27/2012*
		ELCR	HI	ELCR	HI	Non-residential										
	Units	*a*	*b*	*c*	*d*	*e*								*Duplicate*		
Cumulative Risk																
Total HI	µg/m³		1		1		-	2[bd]	6[bd]	-	1	-	2[bd]	-	0	0
Total Risk	µg/m³	1E-5		1E-5		1E-5	-	9E-06	4E-05[ace]	-	5E-06	-	9E-06	-	5E-06	9E-06
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m³		22000		220000		-	0.16 U	0.65 U	-	0.16 U	-	0.16 U	-	0.45 J	0.75 J
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			-	0.42 U	1.7 U	-	0.42 U	-	0.42 U	-	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		-	0.29 U	1.2 U	-	0.29 U	-	0.29 U	-	0.29 U	0.29 U
1,1-Dichloroethane	µg/m³	77		770		63	-	0.11 U	0.42 U	-	0.11 U	-	0.11 U	-	0.11 U	0.14 J
1,1-Dichloroethene	µg/m³		880		8800		-	0.13 U	0.51 U	-	0.13 U	-	0.13 U	-	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m³		8.8		88		-	0.73 UJ	2.9 U	-	0.73 UJ	-	0.73 UJ	-	0.73 U	0.73 U
1,2,4-Trimethylbenzene	µg/m³		31		310		-	1.9	47[b]	-	0.88 J	-	1.6	-	0.55 J	3.2
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		-	0.34 U	1.4 U	-	0.34 U	-	0.34 U	-	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m³		880		8800		-	0.42 U	1.7 U	-	0.42 U	-	0.42 U	-	0.42 U	0.42 U
1,2-Dichloroethane	µg/m³	4.7	31	47	310		-	0.19 U	0.76 U	-	0.19 U	-	0.19 U	-	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		-	0.24 U	0.96 U	-	0.24 U	-	0.24 U	-	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						-	0.22 U	0.89 U	-	0.22 U	-	0.22 U	-	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m³						-	0.50 J	11 J	-	0.32 U	-	0.47 J	-	0.32 UJ	0.66 J
1,3-Butadiene	µg/m³	4.1	8.8	41	88		-	0.14 U	0.57 U	-	0.14 U	-	0.14 U	-	1.2	1.6
1,3-Dichlorobenzene	µg/m³	11	3500	110	35000		-	0.39 U	1.6 U	-	0.39 U	-	0.39 U	-	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		-	1.7	1.5 U	-	1.5	-	1.5	-	0.38 U	0.38 U
1,4-Dioxane	µg/m³	16	13000	160	130000		-	0.29 UJ	1.2 U	-	0.29 UJ	-	0.29 UJ	-	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m³						-	0.42 J	55	-	0.28 J	-	0.45 J	-	2.6	0.57 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		-	1.7 J	6.0 J	-	1.1 J	-	1.9 J	-	5.0	10
2-Chlorotoluene	µg/m³						-	0.33 U	1.3 U	-	0.33 U	-	0.33 U	-	0.33 U	0.33 U
2-Hexanone	µg/m³		130		1300		-	0.24 UJ	0.95 U	-	0.24 UJ	-	0.24 UJ	-	0.24 U	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³						-	0.35 U	1.4 U	-	0.35 U	-	0.35 U	-	0.35 U	0.35 U
4-Ethyl toluene	µg/m³						-	0.61 J	15	-	0.38 J	-	0.72 J	-	0.32 U	0.43 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		-	25 J	7.8 J	-	8.0 J	-	13 J	-	0.54 J	0.85 J
Acetone	µg/m³		140000		1400000		-	13	54	-	7.9 J	-	12	-	18	29
Allyl chloride	µg/m³	20	4.4	200	44		-	0.15 U	0.60 U	-	0.15 U	-	0.15 U	-	0.15 U	0.15 U
Benzene	µg/m³	16	130	160	1300	4	-	0.69	46[ae]	-	0.56 J	-	0.68	-	1.9	2.1
Benzyl chloride	µg/m³	2.5	4.4	25	44		-	0.40 U	1.6 U	-	0.40 U	-	0.40 U	-	0.40 U	0.40 U
Bromodichloromethane	µg/m³	3.3		33			-	0.29 U	1.2 U	-	0.29 U	-	0.29 U	-	0.29 U	0.29 U
Bromoform	µg/m³	110		1,100			-	0.50 U	2.0 U	-	0.50 U	-	0.50 U	-	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m³		22		220		-	0.12 U	0.50 U	-	0.12 U	-	0.12 U	-	0.12 U	0.12 U
Butane	µg/m³						-	6.0	300	-	4.5	-	6.7	-	7.5	10.0
Carbon disulfide	µg/m³		3100		31000		-	0.097 U	0.39 U	-	0.097 U	-	0.097 U	-	1.1 J	0.86 J
Carbon tetrachloride	µg/m³	20	440	200	4400		-	0.51 J	0.96 UJ	-	0.49 J	-	0.47 J	-	0.57 J	0.57 J
Chlorobenzene	µg/m³		220		2200		-	0.23 U	0.90 U	-	0.23 U	-	0.23 U	-	0.23 U	0.23 U
Chlorodifluoromethane	µg/m³		220000		2200000		-	3.0	3.3	-	2.5	-	3.1	-	0.94	0.97
Chloroethane	µg/m³		44000		440000		-	0.092 U	0.37 U	-	0.092 U	-	0.092 U	-	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	-	0.32 J	1.8 J	-	0.24 J	-	0.36 J	-	0.19 U	0.19 U
Chloromethane (Methyl chloride)	µg/m³		390		3900		-	1.1	1.3 U	-	1.2	-	1.4	-	1.8	2.3
cis-1,2-Dichloroethene	µg/m³		260		2600	150	-	0.31 J	1.5 J	-	0.24 U	-	0.37 J	-	0.24 U	0.24 U
cis-1,3-Dichloropropene	µg/m³	31	88	310	880		-	0.34 U	1.3 U	-	0.34 U	-	0.34 U	-	0.34 U	0.34 U
Cyclohexane	µg/m³		26000		260000		-	0.72 J	26	-	0.27 J	-	0.54 J	-	0.98 J	1.1 J
Cymene (p-Isopropyltoluene)	µg/m³						-	0.31 U	1.3 U	-	0.31 U	-	0.33 J	-	0.31 U	0.33 J
Dibromochloromethane	µg/m³	4.5		45			-	0.36 U	1.4 U	-	0.36 U	-	0.36 U	-	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		-	2.4	2.2 J	-	2.5	-	2.8	-	2.2	2.1
Ethylbenzene	µg/m³	49	4400	490	44000	1300	-	0.74 J	44	-	0.41 J	-	0.72 J	-	0.92	1.4
Hexachlorobutadiene	µg/m³	5.6		56			-	0.83 UJ	3.3 U	-	0.83 UJ	-	0.83 UJ	-	0.83 U	0.83 U
Hexane	µg/m³		3100		31000		-	0.79 J	100	-	0.61 J	-	0.86 J	-	2.0	2.4
Isopropyl alcohol	µg/m³						-	61 J	16 J	-	33 J	-	74 J	-	7.0	15
Isopropyl benzene	µg/m³		1800		18000		-	0.29 U	3.5 J	-	0.29 U	-	0.29 U	-	0.29 U	0.29 U
m&p-Xylenes	µg/m³		440		4400	800	-	2.5	160	-	1.2	-	2.2	-	2.5	5.4
Methyl methacrylate	µg/m³		3100		31000		-	1.1 J	4.3 J	-	0.55 J	-	0.32 U	-	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		-	0.61 U	2.5 U	-	0.61 U	-	0.61 U	-	0.61 U	0.61 U
Methylene chloride	µg/m³	12,000	2600	120,000	26000		-	1.6 J	35	-	1.4 J	-	1.4 J	-	0.95 U	0.83 U
Naphthalene	µg/m³	3.6	13	36	130	15.2	-	0.61 J	4.7 J[a]	-	0.47 UJ	-	0.47 UJ	-	0.47 U	1.1 J
N-Butylbenzene	µg/m³						-	0.25 U	4.5 J	-	0.25 U	-	0.25 U	-	0.25 UJ	0.25 UJ
N-Decane	µg/m³						-	22	-	-	9.4	-	-	-	-	-
N-Dodecane	µg/m³						-	3.9 J	-	-	0.99 J	-	-	-	-	-
N-Heptane	µg/m³						-	7.7	41	-	2.4	-	4.1	-	2.0 J	3.7
Nonane	µg/m³		880		8800		-	8.9	-	-	3.7	-	-	-	-	-
N-Propylbenzene	µg/m³						-	0.28 J	9.3	-	0.28 U	-	0.28 J	-	0.28 U	0.28 U
N-Undecane	µg/m³						-	10 J	-	-	3.4 J	-	-	-	-	-
Octane	µg/m³						-	0.51 J	-	-	0.31 J	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172/1/IA_A S&J*	*Parcel 5172/1/IA_A S&J*	*Parcel 5172/1/IA_B Overstreet*	*Parcel 5172/1/IA_C S&J*	*Parcel 5172/1/IA_C S&J*	*Parcel 5172/1/IA_D S&J*	*Parcel 5172/1/IA_D S&J*	*Parcel 5172/1/IA_D S&J*	*Parcel 5172, Bldg 2, IA_A*	*Parcel 5172, Bldg 2, IA_B*
Sample ID:							*IA-38443-030712-JC-096*	*IA-38443-030712-JC-111*	*IA-38443-031512-JC-217*	*IA-38443-030712-JC-098*	*IA-38443-030712-JC-114*	*IA-38443-030712-JC-100*	*IA-38443-030712-JC-116*	*IA-38443-030712-JC-101*	*IA-38443-032712-JC-224*	*IA-38443-032712-JC-226*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/7/2012*	*3/7/2012*	*3/15/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/27/2012*	*3/27/2012*
		ELCR	HI	ELCR	HI	Non-residential										
	Units	*a*	*b*	*c*	*d*	*e*								*Duplicate*		
o-Xylene	µg/m^3		440		4400	800	-	1.1	51	-	0.53 J	-	0.99	-	0.83 J	2.1
Pentane	µg/m^3		4400		44000		-	13	-	-	12	-	-	-	-	-
Styrene	µg/m^3		4400		44000		-	0.32 J	2.5 J	-	0.25 U	-	0.28 J	-	0.25 U	0.35 J
tert-Butyl alcohol	µg/m^3						-	0.46 J	2.6 J	-	0.34 J	-	0.54 J	-	1.5 J	1.7 J
tert-Butylbenzene	µg/m^3						-	0.36 U	1.4 U	-	0.36 U	-	0.36 U	-	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	-	4.2	3.4 J	-	2.8	-	4.5	-	0.27 U	0.27 U
Tetrahydrofuran	µg/m^3						-	0.19 U	0.74 U	-	0.22 J	-	0.19 U	-	0.52 J	0.30 J
Toluene	µg/m^3		22000		220000		-	5.6	280	-	3.1	-	6.1	-	48	84
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	0.33 J	0.79 U	-	0.20 U	-	0.35 J	-	0.36 J	0.69 J
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		-	0.22 U	0.87 U	-	0.22 U	-	0.22 U	-	0.22 U	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	-	14^{be}	30^{be}	-	8.6	-	17^{be}	-	0.25 J	0.43 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	1.5	3.1 J	-	1.3	-	1.6	-	1.3	1.4
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	0.51 J	0.95 U	-	0.48 J	-	0.57 J	-	1.1 J	1.5
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		-	0.15 U	0.61 U	-	0.15 U	-	0.15 U	-	0.15 U	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	-	0.18 U	0.73 U	-	0.18 U	-	0.18 U	-	0.18 U	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-
Fixed Gases																
Ethane	%						-	0.22 U	-	-	0.22 U	-	-	-	-	-
Ethene	%						-	0.22 U	-	-	0.22 U	-	-	-	-	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	0.19 U	-	-	0.20 U	-	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	-	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0	0.0 Dup 0.0
Radon																
Radon-222	pCi/L						1.79 +/-0.09	-	-	1.98 +/-0.10	-	2.06 +/-0.10	-	1.72 +/-0.09	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172, Bldg 2, IA_C*	*Parcel 5172, Bldg 2, IA_C*	*Parcel 5172, Bldg 3, IA*	*Parcel 5172, Bldg 3, IA*	*Parcel 5173, Bldg 1, IA_A*	*Parcel 5173, Bldg 1, IA_B*	*Parcel 5173, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_C*
Sample ID:							*IA-38443-032712-JC-228*	*IA-38443-032712-JC-228*	*IA-38443-031412-JC-212*	*IA-38443-031512-JC-220*	*IA-38443-031312-JC-175*	*IA-38443-031312-JC-177*	*IA-38443-031312-JC-179*	*IA-38443-030512-JC-078*	*IA-38443-030612-JC-086*	*IA-38443-030512-JC-080*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/26/2012*	*3/27/2012*	*3/14/2012*	*3/15/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/5/2012*	*3/6/2012*	*3/5/2012*
		ELCR	HI	ELCR	HI	Non-residential										
	Units	*a*	*b*	*c*	*d*	*e*										
Cumulative Risk																
Total HI	µg/m³		1		1		-	0	-	9[bd]	3[bd]	0	1	-	0	-
Total Risk	µg/m³	1E-5		1E-5		1E-5	-	7E-06	-	2E-06	2E-05[ace]	3E-06	4E-06	-	2E-06	-
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m³		22000		220000		-	0.48 J	-	3.3 U	0.16 U	0.16 U	0.65 U	-	0.16 U	-
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			-	0.42 U	-	8.4 U	0.42 U	0.42 U	1.7 U	-	0.42 U	-
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		-	0.29 U	-	5.9 U	0.29 U	0.29 U	1.2 U	-	0.29 U	-
1,1-Dichloroethane	µg/m³	77		770		63	-	0.11 U	-	2.1 U	0.11 U	0.11 U	0.42 U	-	0.11 U	-
1,1-Dichloroethene	µg/m³		880		8800		-	0.13 U	-	2.5 U	0.13 U	0.13 U	0.51 U	-	0.13 U	-
1,2,4-Trichlorobenzene	µg/m³		8.8		88		-	0.73 U	-	15 U	0.73 U	0.73 U	2.9 U	-	0.73 U	-
1,2,4-Trimethylbenzene	µg/m³		31		310		-	3.5	-	260[b]	2.2	1.7	3.6 J	-	9.2	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		-	0.34 U	-	6.8 U	0.34 U	0.34 U	1.4 U	-	0.34 U	-
1,2-Dichlorobenzene	µg/m³		880		8800		-	0.42 U	-	8.4 U	0.42 U	0.42 U	1.7 U	-	0.42 U	-
1,2-Dichloroethane	µg/m³	4.7	31	47	310		-	0.19 U	-	6.1 J[a]	0.19 U	0.19 U	0.76 U	-	0.19 U	-
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		-	0.24 U	-	4.8 U	0.24 U	0.24 U	0.96 U	-	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						-	0.22 U	-	4.5 U	0.22 U	0.22 U	0.89 U	-	0.22 U	-
1,3,5-Trimethylbenzene	µg/m³						-	0.78 J	-	40 J	0.57 J	0.43 J	1.3 U	-	3.0	-
1,3-Butadiene	µg/m³	4.1	8.8	41	88		-	1.3	-	2.8 U	0.14 U	0.69 J	0.57 U	-	0.14 U	-
1,3-Dichlorobenzene	µg/m³	11	3500	110	35000		-	0.39 U	-	7.8 U	0.39 U	0.39 U	1.6 U	-	0.39 U	-
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		-	0.38 U	-	7.7 U	0.38 UJ	0.38 UJ	1.5 UJ	-	0.38 U	-
1,4-Dioxane	µg/m³	16	13000	160	130000		-	0.29 U	-	5.8 U	0.29 U	0.29 U	1.2 U	-	0.29 U	-
2,2,4-Trimethylpentane	µg/m³						-	0.45 J	-	460	0.26 J	0.18 U	4.0 J	-	1.6 J	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		-	8.2	-	12 U	2.5 J	1.7 J	6.8 J	-	0.97 J	-
2-Chlorotoluene	µg/m³						-	0.33 U	-	6.5 U	0.33 U	0.33 U	1.3 U	-	0.33 U	-
2-Hexanone	µg/m³		130		1300		-	0.24 U	-	4.8 U	0.24 U	0.24 U	0.95 U	-	0.24 U	-
2-Phenylbutane (sec-Butylbenzene)	µg/m³						-	0.35 U	-	7.0 U	0.35 U	0.35 U	1.4 U	-	0.35 U	-
4-Ethyl toluene	µg/m³						-	0.47 J	-	53	1.6 J	0.66 J	2.3 J	-	4.2	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		-	0.94 J	-	5.0 J	15	45	25	-	0.18 U	-
Acetone	µg/m³		140000		1400000		-	35	-	67 U	55	15	24 J	-	43	-
Allyl chloride	µg/m³	20	4.4	200	44		-	0.15 U	-	3.0 U	0.15 U	0.15 U	0.60 U	-	0.15 U	-
Benzene	µg/m³	16	130	160	1300	4	-	1.9	-	93[ae]	1.5	1.6	1.6 J	-	1.3	-
Benzyl chloride	µg/m³	2.5	4.4	25	44		-	0.40 U	-	8.1 U	0.40 U	0.40 U	1.6 U	-	0.40 U	-
Bromodichloromethane	µg/m³	3.3		33			-	0.29 U	-	5.9 U	0.29 U	0.29 U	1.2 U	-	0.29 U	-
Bromoform	µg/m³	110		1,100			-	0.50 U	-	9.9 U	0.50 U	0.50 U	2.0 U	-	0.50 U	-
Bromomethane (Methyl bromide)	µg/m³		22		220		-	0.12 U	-	2.5 U	0.12 U	0.12 U	0.50 U	-	0.12 U	-
Butane	µg/m³						-	8.4	-	640	6.5 J	2.8 J	21 J	-	5.4	-
Carbon disulfide	µg/m³		3100		31000		-	0.70 J	-	1.9 U	0.27 J	0.30 J	0.39 U	-	0.22 J	-
Carbon tetrachloride	µg/m³	20	440	200	4400		-	0.57 J	-	4.8 UJ	0.60 J	0.51 J	0.96 U	-	0.50 J	-
Chlorobenzene	µg/m³		220		2200		-	0.23 U	-	4.5 U	0.23 U	0.23 U	0.90 U	-	0.23 U	-
Chlorodifluoromethane	µg/m³		220000		2200000		-	0.92	-	12 J	3.3 J	3.4 J	5.4 J	-	1.3	-
Chloroethane	µg/m³		44000		440000		-	0.092 U	-	1.8 U	0.092 U	0.092 U	0.37 U	-	0.092 U	-
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	-	0.19 U	-	3.7 U	0.38 J	0.19 U	0.74 U	-	0.19 U	-
Chloromethane (Methyl chloride)	µg/m³		390		3900		-	2.0	-	6.6 U	2.2	1.7	1.3 U	-	0.98 J	-
cis-1,2-Dichloroethene	µg/m³		260		2600	150	-	0.24 U	-	4.8 U	0.24 U	0.24 U	0.95 U	-	0.24 U	-
cis-1,3-Dichloropropene	µg/m³	31	88	310	880		-	0.34 U	-	6.7 U	0.34 U	0.34 U	1.3 U	-	0.34 U	-
Cyclohexane	µg/m³		26000		260000		-	1.1 J	-	31 J	1.1 J	0.44 J	14	-	9.6	-
Cymene (p-Isopropyltoluene)	µg/m³						-	0.46 J	-	6.3 U	0.31 U	0.31 U	1.3 U	-	0.31 U	-
Dibromochloromethane	µg/m³	4.5		45			-	0.36 U	-	7.2 U	0.36 U	0.36 U	1.4 U	-	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		-	2.1	-	6.7 U	2.8	2.7	3.5 J	-	2.7	-
Ethylbenzene	µg/m³	49	4400	490	44000	1300	-	1.4	-	100[a]	0.66 J	0.50 J	1.9 J	-	2.9	-
Hexachlorobutadiene	µg/m³	5.6		56			-	0.83 U	-	17 U	0.83 U	0.83 U	3.3 U	-	0.83 U	-
Hexane	µg/m³		3100		31000		-	1.6 J	-	160	8.7	2.2	89	-	40	-
Isopropyl alcohol	µg/m³						-	15	-	35 J	58	3.1 J	15 J	-	0.86 J	-
Isopropyl benzene	µg/m³		1800		18000		-	0.29 U	-	13 J	0.29 U	0.29 U	1.2 U	-	0.76 J	-
m&p-Xylenes	µg/m³		440		4400	800	-	5.5	-	440	2.2	1.9	6.9	-	10	-
Methyl methacrylate	µg/m³		3100		31000		-	0.32 U	-	6.5 U	0.32 U	0.32 U	1.3 U	-	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		-	0.61 U	-	12 U	0.61 U	0.61 U	2.5 U	-	0.61 U	-
Methylene chloride	µg/m³	12,000	2600	120,000	26000		-	0.75 U	-	7.7 U	1.1 J	1.00 J	4.7 J	-	4.6	-
Naphthalene	µg/m³	3.6	13	36	130	15.2	-	0.88 J	-	17 J[abe]	1.3 J	0.47 U	1.9 U	-	0.47 U	-
N-Butylbenzene	µg/m³						-	0.25 UJ	-	14 J	0.37 J	0.25 U	1.0 U	-	0.25 U	-
N-Decane	µg/m³						-	-	-	-	-	-	-	-	3.0 J	-
N-Dodecane	µg/m³						-	-	-	-	-	-	-	-	0.54 U	-
N-Heptane	µg/m³						-	2.8	-	65	0.93 J	0.40 J	5.6 J	-	30	-
Nonane	µg/m³		880		8800		-	-	-	-	-	-	-	-	16	-
N-Propylbenzene	µg/m³						-	0.28 J	-	30 J	0.28 U	0.28 U	1.1 U	-	2.8	-
N-Undecane	µg/m³						-	-	-	-	-	-	-	-	1.5 J	-
Octane	µg/m³						-	-	-	-	-	-	-	-	3.7	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172, Bldg 2, IA_C*	*Parcel 5172, Bldg 2, IA_C*	*Parcel 5172, Bldg 3, IA*	*Parcel 5172, Bldg 3, IA*	*Parcel 5173, Bldg 1, IA_A*	*Parcel 5173, Bldg 1, IA_B*	*Parcel 5173, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_C*
Sample ID:							*IA-38443-032712-JC-228*	*IA-38443-032712-JC-228*	*IA-38443-031412-JC-212*	*IA-38443-031512-JC-220*	*IA-38443-031312-JC-175*	*IA-38443-031312-JC-177*	*IA-38443-031312-JC-179*	*IA-38443-030512-JC-078*	*IA-38443-030612-JC-086*	*IA-38443-030512-JC-080*
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/26/2012*	*3/27/2012*	*3/14/2012*	*3/15/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/5/2012*	*3/6/2012*	*3/5/2012*
		ELCR	HI	ELCR	HI	Non-residential										
	Units	*a*	*b*	*c*	*d*	*e*										
o-Xylene	µg/m^3		440		4400	800	-	2.0	-	150	0.92	0.72 J	2.7 J	-	4.7	-
Pentane	µg/m^3		4400		44000		-	-	-	-	-	-	-	-	24	-
Styrene	µg/m^3		4400		44000		-	0.40 J	-	4.9 U	0.49 J	0.35 J	0.99 U	-	0.25 U	-
tert-Butyl alcohol	µg/m^3						-	1.2 J	-	2.3 U	0.84 J	0.38 J	0.46 U	-	0.14 J	-
tert-Butylbenzene	µg/m^3						-	0.36 U	-	7.2 U	0.36 U	0.36 U	1.4 U	-	0.36 U	-
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	-	0.27 U	-	5.4 U	5.7	9.7	800[abc]	-	0.27 U	-
Tetrahydrofuran	µg/m^3						-	0.19 U	-	3.7 U	0.19 U	0.19 U	0.74 U	-	0.76 J	-
Toluene	µg/m^3		22000		220000		-	130	-	2200	14	4.8	57	-	150	-
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	0.40 J	-	4.0 U	0.20 U	0.20 U	0.79 U	-	0.20 U	-
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		-	0.22 U	-	4.4 U	0.22 U	0.22 U	0.87 U	-	0.22 U	-
Trichloroethene	µg/m^3	30	8.8	300	88	10	-	0.20 J	-	5.3 J	28[be]	0.67 J	8.8	-	0.19 U	-
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	1.3	-	3.3 J	2.0	1.4	1.7 J	-	1.0 J	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	1.1 J	-	4.8 U	0.69 J	0.60 J	0.95 U	-	0.47 J	-
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		-	0.15 U	-	3.1 U	0.15 U	0.15 U	0.61 U	-	0.15 U	-
Vinyl chloride	µg/m^3	28	440	280	4400	4	-	0.18 U	-	3.6 U	0.18 U	0.18 U	0.73 U	-	0.18 U	-
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-
Fixed Gases																
Ethane	%						-	-	-	-	-	-	-	-	0.22 U	-
Ethene	%						-	-	-	-	-	-	-	-	0.22 U	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	0.20 U	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0	0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	-
Radon																
Radon-222	pCi/L						-	-	2.4 +/-0.2	-	-	-	-	0.08 +/-0.05	-	0.06 +/-0.04

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5175, Bldg 1, IA_A*	*Parcel 5175, Bldg 1, IA_B*	*Parcel 5054, Bldg 6*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg MP*	*Parcel 5171, Bldg 4*
Sample ID:							*IA-38443-030612-JC-088*	*IA-38443-030612-JC-089*	*IA-38443-030512-JC-082*	*IA-38443-030512-JC-083*	*IA-38443-030612-JC-092*	*IA-38443-030712-JC-105*	*IA-38443-030712-JC-107*	-	-	-	-
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/6/2012*	*3/6/2012*	*3/5/2012*	*3/5/2012*	*3/6/2012*	*3/7/2012*	*3/7/2012*	*4/4/2012*	*4/4/2012*	*4/4/2012*	*4/4/2012*
		ELCR	HI	ELCR	HI	Non-residential		*Duplicate*		*Duplicate*							
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m³		1		1		0	-	-	-	0	0	0	-	-	-	-
Total Risk	µg/m³	1E-5		1E-5		1E-5	3E-06	-	-	-	1E-06	6E-07	7E-07	-	-	-	-
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m³		22000		220000		0.16 U	0.16 U	-	-	0.16 U	0.16 U	0.16 U	-	-	-	-
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			0.42 U	0.42 U	-	-	0.42 U	0.42 U	0.42 U	-	-	-	-
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		0.29 U	0.29 U	-	-	0.29 U	0.29 U	0.29 U	-	-	-	-
1,1-Dichloroethane	µg/m³	77		770		63	0.11 U	0.11 U	-	-	0.11 U	0.11 U	0.11 U	-	-	-	-
1,1-Dichloroethene	µg/m³		880		8800		0.13 U	0.13 U	-	-	0.13 U	0.13 U	0.13 U	-	-	-	-
1,2,4-Trichlorobenzene	µg/m³		8.8		88		0.73 U	0.73 U	-	-	0.73 U	0.73 UJ	0.73 UJ	-	-	-	-
1,2,4-Trimethylbenzene	µg/m³		31		310		5.6	4.9	-	-	3.2	0.31 U	0.85 J	-	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		0.34 U	0.34 U	-	-	0.34 U	0.34 U	0.34 U	-	-	-	-
1,2-Dichlorobenzene	µg/m³		880		8800		0.42 U	0.42 U	-	-	0.42 U	0.42 U	0.42 U	-	-	-	-
1,2-Dichloroethane	µg/m³	4.7	31	47	310		0.25 J	0.35 J	-	-	0.19 U	0.19 U	0.19 U	-	-	-	-
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		0.24 U	0.24 U	-	-	0.24 U	0.24 U	0.24 U	-	-	-	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	0.22 U	-	-	0.22 U	0.22 U	0.22 U	-	-	-	-
1,3,5-Trimethylbenzene	µg/m³						1.6	1.5	-	-	0.98	0.32 U	0.32 U	-	-	-	-
1,3-Butadiene	µg/m³	4.1	8.8	41	88		0.14 U	0.14 U	-	-	0.14 U	0.14 U	0.14 U	-	-	-	-
1,3-Dichlorobenzene	µg/m³	11	3500	110	35000		0.39 U	0.39 U	-	-	0.39 U	0.39 U	0.39 U	-	-	-	-
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		0.38 U	0.38 U	-	-	0.38 U	0.38 U	0.38 U	-	-	-	-
1,4-Dioxane	µg/m³	16	13000	160	130000		0.29 U	0.29 U	-	-	0.29 U	0.29 UJ	0.29 UJ	-	-	-	-
2,2,4-Trimethylpentane	µg/m³						1.1 J	0.99 J	-	-	0.37 J	0.20 J	0.33 J	-	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		1.1 J	0.94 J	-	-	0.91 J	0.65 J	0.65 J	-	-	-	-
2-Chlorotoluene	µg/m³						0.33 U	0.33 U	-	-	0.33 U	0.33 U	0.33 U	-	-	-	-
2-Hexanone	µg/m³		130		1300		0.24 U	0.24 U	-	-	0.24 U	0.24 UJ	0.24 UJ	-	-	-	-
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	0.35 U	-	-	0.35 U	0.35 U	0.35 U	-	-	-	-
4-Ethyl toluene	µg/m³						2.1	2.0	-	-	1.3 J	0.32 U	0.32 U	-	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		0.18 U	0.41 J	-	-	0.18 U	0.18 UJ	0.18 UJ	-	-	-	-
Acetone	µg/m³		140000		1400000		26	26	-	-	27	4.4 J	4.1 J	-	-	-	-
Allyl chloride	µg/m³	20	4.4	200	44		0.15 U	0.15 U	-	-	0.15 U	0.15 U	0.15 U	-	-	-	-
Benzene	µg/m³	16	130	160	1300	4	1.1	0.99	-	-	0.83	0.50 J	0.61 J	-	-	-	-
Benzyl chloride	µg/m³	2.5	4.4	25	44		0.40 U	0.40 U	-	-	0.40 U	0.40 U	0.40 U	-	-	-	-
Bromodichloromethane	µg/m³	3.3		33			0.29 U	0.29 U	-	-	0.29 U	0.29 U	0.29 U	-	-	-	-
Bromoform	µg/m³	110		1,100			0.50 U	0.50 U	-	-	0.50 U	0.50 U	0.50 U	-	-	-	-
Bromomethane (Methyl bromide)	µg/m³		22		220		0.12 U	0.12 U	-	-	0.12 U	0.12 U	0.12 U	-	-	-	-
Butane	µg/m³						16	16	-	-	3.4	2.1	3.2	-	-	-	-
Carbon disulfide	µg/m³		3100		31000		0.13 J	0.097 J	-	-	0.11 J	0.097 U	0.097 U	-	-	-	-
Carbon tetrachloride	µg/m³	20	440	200	4400		0.56 J	0.52 J	-	-	0.49 J	0.52 J	0.48 J	-	-	-	-
Chlorobenzene	µg/m³		220		2200		0.23 U	0.23 U	-	-	0.23 U	0.23 U	0.23 U	-	-	-	-
Chlorodifluoromethane	µg/m³		220000		2200000		1.2	1.3	-	-	4.1	2.0	13	-	-	-	-
Chloroethane	µg/m³		44000		440000		0.092 U	0.092 U	-	-	0.092 U	0.092 U	0.092 U	-	-	-	-
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	0.19 U	0.19 U	-	-	0.19 U	0.19 U	0.19 U	-	-	-	-
Chloromethane (Methyl chloride)	µg/m³		390		3900		1.3	1.3	-	-	1.4	1.0	1.1	-	-	-	-
cis-1,2-Dichloroethene	µg/m³		260		2600	150	0.24 U	0.24 U	-	-	0.24 U	0.24 U	0.24 U	-	-	-	-
cis-1,3-Dichloropropene	µg/m³	31	88	310	880		0.34 U	0.34 U	-	-	0.34 U	0.34 U	0.34 U	-	-	-	-
Cyclohexane	µg/m³		26000		260000		3.4	3.1	-	-	1.5 J	0.17 J	0.19 J	-	-	-	-
Cymene (p-Isopropyltoluene)	µg/m³						0.31 U	0.31 U	-	-	0.31 U	0.31 U	0.31 U	-	-	-	-
Dibromochloromethane	µg/m³	4.5		45			0.36 U	0.36 U	-	-	0.36 U	0.36 U	0.36 U	-	-	-	-
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		2.8	2.9	-	-	3.0	2.6	2.6	-	-	-	-
Ethylbenzene	µg/m³	49	4400	490	44000	1300	2.5	2.4	-	-	1.8	0.30 U	0.47 J	-	-	-	-
Hexachlorobutadiene	µg/m³	5.6		56			0.83 U	0.83 U	-	-	0.83 U	0.83 UJ	0.83 UJ	-	-	-	-
Hexane	µg/m³		3100		31000		47	46	-	-	32	0.66 J	0.95 J	-	-	-	-
Isopropyl alcohol	µg/m³						0.78 J	4.2 J	-	-	0.85 J	0.88 J	0.62 J	-	-	-	-
Isopropyl benzene	µg/m³		1800		18000		0.36 J	0.33 J	-	-	0.29 U	0.29 U	0.29 U	-	-	-	-
m&p-Xylenes	µg/m³		440		4400	800	8.8	8.5	-	-	6.1	0.55 J	1.7	-	-	-	-
Methyl methacrylate	µg/m³		3100		31000		0.32 U	0.58 J	-	-	0.32 U	0.32 U	0.32 U	-	-	-	-
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		0.61 U	0.61 U	-	-	0.61 U	0.61 U	0.61 U	-	-	-	-
Methylene chloride	µg/m³	12,000	2600	120,000	26000		1.2 U	1.2 U	-	-	1.7 U	1.1 J	0.98 J	-	-	-	-
Naphthalene	µg/m³	3.6	13	36	130	15.2	0.49 J	0.47 U	-	-	0.47 U	0.47 UJ	0.47 UJ	-	-	-	-
N-Butylbenzene	µg/m³						0.34 J	0.29 J	-	-	0.25 U	0.25 U	0.25 U	-	-	-	-
N-Decane	µg/m³						1.5 J	1.4 J	-	-	-	-	-	-	-	-	-
N-Dodecane	µg/m³						0.54 U	0.54 U	-	-	-	-	-	-	-	-	-
N-Heptane	µg/m³						7.2	6.6	-	-	3.3	0.40 J	0.53 J	-	-	-	-
Nonane	µg/m³		880		8800		5.3	5.4	-	-	-	-	-	-	-	-	-
N-Propylbenzene	µg/m³						1.3 J	1.2 J	-	-	0.78 J	0.28 U	0.28 U	-	-	-	-
N-Undecane	µg/m³						0.85 J	1.1 J	-	-	-	-	-	-	-	-	-
Octane	µg/m³						2.2	2.0	-	-	-	-	-	-	-	-	-

TABLE 4.6

SUMMARY OF ROUND 1 FOLLOW-UP INDOOR AIR ANALYTICAL RESULTS - MARCH 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5175, Bldg 1, IA_A*	*Parcel 5175, Bldg 1, IA_B*	*Parcel 5054, Bldg 6*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg MP*	*Parcel 5171, Bldg 4*
Sample ID:							*IA-38443-030612-JC-088*	*IA-38443-030612-JC-089*	*IA-38443-030512-JC-082*	*IA-38443-030512-JC-083*	*IA-38443-030612-JC-092*	*IA-38443-030712-JC-105*	*IA-38443-030712-JC-107*	-	-	-	-
Sample Date:		Industrial IASL For Mitigation		Industrial IASL For Rapid Response		ODH IA	*3/6/2012*	*3/6/2012*	*3/5/2012*	*3/5/2012*	*3/6/2012*	*3/7/2012*	*3/7/2012*	*4/4/2012*	*4/4/2012*	*4/4/2012*	*4/4/2012*
		ELCR	HI	ELCR	HI	Non-residential		*Duplicate*		*Duplicate*							
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	3.4	3.2	-	-	1.9	0.26 U	0.61 J	-	-	-	-
Pentane	µg/m^3		4400		44000		21	22	-	-	-	-	-	-	-	-	-
Styrene	µg/m^3		4400		44000		0.25 U	0.25 U	-	-	0.25 U	0.25 U	0.25 U	-	-	-	-
tert-Butyl alcohol	µg/m^3						0.18 J	0.59 J	-	-	0.29 J	0.14 J	0.12 U	-	-	-	-
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	-	-	0.36 U	0.36 U	0.36 U	-	-	-	-
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	0.27 U	0.27 U	-	-	2.1	0.27 U	0.27 U	-	-	-	-
Tetrahydrofuran	µg/m^3						0.19 U	0.26 J	-	-	0.19 U	0.19 U	0.19 U	-	-	-	-
Toluene	µg/m^3		22000		220000		70	67	-	-	53	2.1	2.7	-	-	-	-
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	0.20 U	-	-	0.20 U	0.20 U	0.20 U	-	-	-	-
trans-1,3-Dichloropropene	µg/m^3	31	88	310	880		0.22 U	0.22 U	-	-	0.22 U	0.22 U	0.22 U	-	-	-	-
Trichloroethene	µg/m^3	30	8.8	300	88	10	0.19 U	0.19 U	-	-	0.30 J	0.19 U	0.19 U	-	-	-	-
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		0.93 J	0.93 J	-	-	1.1	1.3	1.2	-	-	-	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.49 J	0.52 J	-	-	0.59 J	0.52 J	0.52 J	-	-	-	-
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	0.15 U	-	-	0.15 U	0.15 U	0.15 U	-	-	-	-
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	0.18 U	-	-	0.18 U	0.18 U	0.18 U	-	-	-	-
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						0.19 U	0.20 U	-	-	-	-	-	-	-	-	-
Ethene	%						0.19 U	0.20 U	-	-	-	-	-	-	-	-	-
Methane	%	0.05	0.05	0.05	0.05	0.05	0.17 U	0.18 U	-	-	-	-	-	-	-	-	-
Methane, field, unfiltered	%	0.05	0.05	0.05	0.05	0.05	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	-	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0	0.0	0.0	0.0
Radon																	
Radon-222	pCi/L						-	-	0.11 +/-0.03	0.11 +/-0.03	-	-	-	-	-	-	-

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

IASL - Indoor Air Screening Level

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

- - Not applicable.

The Industrial IASLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

[ ] - Concentration was greater than applicable criteria.

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1, Probe A*	*Parcel 3207, Bldg 1, Probe B*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe E*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe C*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-081112-GL-072*	*SS-38443-081112-GL-073*	*SS-38443-081112-GL-074*	*SS-38443-081112-GL-075*	*SS-38443-081112-GL-076*	*SS-38443-081112-GL-077*	*SSR-38443-081012-GL-013*	*SS-38443-081112-GL-083*	*SS-38443-081112-GL-085*	*SSR-38443-081012-GL-015*
Sample Date:							*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/11/2012*	*8/10/2012*
		ELCR	HI	ELCR	HI					*Duplicate*						
	Units	*a*	*b*	*c*	*d*	*e*										
Cumulative Risk																
Total HI	µg/m^3		1		1		0	0	0	-	0	0	-	1	3[d]	-
Total Risk	µg/m^3	1E-5		1E-5			3E-06	1E-07	2E-06	-	3E-07	3E-07	-	3E-06	1E-05	-
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m^3		22000		220000		16	0.40 J	2.1 J	2.2	0.90 J	0.43 J	-	1.4	26	-
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			0.84 U	0.42 U	0.84 U	0.84 U	0.84 U	0.42 U	-	0.42 U	0.42 U	-
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		0.59 U	0.29 U	0.59 U	0.59 U	0.59 U	0.29 U	-	0.29 U	0.29 U	-
1,1-Dichloroethane	µg/m^3	77		770		630	0.24 J	0.11 U	0.21 U	0.21 U	0.21 U	0.11 U	-	0.11 U	0.11 U	-
1,1-Dichloroethene	µg/m^3		880		8800		0.32 J	0.13 U	0.25 U	0.25 U	0.25 U	0.13 U	-	0.13 U	0.13 U	-
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		1.5 UJ	0.73 UJ	1.5 UJ	1.5 UJ	1.5 UJ	0.73 UJ	-	0.73 UJ	0.73 UJ	-
1,2,4-Trimethylbenzene	µg/m^3		31		310		44	0.31 U	5.9	6.2	0.62 U	0.52 J	-	1.6	9.5	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39	2.0	390		0.68 U	0.34 U	0.68 U	0.68 U	0.68 U	0.34 U	-	0.34 U	0.34 U	-
1,2-Dichlorobenzene	µg/m^3		880		8800		0.84 U	0.42 U	0.84 U	0.84 U	0.84 U	0.42 U	-	0.42 U	0.42 U	-
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		0.78 J	0.19 U	0.38 U	0.38 U	0.38 U	0.19 U	-	0.19 U	0.19 U	-
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		0.48 U	0.24 U	0.48 U	0.48 U	0.48 U	0.24 U	-	0.24 U	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						0.45 U	0.22 U	0.45 U	0.45 U	0.45 U	0.22 U	-	0.22 U	0.22 U	-
1,3,5-Trimethylbenzene	µg/m^3						86	0.32 U	14	13	0.64 U	0.32 U	-	0.32 U	0.32 U	-
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		0.28 U	0.14 U	0.28 U	0.28 U	0.28 U	0.14 U	-	0.14 U	0.14 U	-
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		0.78 U	0.39 U	0.78 U	0.78 U	0.78 U	0.39 U	-	0.39 U	0.39 U	-
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		0.77 U	0.38 U	0.77 U	0.77 U	0.77 U	0.38 U	-	0.38 U	0.38 U	-
1,4-Dioxane	µg/m^3	16	13000	160	130000		0.75 J	0.29 U	0.58 U	0.58 U	0.62 J	0.29 U	-	0.29 U	0.29 U	-
2,2,4-Trimethylpentane	µg/m^3						7.5	0.18 U	8.2	9.3	0.36 U	0.18 U	-	0.18 U	0.18 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		2.0 J	0.74 J	2.2 J	2.1 J	2.5 J	2.6 J	-	2.9	1.5 J	-
2-Chlorotoluene	µg/m^3						0.65 U	0.33 U	0.65 U	0.65 U	0.65 U	0.33 U	-	0.33 U	0.33 U	-
2-Hexanone	µg/m^3		130		1300		0.48 U	0.24 U	0.48 U	0.48 U	0.48 U	0.24 U	-	0.24 U	0.29 J	-
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						4.2 J	0.35 U	1.9 J	1.8 J	0.70 U	0.35 U	-	0.35 U	0.35 U	-
4-Ethyl toluene	µg/m^3						19	0.32 U	4.7	4.5	0.65 U	0.32 U	-	0.32 U	0.88 J	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (M	µg/m^3		13000		130000		0.37 U	0.18 U	0.37 U	0.37 U	0.37 U	0.18 U	-	11	0.30 J	-
Acetone	µg/m^3		140000		1400000		41	12	32	29	41	27	-	31	9.7 J	-
Allyl chloride	µg/m^3	20	4.4	200	44		0.30 U	0.15 U	0.30 U	0.30 U	0.30 U	0.15 U	-	0.15 U	0.15 U	-
Benzene	µg/m^3	16	130	160	1300	40	29	0.18 U	15	16	0.56 J	0.21 J	-	0.32 J	0.18 U	-
Benzyl chloride	µg/m^3	2.5	4.4	25	44		0.81 U	0.40 U	0.81 U	0.81 U	0.81 U	0.40 U	-	0.40 U	0.40 U	-
Bromodichloromethane	µg/m^3	3.3		33			0.59 U	0.29 U	0.59 U	0.59 U	0.59 U	0.29 U	-	0.29 U	0.29 U	-
Bromoform	µg/m^3	110		1,100			0.99 U	0.50 U	0.99 U	0.99 U	0.99 U	0.50 U	-	0.50 U	0.50 U	-
Bromomethane (Methyl bromide)	µg/m^3		22		220		0.25 U	0.12 U	0.25 U	0.25 U	0.25 U	0.12 U	-	0.12 U	0.12 U	-
Butane	µg/m^3						220	0.20 J	90	100	30	1.3	-	1.7	0.24 J	-
Carbon disulfide	µg/m^3		3100		31000		0.79 J	0.097 U	0.67 J	1.4 J	2.6 J	0.69 J	-	0.69 J	0.90 J	-
Carbon tetrachloride	µg/m^3	20	440	200	4400		0.49 J	0.38 J	0.48 U	0.48 U	0.48 U	0.41 J	-	0.24 U	1.9	-
Chlorobenzene	µg/m^3		220		2200		1.6 J	0.23 U	0.65 J	0.69 J	0.45 U	0.23 U	-	0.23 U	0.23 U	-
Chlorodifluoromethane	µg/m^3		220000		2200000		5.7	33	27	28	23	31	-	3.5	4.0	-
Chloroethane	µg/m^3		44000		440000		1.5	0.092 U	0.23 J	0.23 J	0.35 J	0.092 U	-	0.092 U	0.092 U	-
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	4000	0.77 J	0.19 U	0.49 J	0.55 J	0.37 U	0.25 J	-	0.44 J	0.37 J	-
Chloromethane (Methyl chloride)	µg/m^3		390		3900		0.66 U	0.33 U	0.66 U	0.66 U	0.66 U	0.93 J	-	0.55 J	0.62 J	-
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	1500	0.54 J	0.24 U	0.48 U	0.48 U	0.48 U	0.27 J	-	3.4	0.24 U	-
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		0.67 U	0.34 U	0.67 U	0.67 U	0.67 U	0.34 U	-	0.34 U	0.34 U	-
Cyclohexane	µg/m^3		26000		260000		38	0.14 U	20	23	0.68 J	0.64 J	-	0.82 J	0.14 U	-
Cymene (p-Isopropyltoluene)	µg/m^3						5.1	0.31 U	3.7	3.3	0.63 U	0.31 U	-	0.31 U	0.47 J	-
Dibromochloromethane	µg/m^3	4.5		45			0.72 U	0.36 U	0.72 U	0.72 U	0.72 U	0.36 U	-	0.36 U	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		3.6	2.7	2.9	3.1	2.9	2.5	-	4.7	3.3	-
Ethylbenzene	µg/m^3	49	4400	490	44000	13000	13	0.30 U	7.1	7.1	0.59 U	0.42 J	-	2.9	0.30 U	-
Hexachlorobutadiene	µg/m^3	5.6		56			1.7 UJ	0.83 U	1.7 UJ	1.7 UJ	1.7 UJ	0.83 UJ	-	0.83 UJ	0.83 UJ	-
Hexane	µg/m^3		3100		31000		28	0.18 J	19	20	2.8 J	1.1 J	-	0.50 J	0.13 J	-
Isopropyl alcohol	µg/m^3						0.22 U	0.57 J	1.7 J	1.7 J	2.9 J	0.72 J	-	0.83 J	0.58 J	-
Isopropyl benzene	µg/m^3		1800		18000		63	0.29 U	3.1 J	2.9 J	0.59 U	0.29 U	-	0.29 U	0.29 U	-
m&p-Xylenes	µg/m^3		440		4400	8000	59	0.52 U	26	25	1.0 U	1.1	-	11	0.77 J	-
Methyl methacrylate	µg/m^3		3100		31000		0.65 U	0.32 U	0.65 U	0.65 U	0.65 U	0.32 U	-	0.32 U	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		1.2 U	0.61 U	1.2 U	1.2 U	1.2 U	0.61 U	-	0.61 U	0.61 U	-
Methylene chloride	µg/m^3	12000	2600	120,000	26000		2.1 U	0.93 U	1.9 U	1.7 U	37	7.4	-	0.62 U	0.50 U	-
Naphthalene	µg/m^3	3.6	13	36	130	15.2	0.94 UJ	0.47 UJ	0.94 UJ	0.94 UJ	0.94 UJ	0.47 UJ	-	0.47 UJ	0.47 UJ	-
N-Butylbenzene	µg/m^3						12	0.25 U	3.3 J	2.7 J	0.51 U	0.25 U	-	0.25 U	0.51 J	-
N-Decane	µg/m^3						8.9 J	0.33 UJ	2.0 J	5.3 J	0.65 J	1.0 J	-	0.79 J	7.2 J	-

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1, Probe A*	*Parcel 3207, Bldg 1, Probe B*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe C*	*Parcel 3207, Bldg 1, Probe D*	*Parcel 3207, Bldg 1, Probe E*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe A*	*Parcel 3207, Bldg 2, Probe B*	*Parcel 3207, Bldg 2, Probe C*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-081112-GL-072*	*SS-38443-081112-GL-073*	*SS-38443-081112-GL-074*	*SS-38443-081112-GL-075*	*SS-38443-081112-GL-076*	*SS-38443-081112-GL-077*	*SSR-38443-081012-GL-013*	*SS-38443-081112-GL-083*	*SS-38443-081112-GL-085*	*SSR-38443-081012-GL-015*
Sample Date:							*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/11/2012*	*8/10/2012*
		ELCR	HI	ELCR	HI					*Duplicate*						
	Units	*a*	*b*	*c*	*d*	*e*										
N-Dodecane	µg/m³						2.1 J	1.2 J	1.2 J	1.1 J	1.6 J	1.1 J	-	1.0 J	1.5 J	-
N-Heptane	µg/m³						7.9	0.19 U	4.7	5.4	0.39 U	0.59 J	-	0.74 J	0.19 U	-
Nonane	µg/m³		880		8800		10	0.23 U	2.3 J	2.5 J	0.45 U	0.55 J	-	0.29 J	0.72 J	-
N-Propylbenzene	µg/m³						4.1	0.28 U	1.5 J	1.5 J	0.55 U	0.28 U	-	0.28 U	0.52 J	-
N-Undecane	µg/m³						0.79 U	0.40 U	0.79 U	0.79 U	0.79 J	1.00 J	-	1.2 J	1.6 J	-
Octane	µg/m³						3.1 J	0.17 U	0.41 J	0.49 J	0.34 U	0.57 J	-	0.25 J	0.17 U	-
o-Xylene	µg/m³		440		4400	8000	68	0.26 U	29	28	0.53 U	0.39 J	-	6.2	0.53 J	-
Pentane	µg/m³		4400		44000		94	0.63 J	65	69	9.9	2.3 J	-	1.2 J	0.18 U	-
Styrene	µg/m³		4400		44000		0.49 U	0.25 U	0.49 U	0.49 U	0.50 J	0.25 U	-	3.3	0.25 U	-
tert-Butyl alcohol	µg/m³						30	0.17 J	33	34	3.1 J	0.12 UJ	-	0.12 UJ	0.20 J	-
tert-Butylbenzene	µg/m³						0.72 U	0.36 U	0.72 U	0.72 U	0.72 U	0.36 U	-	0.36 U	0.36 U	-
Tetrachloroethene	µg/m³	470	180	4700	1800	1700	45	19	30	34	22	10	-	270	860	-
Tetrahydrofuran	µg/m³						0.48 J	0.19 U	1.4 J	1.6 J	0.37 U	0.31 J	-	0.19 U	0.19 U	-
Toluene	µg/m³		22000		220000		67	0.33 J	41	44	3.5	2.5	-	7.0	0.57 J	-
trans-1,2-Dichloroethene	µg/m³		260		2600		0.40 U	0.20 U	0.40 U	0.40 U	0.40 U	0.20 U	-	1.5	0.20 U	-
trans-1,3-Dichloropropene[d]	µg/m³	31	88	310	880		0.44 U	0.22 U	0.44 U	0.44 U	0.44 U	0.22 U	-	0.22 U	0.22 U	-
Trichloroethene	µg/m³	30	8.8	300	88	100	15	2.2	6.7	7.7	5.2	6.3	-	56	260[de]	-
Trichlorofluoromethane (CFC-11)	µg/m³		3100		31000		9.5	2.6	4.0	4.5	5.3	2.9	-	24	3.5	-
Trifluorotrichloroethane (Freon 113)	µg/m³		130000		1300000		0.89 J	0.65 J	0.63 J	0.73 J	0.70 J	0.57 J	-	1.1 J	1.3 J	-
Vinyl bromide (Bromoethene)	µg/m³	3.8	13	38	130		0.31 U	0.15 U	0.31 U	0.31 U	0.31 U	0.15 U	-	0.15 U	0.15 U	-
Vinyl chloride	µg/m³	28	440	280	4400	40	0.36 U	0.18 U	0.36 U	0.36 U	0.36 U	0.18 U	-	0.18 U	0.18 U	-
Xylenes (total)	µg/m³		440		4400		-	-	-	-	-	-	-	-	-	-
Fixed Gases																
Ethane	%						0.20 U	0.22 U	0.21 U	0.21 U	0.20 U	0.39 U	-	0.23 U	0.22 U	-
Ethene	%						0.20 U	0.22 U	0.21 U	0.21 U	0.20 U	0.39 U	-	0.23 U	0.22 U	-
Helium	%						-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.5	0.5	0.18 U	0.20 U	0.19 U	0.19 U	0.18 U	0.35 U	-	0.21 U	0.20 U	-
Methane, field, unfiltered	%	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-
Radon																
Radon-222	pCi/L						-	-	-	-	-	-	856 +/-43	-	-	260 +/-13

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe E*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 4610, Bldg B*	*Parcel 4610, Bldg E, Probe A*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-081112-GL-086*	*SSR-38443-081012-GL-017*	*SS-38443-081112-GL-088*	*SS-38443-081112-GL-090*	*SSR-38443-081012-GL-019*	*SS-38443-081112-GL-093*	*SS-38443-073112-GL-003*	*SS-38443-073112-GL-004*	*SS-38443-073112-GL-005*	*SS-38443-073112-GL-006*
Sample Date:		ELCR	HI	ELCR	HI		*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*
	Units	*a*	*b*	*c*	*d*	*e*										
Cumulative Risk																
Total HI	µg/m^3		1		1		0	-	0	0	-	0	0	0	0	0
Total Risk	µg/m^3	1E-5		1E-5			3E-07	-	1E-07	6E-07	-	6E-08	3E-07	1E-06	4E-07	2E-07
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m^3		22000		220000		4.0	-	12	8.5	-	14	24	35	13	5.6
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			0.42 U	-	0.42 U	0.42 U	-	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		0.29 U	-	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	77		770		630	0.11 U	-	0.11 U	0.11 U	-	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3		880		8800		0.13 U	-	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		0.73 UJ	-	0.73 UJ	0.73 UJ	-	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3		31		310		4.2	-	0.31 U	0.41 J	-	0.69 J	0.31 U	0.50 J	0.31 U	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39	2.0	390		0.34 U	-	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3		880		8800		0.42 U	-	0.42 U	0.42 U	-	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		0.19 U	-	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		0.24 U	-	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						0.22 U	-	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3						0.32 U	-	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		0.14 U	-	0.14 U	0.14 U	-	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		0.39 U	-	0.39 U	0.39 U	-	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		0.38 U	-	0.38 U	0.41 J	-	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		0.29 U	-	0.29 U	0.29 U	-	0.29 U	0.39 J	0.29 U	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3						0.18 U	-	0.18 U	3.7	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		1.7 J	-	2.3 J	2.3 J	-	2.6 J	1.6 J	2.9 J	1.5 J	2.4 J
2-Chlorotoluene	µg/m^3						0.33 U	-	0.33 U	0.33 U	-	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m^3		130		1300		0.24 U	-	0.24 U	0.29 J	-	0.33 J	0.32 J	0.32 J	0.24 U	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						0.35 U	-	0.35 U	0.35 U	-	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3						0.32 U	-	0.32 U	0.45 J	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (M	µg/m^3		13000		130000		0.39 J	-	0.18 U	0.36 J	-	0.45 J	0.18 U	0.28 J	0.18 U	0.18 U
Acetone	µg/m^3		140000		1400000		11 J	-	7.9 J	17	-	18	10 J	19 J	13 J	13 J
Allyl chloride	µg/m^3	20	4.4	200	44		0.15 U	-	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Benzene	µg/m^3	16	130	160	1300	40	0.18 U	-	0.18 U	0.51 J	-	0.19 J	0.18 U	0.20 J	0.21 J	0.18 U
Benzyl chloride	µg/m^3	2.5	4.4	25	44		0.40 U	-	0.40 U	0.40 U	-	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	3.3		33			0.29 U	-	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
Bromoform	µg/m^3	110		1,100			0.50 U	-	0.50 U	0.50 U	-	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		0.12 U	-	0.12 U	0.12 U	-	0.12 U	0.12 U	0.12 U	0.76	0.12 U
Butane	µg/m^3						0.54 J	-	0.73 J	0.51 J	-	0.50 J	0.15 UJ	1.2 J	0.15 UJ	7.7 J
Carbon disulfide	µg/m^3		3100		31000		0.18 J	-	0.097 U	0.11 J	-	0.19 J	0.72 J	0.34 J	1.6	0.097 U
Carbon tetrachloride	µg/m^3	20	440	200	4400		0.71 J	-	0.24 U	0.24 U	-	0.24 U	0.38 J	0.24 UJ	0.25 J	0.24 UJ
Chlorobenzene	µg/m^3		220		2200		0.23 U	-	0.23 U	7.1	-	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3		220000		2200000		12	-	10	1.5	-	4.6	1.1	0.71	0.70	0.78
Chloroethane	µg/m^3		44000		440000		0.092 U	-	0.092 U	0.10 J	-	0.13 J	0.092 U	0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	4000	0.19 U	-	0.19 U	0.19 U	-	0.19 U	0.19 U	2.6	0.27 J	0.47 J
Chloromethane (Methyl chloride)	µg/m^3		390		3900		0.39 J	-	0.33 U	0.91 J	-	0.63 J	0.33 U	0.50 J	0.64 J	0.66 J
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	1500	0.24 U	-	0.24 U	0.34 J	-	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		0.34 U	-	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m^3		26000		260000		0.19 J	-	0.17 J	0.25 J	-	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3						0.31 U	-	0.31 U	0.31 U	-	0.52 J	0.31 U	0.31 U	0.31 U	0.31 U
Dibromochloromethane	µg/m^3	4.5		45			0.36 U	-	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		16	-	6.3	2.5	-	2.7	0.34 UJ	0.34 UJ	0.34 UJ	2.6 J
Ethylbenzene	µg/m^3	49	4400	490	44000	13000	0.30 U	-	0.30 U	6.1	-	0.30 U	0.30 U	0.30 U	0.30 U	0.30 U
Hexachlorobutadiene	µg/m^3	5.6		56			0.83 UJ	-	0.83 U	0.83 U	-	0.83 UJ	0.83 U	0.83 U	0.83 U	0.83 U
Hexane	µg/m^3		3100		31000		0.45 J	-	0.46 J	0.70 J	-	0.38 J	0.11 U	0.51 J	0.24 J	0.57 J
Isopropyl alcohol	µg/m^3						0.60 J	-	0.11 U	0.37 J	-	0.27 J	0.68 J	3.9 J	0.47 J	2.2 J
Isopropyl benzene	µg/m^3		1800		18000		0.29 U	-	0.29 U	0.33 J	-	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m^3		440		4400	8000	0.94	-	0.73 J	18	-	0.52 U	0.52 U	0.67 J	0.52 U	0.53 J
Methyl methacrylate	µg/m^3		3100		31000		0.32 U	-	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		0.61 U	-	0.61 U	0.61 U	-	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m^3	12000	2600	120,000	26000		3.0	-	1.9	2.0	-	3.3	1.0 U	2.3 U	1.1 U	0.98 U
Naphthalene	µg/m^3	3.6	13	36	130	15.2	0.47 UJ	-	0.47 UJ	0.47 UJ	-	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ	0.47 UJ
N-Butylbenzene	µg/m^3						1.3 J	-	0.25 U	0.25 U	-	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
N-Decane	µg/m^3						7.0 J	-	0.39 J	0.33 UJ	-	0.49 J	0.33 U	2.1 J	0.33 U	0.36 J

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 2, Probe C*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe D*	*Parcel 3207, Bldg 2, Probe E*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3207, Bldg 2, Probe F*	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 4610, Bldg B*	*Parcel 4610, Bldg E, Probe A*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-081112-GL-086*	*SSR-38443-081012-GL-017*	*SS-38443-081112-GL-088*	*SS-38443-081112-GL-090*	*SSR-38443-081012-GL-019*	*SS-38443-081112-GL-093*	*SS-38443-073112-GL-003*	*SS-38443-073112-GL-004*	*SS-38443-073112-GL-005*	*SS-38443-073112-GL-006*
Sample Date:		ELCR	HI	ELCR	HI		*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*
	Units	*a*	*b*	*c*	*d*	*e*										
N-Dodecane	µg/m^3						0.89 J	-	1.1 J	0.54 U	-	0.54 U	0.54 UJ	0.54 UJ	0.54 UJ	0.54 UJ
N-Heptane	µg/m^3						0.19 U	-	0.31 J	5.2	-	0.19 J	0.19 U	2.4	0.19 U	0.19 U
Nonane	µg/m^3		880		8800		0.78 J	-	0.23 U	2.2 J	-	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
N-Propylbenzene	µg/m^3						0.28 U	-	0.28 U	0.40 J	-	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U
N-Undecane	µg/m^3						11	-	0.40 U	0.40 U	-	2.1 J	0.40 U	1.4 J	0.40 U	0.40 U
Octane	µg/m^3						0.36 J	-	0.24 J	14	-	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
o-Xylene	µg/m^3		440		4400	8000	0.48 J	-	0.33 J	4.7	-	0.26 U	0.26 U	0.29 J	0.26 U	0.26 U
Pentane	µg/m^3		4400		44000		0.40 J	-	0.61 J	0.52 J	-	0.55 J	0.18 U	0.18 U	0.18 U	2.7 J
Styrene	µg/m^3		4400		44000		0.25 U	-	0.25 U	0.25 U	-	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
tert-Butyl alcohol	µg/m^3						0.12 U	-	0.12 U	0.97 J	-	0.26 J	0.43 J	3.5 J	0.33 J	2.8 J
tert-Butylbenzene	µg/m^3						0.36 U	-	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	1700	80	-	57	97	-	14	110	320[b]	140	53
Tetrahydrofuran	µg/m^3						0.19 U	-	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		22000		220000		1.2	-	0.98	9.7	-	1.6	0.30 J	0.96	0.47 J	2.2
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		0.22 U	-	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	100	3.4	-	0.19 U	6.4	-	0.56 J	0.19 U	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		4.8	-	8.6	16	-	12	18	58	4.3	13
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.63 J	-	0.68 J	0.87 J	-	0.66 J	3.5	4.6	0.76 J	290
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	130		0.15 U	-	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	40	0.18 U	-	0.18 U	0.18 U	-	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-
Fixed Gases																
Ethane	%						0.21 U	-	0.27 U	0.22 U	-	0.36 U	0.24 U	0.22 U	0.23 U	0.24 U
Ethene	%						0.21 U	-	0.27 U	0.22 U	-	0.36 U	0.24 U	0.22 U	0.23 U	0.24 U
Helium	%						-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.5	0.5	0.19 U	-	0.24 U	0.20 U	-	0.33 U	0.22 U	0.20 U	0.21 U	0.21 U
Methane, field, unfiltered	%	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.5	0.5	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon																
Radon-222	pCi/L						-	839 +/-42	-	-	649 +/-32	-	-	-	-	-

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 4610, Bldg E, Probe B*	*Parcel 5054, Bldg 1 Probe A*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe B*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe D*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-073112-GL-007*	*SS-38443-080612-GL-055*	*SS-38443-080612-GL-048*	*SS-38443-080612-GL-052*	*SSR-38443-080612-GL-007*	*SS-38443-080712-GL-060*	*SS-38443-080712-GL-062*	*SSR-38443-080612-GL-009*	*SS-38443-080712-GL-063*	*SS-38443-080712-GL-065*
Sample Date:		ELCR	HI	ELCR	HI		*7/31/2012*	*8/6/2012*	*8/6/2012*	*8/6/2012*	*8/6/2012*	*8/7/2012*	*8/7/2012*	*8/6/2012*	*8/7/2012*	*8/7/2012*
	Units	*a*	*b*	*c*	*d*	*e*										
Cumulative Risk																
Total HI	µg/m³		1		1		0	171[d]	11[d]	43[d]	-	109[d]	7[d]	-	2[d]	57[d]
Total Risk	µg/m³	1E-5		1E-5			1E-06	5E-04[c]	3E-05[c]	1E-04[c]	-	3E-04[c]	2E-05[c]	-	1E-05	2E-04[c]
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m³		22000		220000		0.72 J	28 J	65	59	-	7.3 J	4.4 J	-	3.2 J	13 J
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			0.42 U	33 U	4.2 U	13 U	-	3.4 U	4.2 U	-	2.1 U	16 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		0.29 U	23 U	2.9 U	8.9 U	-	2.4 U	2.9 U	-	1.5 U	12 U
1,1-Dichloroethane	µg/m³	77		770		630	0.11 U	8.3 U	1.9 J	34	-	1.0 J	1.1 U	-	0.91 J	4.1 U
1,1-Dichloroethene	µg/m³		880		8800		0.13 U	10 U	1.3 U	3.8 U	-	1.0 U	1.3 U	-	0.63 U	5.0 U
1,2,4-Trichlorobenzene	µg/m³		8.8		88		0.73 UJ	58 U	7.3 UJ	22 U	-	5.8 UJ	7.3 U	-	3.6 U	29 U
1,2,4-Trimethylbenzene	µg/m³		31		310		31	25 U	3.1 U	9.4 U	-	3.9 J	8.4 J	-	1.5 U	12 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.20	39	2.0	390		0.34 U	27 U	3.4 U	10 U	-	2.7 U	3.4 U	-	1.7 U	13 U
1,2-Dichlorobenzene	µg/m³		880		8800		0.42 U	33 U	4.2 U	13 U	-	3.4 U	4.2 U	-	2.1 U	17 U
1,2-Dichloroethane	µg/m³	4.7	31	47	310		0.19 U	15 U	1.9 U	5.8 U	-	1.5 U	1.9 U	-	0.95 U	7.5 U
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		0.24 U	19 U	2.4 U	7.3 U	-	1.9 U	2.4 U	-	1.2 U	9.4 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	18 U	5.4 J	6.8 U	-	1.8 U	2.2 U	-	1.1 U	8.8 U
1,3,5-Trimethylbenzene	µg/m³						16	25 U	3.2 U	9.7 U	-	2.6 U	3.2 U	-	1.6 U	13 U
1,3-Butadiene	µg/m³	4.1	8.8	41	88		0.14 U	11 U	1.4 U	4.3 U	-	1.1 U	1.4 U	-	0.71 U	5.6 U
1,3-Dichlorobenzene[a]	µg/m³	11	3500	110	35000		0.39 U	31 U	3.9 U	12 U	-	3.1 U	3.9 U	-	2.0 U	15 U
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		0.38 U	30 U	3.8 U	12 U	-	3.1 U	3.8 U	-	1.9 U	15 U
1,4-Dioxane	µg/m³	16	13000	160	130000		0.29 U	23 U	2.9 U	8.7 U	-	2.3 U	2.9 U	-	1.4 U	11 U
2,2,4-Trimethylpentane	µg/m³						0.18 U	14 U	1.8 U	5.5 U	-	2.8 J	1.8 U	-	0.91 U	7.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		1.2 J	47 U	5.9 U	18 U	-	4.7 U	5.9 U	-	2.9 U	23 U
2-Chlorotoluene	µg/m³						0.33 U	26 U	3.3 U	9.9 U	-	2.6 U	3.3 U	-	1.6 U	13 U
2-Hexanone	µg/m³		130		1300		0.35 J	19 U	2.4 U	7.2 U	-	1.9 U	2.4 U	-	1.2 U	9.3 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.38 J	28 U	3.5 U	11 U	-	2.8 U	3.5 U	-	1.8 U	14 U
4-Ethyl toluene	µg/m³						2.0	26 U	3.2 U	9.8 U	-	2.6 U	3.2 U	-	1.6 U	13 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (M	µg/m³		13000		130000		0.28 J	15 U	1.8 U	5.6 U	-	1.5 U	1.8 U	-	0.92 U	7.2 U
Acetone	µg/m³		140000		1400000		7.8 J	260 UJ	33 U	100 UJ	-	27 J	33 UJ	-	17 U	130 UJ
Allyl chloride	µg/m³	20	4.4	200	44		0.15 U	12 U	1.5 U	4.5 U	-	1.2 U	1.5 U	-	0.75 U	5.9 U
Benzene	µg/m³	16	130	160	1300	40	0.24 J	14 U	1.8 U	5.4 U	-	3.5 J	2.4 J	-	0.89 U	7.0 U
Benzyl chloride	µg/m³	2.5	4.4	25	44		0.40 U	32 U	4.0 U	12 U	-	3.2 U	4.0 U	-	2.0 U	16 U
Bromodichloromethane	µg/m³	3.3		33			0.29 U	23 U	2.9 U	8.9 U	-	2.4 U	2.9 U	-	1.5 U	12 U
Bromoform	µg/m³	110		1,100			0.50 U	39 U	5.0 U	15 U	-	4.0 U	5.0 U	-	2.5 U	19 U
Bromomethane (Methyl bromide)	µg/m³		22		220		0.12 U	9.8 U	1.2 U	3.8 U	-	0.99 U	1.2 U	-	0.62 U	4.9 U
Butane	µg/m³						0.84 J	12 U	1.5 U	11 J	-	36	1.5 U	-	0.77 J	6.0 U
Carbon disulfide	µg/m³		3100		31000		0.17 J	7.6 U	0.97 U	3.5 J	-	0.77 U	0.97 U	-	0.48 U	3.8 U
Carbon tetrachloride	µg/m³	20	440	200	4400		0.54 J	19 U	2.4 U	7.2 U	-	4.1 J	2.4 U	-	1.2 U	9.4 U
Chlorobenzene	µg/m³		220		2200		0.23 U	18 U	2.3 U	6.8 U	-	1.8 U	2.3 U	-	1.1 U	8.9 U
Chlorodifluoromethane	µg/m³		220000		2200000		2.3	10 U	12	4.0 U	-	1.0 U	1.3 U	-	0.65 U	5.1 U
Chloroethane	µg/m³		44000		440000		0.092 U	7.3 U	0.92 U	2.8 U	-	0.77 J	0.92 U	-	0.46 U	3.6 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	4000	0.19 U	24 J	2.3 J	28 J	-	120[c]	11	-	16	36 J
Chloromethane (Methyl chloride)	µg/m³		390		3900		0.49 J	26 U	3.3 U	10 U	-	2.6 U	3.3 U	-	1.7 U	13 U
cis-1,2-Dichloroethene[b]	µg/m³		260		2600	1500	0.24 U	120	4.5 J	32	-	190	5.7 J	-	20	78
cis-1,3-Dichloropropene[c]	µg/m³	31	88	310	880		0.34 U	27 U	3.4 U	10 U	-	2.7 U	3.4 U	-	1.7 U	13 U
Cyclohexane	µg/m³		26000		260000		0.14 U	11 U	1.4 U	4.2 U	-	1.2 J	1.4 U	-	0.93 J	5.4 U
Cymene (p-Isopropyltoluene)	µg/m³						1.1	25 U	3.1 U	9.5 U	-	2.5 U	3.1 U	-	1.6 U	12 U
Dibromochloromethane	µg/m³	4.5		45			0.36 U	28 U	3.6 U	11 U	-	2.9 U	3.6 U	-	1.8 U	14 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		3.0	27 U	4.0 J	10 U	-	4.7 J	10	-	29	13 U
Ethylbenzene	µg/m³	49	4400	490	44000	13000	0.99	23 U	3.0 U	8.9 U	-	2.4 U	4.4 J	-	1.5 U	12 U
Hexachlorobutadiene	µg/m³	5.6		56			0.83 UJ	66 U	8.3 UJ	25 U	-	6.7 UJ	8.3 U	-	4.2 U	33 U
Hexane	µg/m³		3100		31000		0.30 J	8.9 U	1.1 U	3.4 U	-	5.4 J	1.6 J	-	0.70 J	4.4 U
Isopropyl alcohol	µg/m³						95	8.6 U	1.1 U	3.3 U	-	41	1.2 J	-	1.9 J	4.3 J
Isopropyl benzene	µg/m³		1800		18000		0.29 U	23 U	2.9 U	8.9 U	-	2.4 U	2.9 U	-	1.5 U	12 U
m&p-Xylenes	µg/m³		440		4400	8000	5.6	41 U	5.2 U	16 U	-	6.0 J	18	-	2.6 U	20 U
Methyl methacrylate	µg/m³		3100		31000		0.32 U	26 U	3.2 U	9.8 U	-	2.6 U	3.2 U	-	1.6 U	13 U
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		0.61 U	49 U	6.1 U	19 U	-	4.9 U	6.1 U	-	3.1 U	24 U
Methylene chloride	µg/m³	12000	2600	120,000	26000		2.2 U	41 U	5.7 J	16 U	-	5.9 J	5.2 U	-	4.8 U	26 U
Naphthalene	µg/m³	3.6	13	36	130	15.2	3.5	37 U	4.7 UJ	20 J[e]	-	3.8 UJ	4.7 U	-	2.4 U	19 U
N-Butylbenzene	µg/m³						4.0	20 U	2.5 U	7.6 U	-	2.0 U	2.5 U	-	1.3 U	9.9 U
N-Decane	µg/m³						5.2 J	26 U	3.3 UJ	9.9 U	-	7.0 J	15 J	-	2.4 J	13 U

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 4610, Bldg E, Probe B*	*Parcel 5054, Bldg 1 Probe A*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe A*	*Parcel 5171, Bldg 1, Probe B*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe C*	*Parcel 5171, Bldg 1, Probe D*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-073112-GL-007*	*SS-38443-080612-GL-055*	*SS-38443-080612-GL-048*	*SS-38443-080612-GL-052*	*SSR-38443-080612-GL-007*	*SS-38443-080712-GL-060*	*SS-38443-080712-GL-062*	*SSR-38443-080612-GL-009*	*SS-38443-080712-GL-063*	*SS-38443-080712-GL-065*
Sample Date:							*7/31/2012*	*8/6/2012*	*8/6/2012*	*8/6/2012*	*8/6/2012*	*8/7/2012*	*8/7/2012*	*8/6/2012*	*8/7/2012*	*8/7/2012*
		ELCR	HI	ELCR	HI											
	Units	*a*	*b*	*c*	*d*	*e*										
N-Dodecane	µg/m^3						3.6 J	43 U	5.4 U	16 U	-	4.3 U	5.4 U	-	2.7 U	21 U
N-Heptane	µg/m^3						0.19 U	15 U	1.9 U	5.8 U	-	1.5 U	2.2 J	-	0.96 U	7.6 U
Nonane	µg/m^3		880		8800		2.0 J	18 U	2.3 U	6.8 U	-	2.3 J	6.6 J	-	1.1 U	8.9 U
N-Propylbenzene	µg/m^3						1.1 J	22 U	2.8 U	8.3 U	-	2.2 U	2.8 U	-	1.4 U	11 U
N-Undecane	µg/m^3						1.9 J	31 U	4.0 U	12 U	-	6.2 J	8.5 J	-	2.0 U	16 U
Octane	µg/m^3						0.31 J	13 U	1.7 U	5.1 U	-	1.3 U	1.7 U	-	0.84 U	6.6 U
o-Xylene	µg/m^3		440		4400	8000	3.0	21 U	2.6 U	8.0 U	-	3.0 J	7.6 J	-	1.3 U	10 U
Pentane	µg/m^3		4400		44000		4.5	14 U	1.8 U	5.6 J	-	28	1.8 U	-	0.89 U	7.0 U
Styrene	µg/m^3		4400		44000		0.66 J	20 U	2.5 U	7.5 U	-	2.0 U	2.5 U	-	1.2 U	9.7 U
tert-Butyl alcohol	µg/m^3						0.40 J	9.1 U	1.2 U	3.5 U	-	0.92 U	1.2 U	-	3.6 J	4.5 U
tert-Butylbenzene	µg/m^3						0.36 U	29 U	3.6 U	11 U	-	2.9 U	3.6 U	-	1.8 U	14 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	1700	1.2 J	480	370	51	-	100	1500	-	530	190
Tetrahydrofuran	µg/m^3						0.19 U	15 U	1.9 U	5.6 U	-	1.5 U	1.9 U	-	0.93 U	7.3 U
Toluene	µg/m^3		22000		220000		2.5	16 U	2.0 U	6.2 U	-	5.3 J	18	-	1.1 J	8.0 U
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	16 U	2.0 U	6.0 U	-	75	5.4 J	-	1.7 J	53
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		0.22 U	17 U	2.2 U	6.6 U	-	1.7 U	2.2 U	-	1.1 U	8.6 U
Trichloroethene	µg/m^3	30	8.8	300	88	100	0.19 U	**15000[cde]**	**930[cde]**	**3800[cde]**	-	**9600[cde]**	**510[cde]**	-	**190[de]**	**5000[cde]**
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		5.6	11 U	1.6 J	4.7 J	-	2.0 J	1.8 J	-	0.90 J	5.3 U
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		20	19 U	2.4 U	7.2 U	-	1.9 U	2.4 U	-	1.2 U	9.3 U
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	130		0.15 U	12 U	1.5 U	4.6 U	-	1.2 U	1.5 U	-	0.77 U	6.0 U
Vinyl chloride	µg/m^3	28	440	280	4400	40	0.18 U	14 U	1.8 U	5.5 U	-	1.5 U	1.8 U	-	0.91 U	7.1 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-
Fixed Gases																
Ethane	%						0.21 U	0.40 U	0.22 U	0.33 U	-	0.24 U	0.22 U	-	0.22 U	0.22 U
Ethene	%						0.21 U	0.40 U	0.22 U	0.33 U	-	0.24 U	0.22 U	-	0.22 U	0.22 U
Helium	%						-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.5	0.5	0.19 U	0.36 U	0.19 U	0.30 U	-	0.21 U	0.19 U	-	0.20 U	0.19 U
Methane, field, unfiltered	%	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0
Radon																
Radon-222	pCi/L						-	-	-	-	541 +/-27	-	-	536 +/-27	-	-

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5172 / 1 / B Overstreet*	*Parcel 5172 / 1 / B S&J*	*Parcel 5172 / 1 / C S&J*	*Parcel 5172 / 1 / D S&J*	*Parcel 5172, Bldg 2, Probe A*	*Parcel 5172, Bldg 2, Probe A*	*Parcel 5172, Bldg 2, Probe B*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SSR-38443-080612-GL-011*	*SS-38443-080712-GL-066*	-	-	-	-	-	-	*SS-38443-080212-GL-030*	*SS-38443-080212-GL-031*	*SS-38443-080212-GL-033*
Sample Date:		ELCR	HI	ELCR	HI		*8/6/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/2/2012*	*8/2/2012*
																Duplicate	
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m^3		1		1		-	0	-	-	-	-	-	-	6[d]	-	1
Total Risk	µg/m^3	1E-5		1E-5			-	8E-07	-	-	-	-	-	-	7E-04[c]	-	1E-05
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m^3		22000		220000		-	0.16 U	-	-	-	-	-	-	33 U	-	0.67 J
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			-	0.42 U	-	-	-	-	-	-	85 U	-	0.84 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		-	0.29 U	-	-	-	-	-	-	60 U	-	0.59 U
1,1-Dichloroethane	µg/m^3	77		770		630	-	0.11 U	-	-	-	-	-	-	16000[ce]	-	510
1,1-Dichloroethene	µg/m^3		880		8800		-	0.13 U	-	-	-	-	-	-	98 J	-	0.49 J
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		-	0.73 U	-	-	-	-	-	-	150 UJ	-	1.5 U
1,2,4-Trimethylbenzene	µg/m^3		31		310		-	0.99	-	-	-	-	-	-	63 U	-	0.62 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39	2.0	390		-	0.34 U	-	-	-	-	-	-	68 U	-	0.68 U
1,2-Dichlorobenzene	µg/m^3		880		8800		-	0.42 U	-	-	-	-	-	-	85 U	-	0.84 U
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		-	0.19 U	-	-	-	-	-	-	38 U	-	0.38 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		-	0.24 U	-	-	-	-	-	-	49 U	-	0.48 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						-	0.22 U	-	-	-	-	-	-	45 U	-	4.3
1,3,5-Trimethylbenzene	µg/m^3						-	0.32 U	-	-	-	-	-	-	65 U	-	0.64 U
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		-	0.14 U	-	-	-	-	-	-	29 U	-	0.28 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		-	0.39 U	-	-	-	-	-	-	79 U	-	0.78 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		-	0.38 U	-	-	-	-	-	-	78 U	-	0.77 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		-	0.29 U	-	-	-	-	-	-	58 U	-	0.58 U
2,2,4-Trimethylpentane	µg/m^3						-	0.29 J	-	-	-	-	-	-	460 J	-	0.36 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		-	3.8	-	-	-	-	-	-	120 U	-	2.0 J
2-Chlorotoluene	µg/m^3						-	0.33 U	-	-	-	-	-	-	66 U	-	0.65 U
2-Hexanone	µg/m^3		130		1300		-	0.26 J	-	-	-	-	-	-	48 U	-	0.48 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						-	0.35 U	-	-	-	-	-	-	71 U	-	0.70 U
4-Ethyl toluene	µg/m^3						-	0.35 J	-	-	-	-	-	-	66 U	-	0.65 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (M	µg/m^3		13000		130000		-	0.56 J	-	-	-	-	-	-	37 U	-	0.37 U
Acetone	µg/m^3		140000		1400000		-	17 J	-	-	-	-	-	-	670 U	-	10 J
Allyl chloride	µg/m^3	20	4.4	200	44		-	0.15 U	-	-	-	-	-	-	30 U	-	0.30 U
Benzene	µg/m^3	16	130	160	1300	40	-	0.73	-	-	-	-	-	-	160[e]	-	0.36 U
Benzyl chloride	µg/m^3	2.5	4.4	25	44		-	0.40 U	-	-	-	-	-	-	82 U	-	0.81 U
Bromodichloromethane	µg/m^3	3.3		33			-	0.29 U	-	-	-	-	-	-	60 U	-	1.4 J
Bromoform	µg/m^3	110		1,100			-	0.50 U	-	-	-	-	-	-	100 U	-	0.99 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		-	0.12 U	-	-	-	-	-	-	25 U	-	0.25 U
Butane	µg/m^3						-	6.5	-	-	-	-	-	-	8800	-	1.9 J
Carbon disulfide	µg/m^3		3100		31000		-	0.55 J	-	-	-	-	-	-	140 J	-	0.35 J
Carbon tetrachloride	µg/m^3	20	440	200	4400		-	0.48 J	-	-	-	-	-	-	48 U	-	0.48 U
Chlorobenzene	µg/m^3		220		2200		-	0.23 U	-	-	-	-	-	-	46 U	-	0.45 U
Chlorodifluoromethane	µg/m^3		220000		2200000		-	1.8	-	-	-	-	-	-	81 J	-	6.2
Chloroethane	µg/m^3		44000		440000		-	0.092 U	-	-	-	-	-	-	19 U	-	1.3
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	4000	-	0.67 J	-	-	-	-	-	-	37 U	-	15
Chloromethane (Methyl chloride)	µg/m^3		390		3900		-	0.33 J	-	-	-	-	-	-	67 U	-	0.66 U
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	1500	-	0.24 U	-	-	-	-	-	-	440	-	8.8
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		-	0.34 U	-	-	-	-	-	-	68 U	-	0.67 U
Cyclohexane	µg/m^3		26000		260000		-	0.56 J	-	-	-	-	-	-	530	-	0.28 U
Cymene (p-Isopropyltoluene)	µg/m^3						-	0.31 U	-	-	-	-	-	-	63 U	-	0.63 U
Dibromochloromethane	µg/m^3	4.5		45			-	0.36 U	-	-	-	-	-	-	72 U	-	0.72 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		-	2.5	-	-	-	-	-	-	68 U	-	3.8
Ethylbenzene	µg/m^3	49	4400	490	44000	13000	-	3.4	-	-	-	-	-	-	60 U	-	0.59 U
Hexachlorobutadiene	µg/m^3	5.6		56			-	0.83 U	-	-	-	-	-	-	170 UJ	-	1.7 U
Hexane	µg/m^3		3100		31000		-	1.8	-	-	-	-	-	-	900	-	0.51 J
Isopropyl alcohol	µg/m^3						-	1.7 J	-	-	-	-	-	-	22 U	-	1.1 J
Isopropyl benzene	µg/m^3		1800		18000		-	0.30 J	-	-	-	-	-	-	60 U	-	0.59 U
m&p-Xylenes	µg/m^3		440		4400	8000	-	13	-	-	-	-	-	-	110 U	-	1.4 J
Methyl methacrylate	µg/m^3		3100		31000		-	0.32 U	-	-	-	-	-	-	65 U	-	0.65 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		-	0.61 U	-	-	-	-	-	-	120 U	-	1.2 U
Methylene chloride	µg/m^3	12000	2600	120,000	26000		-	0.81 J	-	-	-	-	-	-	75 U	-	2.0 U
Naphthalene	µg/m^3	3.6	13	36	130	15.2	-	0.47 U	-	-	-	-	-	-	95 UJ	-	0.94 U
N-Butylbenzene	µg/m^3						-	0.25 U	-	-	-	-	-	-	51 U	-	0.51 U
N-Decane	µg/m^3						-	7.7	-	-	-	-	-	-	66 U	-	0.65 U

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 1, Probe F*	*Parcel 5171, Bldg 2, Probe A*	*Parcel 5171, Bldg 2, Probe B*	*Parcel 5172 / 1 / B Overstreet*	*Parcel 5172 / 1 / B S&J*	*Parcel 5172 / 1 / C S&J*	*Parcel 5172 / 1 / D S&J*	*Parcel 5172, Bldg 2, Probe A*	*Parcel 5172, Bldg 2, Probe A*	*Parcel 5172, Bldg 2, Probe B*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SSR-38443-080612-GL-011*	*SS-38443-080712-GL-066*	-	-	-	-	-	-	*SS-38443-080212-GL-030*	*SS-38443-080212-GL-031*	*SS-38443-080212-GL-033*
Sample Date:		ELCR	HI	ELCR	HI		*8/6/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/2/2012*	*8/2/2012*
																Duplicate	
	Units	*a*	*b*	*c*	*d*	*e*											
N-Dodecane	µg/m^3						-	1.7 J	-	-	-	-	-	-	110 UJ	-	1.1 U
N-Heptane	µg/m^3						-	0.37 J	-	-	-	-	-	-	130 J	-	0.39 U
Nonane	µg/m^3		880		8800		-	4.6	-	-	-	-	-	-	46 U	-	0.45 U
N-Propylbenzene	µg/m^3						-	0.28 U	-	-	-	-	-	-	56 U	-	0.55 U
N-Undecane	µg/m^3						-	2.7 J	-	-	-	-	-	-	80 U	-	0.79 U
Octane	µg/m^3						-	0.52 J	-	-	-	-	-	-	34 U	-	0.34 U
o-Xylene	µg/m^3		440		4400	8000	-	3.6	-	-	-	-	-	-	54 U	-	0.66 J
Pentane	µg/m^3		4400		44000		-	5.6	-	-	-	-	-	-	3700	-	0.35 U
Styrene	µg/m^3		4400		44000		-	0.31 J	-	-	-	-	-	-	50 U	-	0.49 U
tert-Butyl alcohol	µg/m^3						-	0.57 J	-	-	-	-	-	-	23 U	-	0.58 J
tert-Butylbenzene	µg/m^3						-	0.36 U	-	-	-	-	-	-	73 U	-	0.72 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	1700	-	3.4	-	-	-	-	-	-	55 U	-	7.0
Tetrahydrofuran	µg/m^3						-	0.19 U	-	-	-	-	-	-	38 U	-	0.37 U
Toluene	µg/m^3		22000		220000		-	3.9	-	-	-	-	-	-	42 J	-	1.5 J
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	0.35 J	-	-	-	-	-	-	140 J	-	0.40 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		-	0.22 U	-	-	-	-	-	-	44 U	-	0.44 U
Trichloroethene	µg/m^3	30	8.8	300	88	100	-	16	-	-	-	-	-	-	200 J[de]	-	84
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	1.5	-	-	-	-	-	-	27 U	-	1.7 J
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	0.56 J	-	-	-	-	-	-	48 U	-	5.2
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	130		-	0.15 U	-	-	-	-	-	-	31 U	-	0.31 U
Vinyl chloride	µg/m^3	28	440	280	4400	40	-	0.18 U	-	-	-	-	-	-	14000[cde]	-	0.36 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						-	0.22 U	-	-	-	-	-	-	0.21 U	0.21 U	0.23 U
Ethene	%						-	0.22 U	-	-	-	-	-	-	0.21 U	0.21 U	0.23 U
Helium	%						-	-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.5	0.5	-	0.19 U	-	-	-	-	-	-	0.19 U	0.19 U	0.20 U
Methane, field, unfiltered	%	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.5	0.5	-	0.0 Dup 0.0	0	0	0	0	0	0	0.3 Dup 0.2	0.2 Dup 0.3	0.0 Dup 0.0
Radon																	
Radon-222	pCi/L						96 +/-5	-	-	-	-	-	-	-	-	-	-

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5173, Bldg 1, Probe A*	*Parcel 5173, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe B*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-080212-GL-035*	*SSR-38443-080712-GL-013*	*-*	*-*	*SS-38443-080212-GL-038*	*SSR-38443-080212-GL-001*	*SS-38443-080312-GL-038*	*SS-38443-080312-GL-040*	*SS-38443-080312-GL-041*
Sample Date:							*8/2/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/2/2012*	*8/3/2012*	*8/3/2012*	*8/3/2012*
		ELCR	HI	ELCR	HI										*Duplicate*
	Units	*a*	*b*	*c*	*d*	*e*									
Cumulative Risk															
Total HI	µg/m^3		1		1		0	-	-	-	0	-	-	18[d]	-
Total Risk	µg/m^3	1E-5		1E-5			3E-07	-	-	-	1E-06	-	-	5E-05[c]	-
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m^3		22000		220000		1.9	-	-	-	7.1	-	-	180	180
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			0.42 U	-	-	-	0.42 U	-	-	4.2 U	4.2 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		0.29 U	-	-	-	0.29 U	-	-	2.9 U	2.9 U
1,1-Dichloroethane	µg/m^3	77		770		630	0.11 U	-	-	-	0.11 U	-	-	1.1 U	1.1 U
1,1-Dichloroethene	µg/m^3		880		8800		0.13 U	-	-	-	0.13 U	-	-	1.3 U	1.3 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		0.73 UJ	-	-	-	0.73 UJ	-	-	7.3 UJ	7.3 UJ
1,2,4-Trimethylbenzene	µg/m^3		31		310		0.31 U	-	-	-	0.99	-	-	3.1 U	3.1 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39	2.0	390		0.34 U	-	-	-	0.34 U	-	-	3.4 U	3.4 U
1,2-Dichlorobenzene	µg/m^3		880		8800		0.42 U	-	-	-	0.42 U	-	-	4.2 U	4.2 U
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		0.19 U	-	-	-	0.19 U	-	-	1.9 U	1.9 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		0.24 U	-	-	-	0.24 U	-	-	2.4 U	2.4 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						0.22 U	-	-	-	2.1	-	-	2.2 U	2.2 U
1,3,5-Trimethylbenzene	µg/m^3						0.32 U	-	-	-	0.32 U	-	-	3.2 U	3.2 U
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		0.14 U	-	-	-	0.14 U	-	-	1.4 U	1.4 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		0.39 U	-	-	-	0.39 U	-	-	3.9 U	3.9 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		0.38 U	-	-	-	0.38 U	-	-	3.8 U	3.8 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		0.29 U	-	-	-	0.29 U	-	-	2.9 U	2.9 U
2,2,4-Trimethylpentane	µg/m^3						0.18 U	-	-	-	0.23 J	-	-	1.8 U	1.8 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		1.1 J	-	-	-	5.1	-	-	5.9 U	5.9 U
2-Chlorotoluene	µg/m^3						0.33 U	-	-	-	0.33 U	-	-	3.3 U	3.3 U
2-Hexanone	µg/m^3		130		1300		0.24 U	-	-	-	0.24 U	-	-	2.4 U	2.4 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						0.35 U	-	-	-	0.35 U	-	-	3.5 U	3.5 U
4-Ethyl toluene	µg/m^3						0.32 U	-	-	-	0.32 U	-	-	3.2 U	3.2 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (M	µg/m^3		13000		130000		0.18 U	-	-	-	0.18 U	-	-	1.8 U	1.8 U
Acetone	µg/m^3		140000		1400000		6.8 J	-	-	-	24	-	-	38 J	33 U
Allyl chloride	µg/m^3	20	4.4	200	44		0.15 U	-	-	-	0.15 U	-	-	1.5 U	1.5 U
Benzene	µg/m^3	16	130	160	1300	40	0.18 U	-	-	-	0.24 J	-	-	1.8 U	1.8 U
Benzyl chloride	µg/m^3	2.5	4.4	25	44		0.40 U	-	-	-	0.40 U	-	-	4.0 U	4.0 U
Bromodichloromethane	µg/m^3	3.3		33			0.29 U	-	-	-	0.29 U	-	-	2.9 U	2.9 U
Bromoform	µg/m^3	110		1,100			0.50 U	-	-	-	0.50 U	-	-	5.0 U	5.0 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		0.12 U	-	-	-	0.12 U	-	-	1.2 U	1.2 U
Butane	µg/m^3						0.31 J	-	-	-	0.15 U	-	-	1.5 U	1.5 U
Carbon disulfide	µg/m^3		3100		31000		0.18 J	-	-	-	0.15 J	-	-	0.97 U	0.97 U
Carbon tetrachloride	µg/m^3	20	440	200	4400		0.47 J	-	-	-	0.24 U	-	-	2.4 U	2.4 U
Chlorobenzene	µg/m^3		220		2200		0.23 U	-	-	-	0.23 U	-	-	2.3 U	2.3 U
Chlorodifluoromethane	µg/m^3		220000		2200000		1.4	-	-	-	1.1	-	-	1.3 U	1.3 U
Chloroethane	µg/m^3		44000		440000		0.21 J	-	-	-	0.092 U	-	-	0.92 U	0.92 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	4000	0.47 J	-	-	-	0.24 J	-	-	3.0 J	2.7 J
Chloromethane (Methyl chloride)	µg/m^3		390		3900		1.3	-	-	-	0.42 J	-	-	3.3 U	3.3 U
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	1500	0.24 U	-	-	-	0.24 U	-	-	2.4 U	2.4 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		0.34 U	-	-	-	0.34 U	-	-	3.4 U	3.4 U
Cyclohexane	µg/m^3		26000		260000		0.14 U	-	-	-	0.73 J	-	-	1.4 U	1.4 U
Cymene (p-Isopropyltoluene)	µg/m^3						0.31 U	-	-	-	0.31 U	-	-	3.1 U	3.1 U
Dibromochloromethane	µg/m^3	4.5		45			0.36 U	-	-	-	0.36 U	-	-	3.6 U	3.6 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		2.4	-	-	-	21	-	-	21	21
Ethylbenzene	µg/m^3	49	4400	490	44000	13000	0.30 U	-	-	-	0.86	-	-	3.0 U	3.0 U
Hexachlorobutadiene	µg/m^3	5.6		56			0.83 UJ	-	-	-	0.83 UJ	-	-	8.3 UJ	8.3 UJ
Hexane	µg/m^3		3100		31000		0.17 J	-	-	-	1.9	-	-	1.1 U	1.1 U
Isopropyl alcohol	µg/m^3						0.28 J	-	-	-	0.11 U	-	-	1.1 U	1.1 U
Isopropyl benzene	µg/m^3		1800		18000		0.29 U	-	-	-	0.29 U	-	-	2.9 U	2.9 U
m&p-Xylenes	µg/m^3		440		4400	8000	0.52 U	-	-	-	3.2	-	-	5.2 U	5.2 U
Methyl methacrylate	µg/m^3		3100		31000		0.32 U	-	-	-	0.32 U	-	-	3.2 U	3.2 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		0.61 U	-	-	-	0.61 U	-	-	6.1 U	6.1 U
Methylene chloride	µg/m^3	12000	2600	120,000	26000		0.81 U	-	-	-	1.5 U	-	-	4.3 U	5.1 U
Naphthalene	µg/m^3	3.6	13	36	130	15.2	0.47 UJ	-	-	-	0.47 UJ	-	-	4.7 UJ	4.7 UJ
N-Butylbenzene	µg/m^3						0.25 U	-	-	-	0.25 U	-	-	2.5 U	2.5 U
N-Decane	µg/m^3						0.33 U	-	-	-	1.6 J	-	-	3.3 U	3.3 U

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172, Bldg 2, Probe C*	*Parcel 5172, Bldg 3, Probe A*	*Parcel 5173, Bldg 1, Probe A*	*Parcel 5173, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe A*	*Parcel 5174, Bldg 1, Probe B*	*Parcel 5174, Bldg 1, Probe B*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-080212-GL-035*	*SSR-38443-080712-GL-013*	*-*	*-*	*SS-38443-080212-GL-038*	*SSR-38443-080212-GL-001*	*SS-38443-080312-GL-038*	*SS-38443-080312-GL-040*	*SS-38443-080312-GL-041*
Sample Date:							*8/2/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/2/2012*	*8/3/2012*	*8/3/2012*	*8/3/2012*
		ELCR	HI	ELCR	HI										*Duplicate*
	Units	*a*	*b*	*c*	*d*	*e*									
N-Dodecane	µg/m^3						0.54 UJ	-	-	-	0.54 UJ	-	-	5.4 UJ	5.4 UJ
N-Heptane	µg/m^3						0.19 U	-	-	-	1.5 J	-	-	1.9 U	1.9 U
Nonane	µg/m^3		880		8800		0.23 U	-	-	-	0.95 J	-	-	2.3 U	2.3 U
N-Propylbenzene	µg/m^3						0.28 U	-	-	-	0.28 U	-	-	2.8 U	2.8 U
N-Undecane	µg/m^3						0.40 U	-	-	-	0.63 J	-	-	4.0 U	4.0 U
Octane	µg/m^3						0.17 U	-	-	-	0.44 J	-	-	1.7 U	1.7 U
o-Xylene	µg/m^3		440		4400	8000	0.26 U	-	-	-	0.97	-	-	2.6 U	2.6 U
Pentane	µg/m^3		4400		44000		0.32 J	-	-	-	7.6	-	-	2.7 J	3.9 J
Styrene	µg/m^3		4400		44000		0.25 U	-	-	-	0.25 U	-	-	2.5 U	2.5 U
tert-Butyl alcohol	µg/m^3						0.16 J	-	-	-	0.12 U	-	-	4.5 J	3.6 J
tert-Butylbenzene	µg/m^3						0.36 U	-	-	-	0.36 U	-	-	3.6 U	3.6 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	1700	1.9	-	-	-	74	-	-	350	350
Tetrahydrofuran	µg/m^3						0.19 U	-	-	-	0.19 U	-	-	1.9 U	1.9 U
Toluene	µg/m^3		22000		220000		0.69 J	-	-	-	10	-	-	2.8 J	3.6 J
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	-	-	-	0.20 U	-	-	2.0 U	2.0 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		0.22 U	-	-	-	0.22 U	-	-	2.2 U	2.2 U
Trichloroethene	µg/m^3	30	8.8	300	88	100	6.7	-	-	-	25	-	-	1600[cde]	1600[cde]
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		1.9	-	-	-	16	-	-	15	14
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		6.2	-	-	-	0.77 J	-	-	2.4 U	2.4 U
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	130		0.15 U	-	-	-	0.15 U	-	-	1.5 U	1.5 U
Vinyl chloride	µg/m^3	28	440	280	4400	40	0.18 U	-	-	-	0.18 U	-	-	1.8 U	1.8 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%						0.22 U	-	-	-	0.23 U	-	-	0.22 U	0.22 U
Ethene	%						0.22 U	-	-	-	0.23 U	-	-	0.22 U	0.22 U
Helium	%						-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.5	0.5	0.20 U	-	-	-	0.21 U	-	-	0.20 U	0.20 U
Methane, field, unfiltered	%	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.5	0.5	0.0 Dup 0.0	-	0	0	-	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon															
Radon-222	pCi/L						-	865 +/-43	-	-	-	634 +/-32	-	-	-

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe D*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe B*	*Parcel 5175, Bldg 1, Probe C*	*Parcel 5175, Bldg 1, Probe C*
Sample ID:							*SSR-38443-080212-GL-003*	*SS-38443-080312-GL-042*	*SS-38443-080312-GL-044*	*SSR-38443-080212-GL-005*	*SS-38443-080312-GL-045*	*SS-38443-080112-GL-029*	*SS-38443-080112-GL-029*	*SS-38443-080112-GL-020*	*SS-38443-080112-GL-018*	*SS-38443-080112-GL-019*
Sample Date:							*8/2/2012*	*8/3/2012*	*8/3/2012*	*8/2/2012*	*8/3/2012*	*8/1/2012*	*8/2/2012*	*8/1/2012*	*8/1/2012*	*8/1/2012*
		ELCR	HI	ELCR	HI											*Duplicate*
	Units	*a*	*b*	*c*	*d*	*e*										
Cumulative Risk																
Total HI	µg/m^3		1		1		-	94[d]	2[d]	-	0	8[d]	-	8[d]	0	-
Total Risk	µg/m^3	1E-5		1E-5			-	3E-04[c]	6E-06	-	2E-06	2E-05[c]	-	2E-05[c]	4E-07	-
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/m^3		22000		220000		-	12 J	98	-	0.33 U	1.7 J	-	3.1	0.27 J	0.30 J
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			-	22 U	0.84 U	-	0.84 U	0.74 U	-	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		-	16 U	0.59 U	-	0.59 U	0.52 U	-	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	77		770		630	-	5.6 U	0.21 U	-	0.21 U	0.19 U	-	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3		880		8800		-	6.8 U	0.25 U	-	0.25 U	0.22 U	-	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		-	39 UJ	1.5 UJ	-	1.5 UJ	1.3 UJ	-	0.73 UJ	0.73 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3		31		310		-	17 U	0.62 U	-	9.0	1.8	-	0.31 U	0.55 J	7.6 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39	2.0	390		-	18 U	0.68 U	-	0.68 U	0.60 U	-	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3		880		8800		-	23 U	0.84 U	-	0.84 U	0.74 U	-	0.42 U	0.42 U	0.42 U
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		-	10 U	0.38 U	-	1.0 J	0.72 J	-	0.19 U	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		-	13 U	0.48 U	-	0.48 U	0.42 U	-	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						-	12 U	2.6 J	-	0.45 U	0.39 U	-	0.55 J	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3						-	17 U	0.64 U	-	2.5	0.56 U	-	3.1	0.32 U	0.32 U
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		-	7.6 U	0.28 U	-	0.28 U	0.25 U	-	0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		-	21 U	0.78 U	-	0.78 U	0.69 U	-	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		-	21 U	0.77 U	-	0.77 U	0.68 U	-	0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		-	15 U	0.58 U	-	0.70 J	0.51 U	-	0.29 U	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3						-	9.7 U	0.36 U	-	0.81 J	1.1 J	-	0.18 U	0.18 U	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		-	32 U	1.9 J	-	95	3.4 J	-	1.9 J	1.7 J	1.2 J
2-Chlorotoluene	µg/m^3						-	17 U	0.65 U	-	0.65 U	0.57 U	-	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m^3		130		1300		-	13 U	0.48 U	-	0.48 U	0.76 J	-	0.24 UJ	0.24 UJ	0.26 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						-	19 U	0.70 U	-	0.70 U	0.62 U	-	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3						-	17 U	0.65 U	-	1.9 J	0.57 U	-	0.32 U	0.32 U	2.3
4-Methyl-2-pentanone (Methyl isobutyl ketone) (M	µg/m^3		13000		130000		-	9.9 U	0.37 U	-	0.63 J	0.32 U	-	0.18 U	0.18 U	0.33 J
Acetone	µg/m^3		140000		1400000		-	180 U	10 J	-	110	27	-	15 J	12 J	6.4 J
Allyl chloride	µg/m^3	20	4.4	200	44		-	8.0 U	0.30 U	-	0.30 U	0.26 U	-	0.15 U	0.15 U	0.15 U
Benzene	µg/m^3	16	130	160	1300	40	-	9.6 U	0.36 U	-	1.0 J	0.91 J	-	2.0	0.18 U	1.3
Benzyl chloride	µg/m^3	2.5	4.4	25	44		-	22 U	0.81 U	-	0.81 U	0.71 U	-	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	3.3		33			-	16 U	0.59 U	-	0.59 U	0.52 U	-	0.29 U	0.29 U	0.29 U
Bromoform	µg/m^3	110		1,100			-	27 U	0.99 U	-	0.99 U	0.87 U	-	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		-	6.6 U	0.25 U	-	0.25 U	0.22 U	-	0.12 U	0.12 U	0.12 U
Butane	µg/m^3						-	8.1 U	0.44 J	-	2.9	6.9	-	0.30 J	1.2 J	0.59 J
Carbon disulfide	µg/m^3		3100		31000		-	5.2 U	23	-	0.77 J	39	-	0.16 J	0.39 J	0.21 J
Carbon tetrachloride	µg/m^3	20	440	200	4400		-	13 U	0.48 U	-	0.48 J	0.50 J	-	0.48 J	0.54 J	0.55 J
Chlorobenzene	µg/m^3		220		2200		-	12 U	0.45 U	-	0.45 U	0.40 U	-	0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3		220000		2200000		-	7.0 U	0.89 J	-	10	1.3	-	2.0	1.3	1.1
Chloroethane	µg/m^3		44000		440000		-	4.9 U	0.18 U	-	0.18 U	0.98	-	0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	4000	-	69[c]	0.89 J	-	0.37 U	3.4	-	0.49 J	0.19 U	0.19 U
Chloromethane (Methyl chloride)	µg/m^3		390		3900		-	18 U	1.3 J	-	1.8 J	4.6	-	0.33 U	0.33 U	0.33 U
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	1500	-	250	0.48 U	-	0.48 U	0.42 U	-	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		-	18 U	0.67 U	-	0.67 U	0.59 U	-	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m^3		26000		260000		-	7.4 U	0.28 U	-	4.7	4.7	-	0.14 U	0.14 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3						-	17 U	0.63 U	-	0.63 U	0.55 U	-	0.31 U	0.31 U	0.31 U
Dibromochloromethane	µg/m^3	4.5		45			-	19 U	0.72 U	-	0.72 U	0.63 U	-	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		-	18 U	4.1	-	2.6	2.4	-	1.9	2.1	2.0
Ethylbenzene	µg/m^3	49	4400	490	44000	13000	-	16 U	0.59 U	-	10	1.5	-	0.30 U	0.30 UJ	1.8 J
Hexachlorobutadiene	µg/m^3	5.6		56			-	45 UJ	1.7 UJ	-	1.7 UJ	1.5 UJ	-	0.83 UJ	0.83 UJ	0.83 UJ
Hexane	µg/m^3		3100		31000		-	6.0 U	0.62 J	-	65	3.4	-	0.48 J	0.38 J	0.23 J
Isopropyl alcohol	µg/m^3						-	5.8 U	0.78 J	-	2.5 J	2.7 J	-	0.90 J	0.75 J	0.55 J
Isopropyl benzene	µg/m^3		1800		18000		-	16 U	0.59 U	-	0.59 U	0.52 U	-	0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m^3		440		4400	8000	-	28 U	1.0 U	-	37	6.4	-	0.52 U	0.66 J	11 J
Methyl methacrylate	µg/m^3		3100		31000		-	17 U	0.65 U	-	0.65 U	0.57 U	-	0.32 U	0.32 U	0.56 J
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		-	33 U	1.2 U	-	1.2 U	1.1 U	-	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m^3	12000	2600	120,000	26000		-	19 U	4.4	-	3.5	1.9 U	-	3.7	1.4 U	1.3 U
Naphthalene	µg/m^3	3.6	13	36	130	15.2	-	25 UJ	0.94 UJ	-	3.6 J	1.3 J	-	0.47 U	0.47 U	0.47 U
N-Butylbenzene	µg/m^3						-	14 U	0.51 U	-	0.64 J	0.44 U	-	0.25 U	0.25 U	0.75 J
N-Decane	µg/m^3						-	17 U	0.65 U	-	15	0.57 U	-	0.43 J	0.33 U	0.47 J

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe C*	*Parcel 5174, Bldg 1, Probe D*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe A*	*Parcel 5175, Bldg 1, Probe B*	*Parcel 5175, Bldg 1, Probe C*	*Parcel 5175, Bldg 1, Probe C*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SSR-38443-080212-GL-003*	*SS-38443-080312-GL-042*	*SS-38443-080312-GL-044*	*SSR-38443-080212-GL-005*	*SS-38443-080312-GL-045*	*SS-38443-080112-GL-029*	*SS-38443-080112-GL-029*	*SS-38443-080112-GL-020*	*SS-38443-080112-GL-018*	*SS-38443-080112-GL-019*
Sample Date:							*8/2/2012*	*8/3/2012*	*8/3/2012*	*8/2/2012*	*8/3/2012*	*8/1/2012*	*8/2/2012*	*8/1/2012*	*8/1/2012*	*8/1/2012*
		ELCR	HI	ELCR	HI											*Duplicate*
	Units	*a*	*b*	*c*	*d*	*e*										
N-Dodecane	µg/m^3						-	29 UJ	1.2 J	-	8.8 J	1.2 J	-	0.54 U	0.72 J	0.54 U
N-Heptane	µg/m^3						-	10 U	0.39 U	-	11	1.1 J	-	0.19 U	0.19 U	0.19 U
Nonane	µg/m^3		880		8800		-	12 U	0.45 U	-	10	0.40 U	-	0.23 U	0.23 U	0.30 J
N-Propylbenzene	µg/m^3						-	15 U	0.55 U	-	1.2 J	0.48 U	-	0.28 U	0.28 U	0.91 J
N-Undecane	µg/m^3						-	21 U	0.79 U	-	9.7 J	0.70 U	-	0.41 J	0.40 UJ	0.40 UJ
Octane	µg/m^3						-	9.0 U	0.34 U	-	2.5 J	0.30 U	-	0.17 U	0.17 U	0.19 J
o-Xylene	µg/m^3		440		4400	8000	-	14 U	0.53 U	-	8.9	3.9	-	0.26 U	0.27 J	5.0 J
Pentane	µg/m^3		4400		44000		-	9.5 U	1.5 J	-	100	7.1	-	0.18 U	0.60 J	0.18 U
Styrene	µg/m^3		4400		44000		-	13 U	0.49 U	-	0.49 U	0.43 U	-	0.25 U	0.25 U	0.25 U
tert-Butyl alcohol	µg/m^3						-	7.8 J	0.45 J	-	0.75 J	0.89 J	-	0.43 J	0.70 J	0.36 J
tert-Butylbenzene	µg/m^3						-	19 U	0.72 U	-	0.72 U	0.64 U	-	0.36 U	0.36 U	0.79 J
Tetrachloroethene	µg/m^3	470	180	4700	1800	1700	-	240	270	-	0.54 U	33	-	25	8.3	9.6
Tetrahydrofuran	µg/m^3						-	9.9 U	0.37 U	-	0.37 U	0.33 U	-	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		22000		220000		-	11 U	1.7	-	200	8.7	-	0.56 J	1.2 J	4.7 J
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	41 J	0.40 U	-	0.40 U	0.35 U	-	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		-	12 U	0.44 U	-	0.44 U	0.38 U	-	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	100	-	8300[cde]	170[de]	-	0.53 J	670[cde]	-	660[cde]	5.6	5.9
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	13 J	31	-	2.4	4.7	-	11	4.3	4.4
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	13 U	1.0 J	-	0.59 J	0.57 J	-	0.61 J	0.67 J	0.64 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	130		-	8.2 U	0.31 U	-	0.31 U	0.27 U	-	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	40	-	9.7 U	0.36 U	-	0.44 J	0.32 U	-	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-
Fixed Gases																
Ethane	%						-	0.22 U	0.23 U	-	0.24 U	0.29 U	-	0.22 U	0.21 U	0.24 U
Ethene	%						-	0.22 U	0.23 U	-	0.24 U	0.29 U	-	0.22 U	0.21 U	0.24 U
Helium	%						-	-	-	-	-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.5	0.5	-	0.20 U	0.21 U	-	0.22 U	0.26 U	-	0.20 U	0.19 U	0.21 U
Methane, field, unfiltered	%	0.5	0.5	0.5	0.5	0.5	-	-	-	-	-	-	-	-	-	-
Methane, field, filtered	%	0.5	0.5	0.5	0.5	0.5	-	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0	0.0 Dup 0.1	0.0 Dup 0.0	0.0 Dup 0.0
Radon																
Radon-222	pCi/L						748 +/-37	-	-	306 +/-15	-	-	-	-	-	-

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe B*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-073012-GL-001*	*SS-38443-073012-GL-002*
Sample Date:							*7/30/2012*	*7/30/2012*
		ELCR	HI	ELCR	HI			
	Units	*a*	*b*	*c*	*d*	*e*		
Cumulative Risk								
Total HI	µg/m^3		1		1		1	0
Total Risk	µg/m^3	1E-5		1E-5			2E-06	2E-05[a]
Volatile Organic Compounds								
1,1,1-Trichloroethane	µg/m^3		22000		220000		72	140 J
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			2.1 U	0.52 UJ
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		1.5 U	0.36 UJ
1,1-Dichloroethane	µg/m^3	77		770		630	0.53 U	0.13 UJ
1,1-Dichloroethene	µg/m^3		880		8800		0.63 U	0.16 UJ
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		3.6 UJ	0.89 UJ
1,2,4-Trimethylbenzene	µg/m^3		31		310		1.5 U	0.38 UJ
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.20	39	2.0	390		1.7 U	4.2 J[a]
1,2-Dichlorobenzene	µg/m^3		880		8800		2.1 U	0.52 UJ
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		0.95 U	0.23 UJ
1,2-Dichloroethene (total)	µg/m^3						-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		1.2 U	0.30 UJ
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						1.1 U	0.28 UJ
1,3,5-Trimethylbenzene	µg/m^3						1.6 U	0.39 UJ
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		0.71 U	0.17 UJ
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		2.0 U	0.48 UJ
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		1.9 U	0.47 UJ
1,4-Dioxane	µg/m^3	16	13000	160	130000		1.4 U	0.35 UJ
2,2,4-Trimethylpentane	µg/m^3						0.91 U	0.22 UJ
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		2.9 U	2.7 J
2-Chlorotoluene	µg/m^3						1.6 U	0.40 UJ
2-Hexanone	µg/m^3		130		1300		1.2 U	0.36 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						1.8 U	0.43 UJ
4-Ethyl toluene	µg/m^3						1.6 U	0.40 UJ
4-Methyl-2-pentanone (Methyl isobutyl ketone) (M	µg/m^3		13000		130000		0.92 U	0.23 UJ
Acetone	µg/m^3		140000		1400000		17 UJ	21 J
Allyl chloride	µg/m^3	20	4.4	200	44		0.75 U	0.18 UJ
Benzene	µg/m^3	16	130	160	1300	40	0.89 U	0.22 UJ
Benzyl chloride	µg/m^3	2.5	4.4	25	44		2.0 U	0.50 UJ
Bromodichloromethane	µg/m^3	3.3		33			1.5 U	0.36 UJ
Bromoform	µg/m^3	110		1,100			2.5 U	0.61 UJ
Bromomethane (Methyl bromide)	µg/m^3		22		220		0.62 U	0.15 UJ
Butane	µg/m^3						0.76 UJ	3.7 J
Carbon disulfide	µg/m^3		3100		31000		0.48 U	0.36 J
Carbon tetrachloride	µg/m^3	20	440	200	4400		1.2 UJ	0.89 J
Chlorobenzene	µg/m^3		220		2200		1.1 U	0.28 UJ
Chlorodifluoromethane	µg/m^3		220000		2200000		2.8 J	16 J
Chloroethane	µg/m^3		44000		440000		0.46 U	0.11 UJ
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	4000	2.6 J	0.26 J
Chloromethane (Methyl chloride)	µg/m^3		390		3900		1.7 U	0.41 UJ
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	1500	1.2 U	0.29 UJ
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		1.7 U	0.41 UJ
Cyclohexane	µg/m^3		26000		260000		0.69 U	0.17 UJ
Cymene (p-Isopropyltoluene)	µg/m^3						1.6 U	0.38 UJ
Dibromochloromethane	µg/m^3	4.5		45			1.8 U	0.44 UJ
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		4.3 J	5.1 J
Ethylbenzene	µg/m^3	49	4400	490	44000	13000	1.5 U	0.36 UJ
Hexachlorobutadiene	µg/m^3	5.6		56			4.2 U	1.0 UJ
Hexane	µg/m^3		3100		31000		0.56 U	4.4 J
Isopropyl alcohol	µg/m^3						0.84 J	1.8 J
Isopropyl benzene	µg/m^3		1800		18000		1.5 U	0.36 UJ
m&p-Xylenes	µg/m^3		440		4400	8000	2.6 U	0.84 J
Methyl methacrylate	µg/m^3		3100		31000		1.6 U	0.40 UJ
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		3.1 U	0.75 UJ
Methylene chloride	µg/m^3	12000	2600	120,000	26000		4.4 U	14 J
Naphthalene	µg/m^3	3.6	13	36	130	15.2	2.4 UJ	0.58 UJ
N-Butylbenzene	µg/m^3						1.3 U	0.31 UJ
N-Decane	µg/m^3						1.6 U	1.2 J

TABLE 4.7

SUMMARY OF ROUND 2 INDUSTRIAL SS ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe B*
Sample ID:		Industrial SVSL for Further Investigation		Industrial SVSL for Monitoring		ODH SS Non-residential	*SS-38443-073012-GL-001*	*SS-38443-073012-GL-002*
Sample Date:							*7/30/2012*	*7/30/2012*
		ELCR	HI	ELCR	HI			
	Units	*a*	*b*	*c*	*d*	*e*		
N-Dodecane	µg/m^3						2.7 UJ	2.2 J
N-Heptane	µg/m^3						0.96 U	0.27 J
Nonane	µg/m^3		880		8800		1.1 U	0.28 UJ
N-Propylbenzene	µg/m^3						1.4 U	0.34 UJ
N-Undecane	µg/m^3						2.0 U	0.54 J
Octane	µg/m^3						0.84 U	0.22 J
o-Xylene	µg/m^3		440		4400	8000	1.3 U	0.33 UJ
Pentane	µg/m^3		4400		44000		0.89 U	2.5 J
Styrene	µg/m^3		4400		44000		1.2 U	0.30 UJ
tert-Butyl alcohol	µg/m^3						0.58 U	0.62 J
tert-Butylbenzene	µg/m^3						1.8 U	0.45 UJ
Tetrachloroethene	µg/m^3	470	180	4700	1800	1700	910[ab]	2.2 J
Tetrahydrofuran	µg/m^3						0.93 U	0.23 UJ
Toluene	µg/m^3		22000		220000		1.0 U	3.1 J
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.99 U	0.24 UJ
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		1.1 U	0.27 UJ
Trichloroethene	µg/m^3	30	8.8	300	88	100	0.97 U	0.24 UJ
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		4.4 J	11 J
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		1.2 U	0.84 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	130		0.77 U	0.19 UJ
Vinyl chloride	µg/m^3	28	440	280	4400	40	0.91 U	0.22 UJ
Xylenes (total)	µg/m^3		440		4400		-	-
Fixed Gases								
Ethane	%						0.22 U	0.22 U
Ethene	%						0.22 U	0.22 U
Helium	%						-	-
Methane	%	0.5	0.5	0.5	0.5	0.5	0.19 U	0.20 U
Methane, field, unfiltered	%	0.5	0.5	0.5	0.5	0.5	0.0	-
Methane, field, filtered	%	0.5	0.5	0.5	0.5	0.5	0	0.0 Dup 0.0
Radon								
Radon-222	pCi/L						-	-

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

pCi/L - picoCuries per Liter

SVSL - Soil Vapor Screening Level

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

- - Not applicable.

The industrial SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

[ ] - Concentration was greater than applicable criteria.

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1*	*Parcel 3207, Bldg 2*	*Parcel 3207, Bldg 2*	*Parcel 4610, Bldg C*	*Parcel 4610, Bldg D*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 5*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP*	*Parcel 5171, Bldg 1*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*OA-38443-081112-GL-082*	*OA-38443-081112-GL-091*	*OA-38443-081112-GL-092*	-	-	*OA-38443-080612-GL-051*	*OA-38443-080612-GL-053*	-	*CS-38443-080612-GL-057*	*OA-38443-080612-GL-058*	*OA-38443-080712-GL-059*
Sample Date:							*8/11/2012*	*8/11/2012*	*8/11/2012*	*7/31/2012*	*7/31/2012*	*8/6/2012*	*8/6/2012*	*8/2/2012*	*8/6/2012*	*8/6/2012*	*8/7/2012*
Sample Type:		ELCR	HI	ELCR	HI				*Duplicate*								
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m^3		1		1		-	-	-	-	-	-	-	-	2[b]	-	-
Total Risk	µg/m^3	1E-5		1E-5		1E-5	-	-	-	-	-	-	-	-	7E-06	-	-
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m^3		22000		220000		0.16 U	0.16 U	0.16 U	-	-	0.16 U	0.16 U	-	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			0.42 U	0.42 U	0.42 U	-	-	0.42 U	0.42 U	-	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		0.29 U	0.29 U	0.29 U	-	-	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	77		770		63	0.11 U	0.11 U	0.11 U	-	-	0.11 U	0.11 U	-	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3		880		8800		0.13 U	0.13 U	0.13 U	-	-	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		0.73 UJ	0.73 UJ	0.73 U	-	-	0.73 UJ	0.73 UJ	-	0.73 UJ	0.73 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3		31		310		0.31 U	0.31 U	0.63 J	-	-	0.43 J	0.33 J	-	0.31 U	0.36 J	3.0
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.2	39	2	390		0.34 U	0.34 U	0.34 U	-	-	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3		880		8800		0.42 U	0.42 U	0.42 U	-	-	0.42 U	0.42 U	-	0.42 U	0.42 U	0.42 U
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		0.24 U	0.24 U	0.24 U	-	-	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						0.22 U	0.22 U	0.22 U	-	-	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3						0.32 U	0.32 U	0.32 U	-	-	0.32 U	0.32 U	-	0.32 U	0.32 U	0.75 J
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		0.14 U	0.14 U	0.14 U	-	-	0.14 U	0.14 U	-	0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		0.39 U	0.39 U	0.39 U	-	-	0.39 U	0.39 U	-	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		0.38 U	0.38 U	0.38 U	-	-	0.38 U	0.38 U	-	0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		0.29 U	0.29 U	0.29 U	-	-	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3						0.18 U	1.1 J	0.18 U	-	-	0.23 J	0.19 J	-	4.9	0.33 J	0.77 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		0.98 J	1.4 J	0.92 J	-	-	1.7 J	1.5 J	-	2.9 J	1.2 J	3.7
2-Chlorotoluene	µg/m^3						0.33 U	0.33 U	0.33 U	-	-	0.33 U	0.33 U	-	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m^3		130		1300		0.24 U	0.24 U	0.24 U	-	-	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						0.35 U	0.35 U	0.35 U	-	-	0.35 U	0.35 U	-	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3						0.32 U	0.32 U	0.32 U	-	-	0.32 U	0.32 U	-	0.32 U	0.32 U	0.87 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		130000		0.18 U	0.18 U	0.18 U	-	-	0.18 U	0.20 J	-	0.43 J	0.18 U	73
Acetone	µg/m^3		140000		1400000		8.7 J	14	8.7 J	-	-	13	11 J	-	22	8.3 J	130
Allyl chloride	µg/m^3	20	4.4	200	44		0.15 U	0.15 U	0.15 U	-	-	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U
Benzene	µg/m^3	16	130	160	1300	4	0.18 J	0.23 J	0.21 J	-	-	0.41 J	0.47 J	-	0.73	0.36 J	0.96
Benzyl chloride	µg/m^3	2.5	4.4	25	44		0.40 U	0.40 U	0.40 U	-	-	0.40 U	0.40 U	-	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	3.3		33			0.29 U	0.29 U	0.29 U	-	-	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U
Bromoform	µg/m^3	110		1,100			0.50 U	0.50 U	0.50 U	-	-	0.50 U	0.50 U	-	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		0.12 U	0.12 U	0.12 U	-	-	0.12 U	0.12 U	-	0.12 U	0.12 U	0.12 U
Butane	µg/m^3						0.30 J	0.53 J	0.53 J	-	-	1.0	4.1	-	0.93 J	0.83 J	3.1
Carbon disulfide	µg/m^3		3100		31000		0.097 U	0.097 U	0.097 U	-	-	0.097 U	0.097 U	-	0.39 J	0.097 U	0.097 U
Carbon tetrachloride	µg/m^3	20	440	200	4400		0.44 J	0.48 J	0.43 J	-	-	0.44 J	0.43 J	-	0.54 J	0.37 J	0.46 J
Chlorobenzene	µg/m^3		220		2200		0.23 U	0.23 U	0.23 U	-	-	0.23 U	0.23 U	-	0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3		220000		2200000		0.83	1.0	0.90	-	-	0.92	1.0	-	1.1	0.88	1.5
Chloroethane	µg/m^3		44000		440000		0.092 U	0.092 U	0.092 U	-	-	0.092 U	0.092 U	-	0.10 J	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	400	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	-	0.19 U	0.19 U	0.21 J
Chloromethane (Methyl chloride)	µg/m^3		390		3900		1.3	1.3	1.1	-	-	1.1	1.4	-	1.3	1.0	1.3
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	150	0.24 U	0.24 U	0.24 U	-	-	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		0.34 U	0.34 U	0.34 U	-	-	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m^3		26000		260000		0.14 U	0.18 J	0.14 U	-	-	0.44 J	0.31 J	-	1.7	0.32 J	1.00 J
Cymene (p-Isopropyltoluene)	µg/m^3						0.31 U	0.31 U	0.31 U	-	-	0.31 U	0.31 U	-	0.31 U	0.31 U	0.31 U
Dibromochloromethane	µg/m^3	4.5		45			0.36 U	0.36 U	0.36 U	-	-	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		2.3	2.6	2.1	-	-	2.2	2.2	-	2.4	2.3	2.3
Ethylbenzene	µg/m^3	49	4400	490	44000	1300	0.30 U	0.30 U	0.30 U	-	-	0.31 J	0.30 U	-	0.54 J	0.30 U	8.2
Hexachlorobutadiene	µg/m^3	5.6		56			0.83 U	0.83 UJ	0.83 U	-	-	0.83 UJ	0.83 UJ	-	0.83 UJ	0.83 UJ	0.83 UJ
Hexane	µg/m^3		3100		31000		0.23 J	0.51 J	0.41 J	-	-	0.54 J	0.49 J	-	7.7	0.32 J	1.5 J
Isopropyl alcohol	µg/m^3						0.44 J	0.73 J	0.43 J	-	-	1.1 J	1.1 J	-	1.2 J	0.85 J	3.1 J
Isopropyl benzene	µg/m^3		1800		18000		0.29 U	0.29 U	0.29 U	-	-	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m^3		440		4400	800	0.52 U	0.52 U	0.86	-	-	0.91	0.78 J	-	0.79 J	0.68 J	35
Methyl methacrylate	µg/m^3		3100		31000		0.32 U	0.32 U	0.32 U	-	-	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		0.61 U	0.61 U	0.61 U	-	-	0.61 U	0.61 U	-	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m^3	12,000	2600	120,000	26000		1.1 U	1.5 U	2.7	-	-	0.84 J	0.86 J	-	0.74 J	0.63 J	1.9
Naphthalene	µg/m^3	3.6	13	36	130	15.2	0.47 UJ	0.47 UJ	0.54 J	-	-	0.47 UJ	0.47 UJ	-	0.47 UJ	0.47 UJ	0.47 UJ
N-Butylbenzene	µg/m^3						0.25 U	0.25 U	0.25 U	-	-	0.25 U	0.25 U	-	0.25 U	0.25 U	0.25 U
N-Decane	µg/m^3						0.33 UJ	0.33 UJ	0.93 J	-	-	1.1 J	0.63 J	-	0.33 UJ	0.33 UJ	5.8 J
N-Dodecane	µg/m^3						1.7 J	0.54 U	0.54 U	-	-	0.76 J	1.3 J	-	0.54 U	0.54 U	0.96 J
N-Heptane	µg/m^3						0.19 U	0.69 J	0.19 U	-	-	0.47 J	0.35 J	-	21	0.19 U	1.0 J
Nonane	µg/m^3		880		8800		0.23 U	0.23 U	0.23 U	-	-	0.40 J	0.36 J	-	0.23 U	0.23 U	3.4
N-Propylbenzene	µg/m^3						0.28 U	0.28 U	0.28 U	-	-	0.28 U	0.28 U	-	0.28 U	0.28 U	0.50 J
N-Undecane	µg/m^3						0.47 J	0.40 U	0.55 J	-	-	0.73 J	0.77 J	-	0.40 U	0.40 U	3.1 J
Octane	µg/m^3						0.48 J	0.17 U	0.17 U	-	-	0.32 J	0.26 J	-	1.1 J	0.17 U	0.42 J

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 1*	*Parcel 3207, Bldg 2*	*Parcel 3207, Bldg 2*	*Parcel 4610, Bldg C*	*Parcel 4610, Bldg D*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 5*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP*	*Parcel 5171, Bldg 1*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*OA-38443-081112-GL-082*	*OA-38443-081112-GL-091*	*OA-38443-081112-GL-092*	-	-	*OA-38443-080612-GL-051*	*OA-38443-080612-GL-053*	-	*CS-38443-080612-GL-057*	*OA-38443-080612-GL-058*	*OA-38443-080712-GL-059*
Sample Date:							*8/11/2012*	*8/11/2012*	*8/11/2012*	*7/31/2012*	*7/31/2012*	*8/6/2012*	*8/6/2012*	*8/2/2012*	*8/6/2012*	*8/6/2012*	*8/7/2012*
Sample Type:		ELCR	HI	ELCR	HI				*Duplicate*								
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	0.26 U	0.26 U	0.26 U	-	-	0.37 J	0.31 J	-	0.26 U	0.26 U	11
Pentane	µg/m^3		4400		44000		0.44 J	0.74 J	0.60 J	-	-	1.0 J	1.0 J	-	0.92 J	0.95 J	3.2
Styrene	µg/m^3		4400		44000		0.25 U	0.25 U	0.25 U	-	-	0.25 U	0.25 U	-	0.25 U	0.25 U	1.4
tert-Butyl alcohol	µg/m^3						0.12 U	0.24 J	0.12 U	-	-	0.12 U	0.35 J	-	0.53 J	0.12 U	0.19 J
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.36 U	-	-	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	0.27 U	0.27 U	0.27 U	-	-	0.27 U	0.27 U	-	**260**[w]	0.27 U	0.27 U
Tetrahydrofuran	µg/m^3						0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	-	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		22000		220000		0.82	3.7	2.4	-	-	1.8	1.8	-	20	0.49 J	7.9
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	0.20 U	0.20 U	-	-	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		0.22 U	0.22 U	0.22 U	-	-	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	0.19 U	0.19 U	0.19 U	-	-	0.19 U	0.19 U	-	0.49 J	0.19 U	0.38 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		1.3	1.4	1.3	-	-	1.3	1.4	-	1.4	1.2	1.6
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.55 J	0.62 J	0.53 J	-	-	0.54 J	0.52 J	-	0.61 J	0.53 J	0.59 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	0.15 U	0.15 U	-	-	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	0.18 U	0.18 U	-	-	0.18 U	0.18 U	-	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						0.22 U	0.21 U	0.23 U	-	-	0.22 U	0.24 U	-	0.24 U	0.23 U	0.24 U
Ethene	%						0.22 U	0.21 U	0.23 U	-	-	0.22 U	0.24 U	-	0.24 U	0.23 U	0.24 U
Methane	%	0.05	0.05	0.05	0.05	0.05	0.20 U	0.19 U	0.21 U	-	-	0.19 U	0.21 U	-	0.22 U	0.21 U	0.22 U
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon																	
Radon-222	pCi/L						-	-	-	-	-	-	-	-	-	-	-

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 4*	*Parcel 5171, Bldg 4*	*Parcel 5171, Bldg 4*	*Parcel 5172, Bldg 2*	*Parcel 5172, Bldg 3*	*Parcel 5174, Outdoor Air*	*Parcel 5175*	*Parcel 3207, Bldg 1, IA_A*	*Parcel 3207, Bldg 1, Cubicles*	*Parcel 3207, Bldg 1, IA_D*	*Parcel 3207, Bldg 1, IA_D*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*CS-38443-080712-GL-069*	*OA-38443-080712-GL-070*	*OA-38443-080712-GL-071*	*OA-38443-080212-GL-037*	*-*	*OA-38443-080312-GL-047*	*OA-38443-080112-GL-023*	*IA-38443-081112-GL-078*	*IA-38443-081112-GL-081*	*IA-38443-081112-GL-079*	*IA-38443-081112-GL-080*
Sample Date:							*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/7/2012*	*8/3/2012*	*8/1/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*
Sample Type:		ELCR	HI	ELCR	HI				*Duplicate*								*Duplicate*
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m³		1		1		1	-	-	-	-	-	-	0	0	0	-
Total Risk	µg/m³	1E-5		1E-5		1E-5	3E-06	-	-	-	-	-	-	2E-06	3E-06	2E-06	-
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m³		22000		220000		0.16 U	0.16 U	0.16 U	0.16 U	-	0.16 U	0.16 U	0.16 U	0.33 U	0.16 U	0.33 U
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			0.42 U	0.42 U	0.42 U	0.42 U	-	0.42 U	0.42 U	0.42 U	0.84 U	0.42 U	0.84 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.59 U	0.29 U	0.59 U
1,1-Dichloroethane	µg/m³	77		770		63	0.11 U	0.11 U	0.11 U	0.11 U	-	0.11 U	0.11 U	0.11 U	0.21 U	0.11 U	0.21 U
1,1-Dichloroethene	µg/m³		880		8800		0.13 U	0.13 U	0.13 U	0.13 U	-	0.13 U	0.13 U	0.13 U	0.25 U	0.13 U	0.25 U
1,2,4-Trichlorobenzene	µg/m³		8.8		88		0.73 U	0.73 U	0.73 UJ	0.73 UJ	-	0.73 UJ	0.73 UJ	0.73 UJ	1.5 UJ	0.73 UJ	1.5 UJ
1,2,4-Trimethylbenzene	µg/m³		31		310		0.31 U	3.8	0.37 J	0.31 U	-	0.31 U	1.4	0.67 J	2.8	8.0	8.2
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		0.34 U	0.34 U	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U	0.68 U	0.34 U	0.68 U
1,2-Dichlorobenzene	µg/m³		880		8800		0.42 U	0.42 U	0.42 U	0.42 U	-	0.42 U	1.9	0.42 U	0.84 U	0.42 U	0.84 U
1,2-Dichloroethane	µg/m³	4.7	31	47	310		0.19 U	0.19 U	0.19 U	0.19 U	-	0.19 U	0.19 U	0.57 J	0.80 J	0.43 J	0.49 J
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		0.24 U	0.24 U	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.48 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	0.22 U	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U	0.45 U	0.22 U	0.45 U
1,3,5-Trimethylbenzene	µg/m³						0.32 U	0.60 J	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.65 J	2.0	1.8 J
1,3-Butadiene	µg/m³	4.1	8.8	41	88		0.14 U	0.14 U	0.14 U	0.14 U	-	0.14 U	0.14 U	0.14 U	0.28 U	0.14 U	0.28 U
1,3-Dichlorobenzene[a]	µg/m³	11	3500	110	35000		0.39 U	0.39 U	0.39 U	0.39 U	-	0.39 U	0.39 U	0.39 U	0.78 U	0.39 U	0.78 U
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		0.38 U	0.38 U	0.38 U	0.38 U	-	0.38 U	0.38 U	0.38 U	0.77 U	0.38 U	0.77 U
1,4-Dioxane	µg/m³	16	13000	160	130000		0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.58 U	0.29 U	0.58 U
2,2,4-Trimethylpentane	µg/m³						0.26 J	0.40 J	0.44 J	0.39 J	-	0.24 J	0.27 J	3.9	0.42 J	0.18 U	0.68 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		1.1 J	1.9 J	2.1 J	1.7 J	-	2.3 J	3.6	3.7	2.6 J	2.8 J	2.8 J
2-Chlorotoluene	µg/m³						0.33 U	0.33 U	0.33 U	0.33 U	-	0.33 U	0.33 U	0.33 U	0.65 U	0.33 U	0.65 U
2-Hexanone	µg/m³		130		1300		0.24 U	0.24 U	0.24 U	0.24 U	-	0.24 U	0.47 J	0.24 U	0.48 U	0.25 J	0.48 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	0.35 U	0.35 U	0.35 U	-	0.35 U	0.35 U	0.35 U	0.70 U	0.35 U	0.70 U
4-Ethyl toluene	µg/m³						0.32 U	0.69 J	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.93 J	2.6	2.6 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		0.18 U	0.41 J	0.35 J	0.23 J	-	0.52 J	0.47 J	0.61 J	0.52 J	0.45 J	0.63 J
Acetone	µg/m³		140000		1400000		7.0 J	14 J	15	13	-	18	23 J	150	150	92	100
Allyl chloride	µg/m³	20	4.4	200	44		0.15 U	0.15 U	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U	0.30 U	0.15 U	0.30 U
Benzene	µg/m³	16	130	160	1300	4	0.58 J	0.76	0.76	0.71	-	0.41 J	0.71	0.27 J	0.37 J	0.24 J	0.36 U
Benzyl chloride	µg/m³	2.5	4.4	25	44		0.40 U	0.40 U	0.40 U	0.40 U	-	0.40 U	0.40 U	0.40 U	0.81 U	0.40 U	0.81 U
Bromodichloromethane	µg/m³	3.3		33			0.29 U	0.29 U	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.59 U	0.29 U	0.59 U
Bromoform	µg/m³	110		1,100			0.50 U	0.50 U	0.50 U	0.50 U	-	0.50 U	0.50 U	0.50 U	0.99 U	0.50 U	0.99 U
Bromomethane (Methyl bromide)	µg/m³		22		220		0.12 U	0.12 U	0.12 U	0.12 U	-	0.12 U	0.12 U	0.12 U	0.25 U	0.12 U	0.25 U
Butane	µg/m³						2.5	2.5	2.2	2.4	-	1.7	2.0	1.5	2.3	1.8	2.3
Carbon disulfide	µg/m³		3100		31000		0.16 J	0.17 J	1.6	0.41 J	-	0.50 J	0.12 J	0.11 J	0.19 U	0.13 J	0.21 J
Carbon tetrachloride	µg/m³	20	440	200	4400		0.55 J	0.43 J	0.46 J	0.47 J	-	0.46 J	0.65 J	0.44 J	0.49 J	0.45 J	0.54 J
Chlorobenzene	µg/m³		220		2200		0.23 U	0.23 U	0.23 U	0.23 U	-	0.23 U	0.23 U	0.23 U	0.45 U	0.23 U	0.45 U
Chlorodifluoromethane	µg/m³		220000		2200000		1.6	1.7	1.3	1.4	-	1.2	1.4	61	82	26	31
Chloroethane	µg/m³		44000		440000		0.095 J	0.11 J	0.092 U	0.092 U	-	0.092 U	0.092 U	0.092 U	0.18 U	0.092 U	0.18 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	0.31 J	0.19 U	0.19 U	0.19 U	-	0.19 U	0.21 J	0.19 U	0.37 U	0.19 J	0.37 U
Chloromethane (Methyl chloride)	µg/m³		390		3900		0.53 J	1.3	1.4	1.4	-	1.2	1.4	1.2	1.5 J	1.4	1.5 J
cis-1,2-Dichloroethene[b]	µg/m³		260		2600	150	0.24 U	0.24 U	0.24 U	0.24 U	-	0.24 U	0.24 U	0.24 U	0.48 U	0.24 U	0.48 U
cis-1,3-Dichloropropene[c]	µg/m³	31	88	310	880		0.34 U	0.34 U	0.34 U	0.34 U	-	0.34 U	0.34 U	0.34 U	0.67 U	0.34 U	0.67 U
Cyclohexane	µg/m³		26000		260000		0.62 J	0.93 J	0.84 J	0.27 J	-	0.18 J	0.14 U	0.18 J	0.28 U	0.15 J	0.28 U
Cymene (p-Isopropyltoluene)	µg/m³						0.31 U	0.31 U	0.44 J	0.31 U	-	0.31 U	0.43 J	0.31 U	0.63 U	0.34 J	0.63 U
Dibromochloromethane	µg/m³	4.5		45			0.36 U	0.36 U	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U	0.72 U	0.36 U	0.72 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		2.5	2.1	2.3	2.6	-	2.5	3.3	2.3	2.7	2.2	2.7
Ethylbenzene	µg/m³	49	4400	490	44000	1300	0.33 J	3.4	0.53 J	0.33 J	-	0.30 U	0.69 J	1.6	1.3 J	1.1	1.1 J
Hexachlorobutadiene	µg/m³	5.6		56			0.83 U	0.83 U	0.83 UJ	0.83 UJ	-	0.83 UJ	0.83 UJ	0.83 UJ	1.7 UJ	0.83 UJ	1.7 U
Hexane	µg/m³		3100		31000		0.66 J	1.8	1.2 J	1.4 J	-	1.4 J	0.77 J	0.35 J	0.36 J	0.36 J	0.43 J
Isopropyl alcohol	µg/m³						0.55 J	5.7	2.8 J	1.3 J	-	0.82 J	2.3 J	18	18	6.6 J	16 J
Isopropyl benzene	µg/m³		1800		18000		0.29 U	0.61 J	0.29 U	0.29 U	-	0.29 U	0.29 U	0.29 U	0.59 U	0.86 J	0.83 J
m&p-Xylenes	µg/m³		440		4400	800	1.3	5.0	1.6	0.82 J	-	0.71 J	2.5	4.6	3.8	2.8	2.7
Methyl methacrylate	µg/m³		3100		31000		0.32 U	0.32 U	0.32 U	0.32 U	-	0.32 U	0.32 U	0.32 U	0.65 U	0.32 U	0.65 U
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		0.61 U	0.61 U	0.61 U	0.61 U	-	0.61 U	0.61 U	0.61 U	1.2 U	0.61 U	1.2 U
Methylene chloride	µg/m³	12,000	2600	120,000	26000		0.91 J	8.4	1.0 J	1.2 U	-	0.70 U	1.6 U	1.2 U	1.6 U	1.9 J	3.9 J
Naphthalene	µg/m³	3.6	13	36	130	15.2	0.47 U	1.1 J	0.47 UJ	0.47 UJ	-	0.47 UJ	0.47 U	0.47 UJ	0.94 UJ	0.47 UJ	0.94 UJ
N-Butylbenzene	µg/m³						0.25 U	0.92 J	0.25 U	0.25 U	-	0.25 U	0.25 U	0.25 U	0.51 U	0.30 J	0.51 U
N-Decane	µg/m³						0.33 U	0.56 J	1.8 J	0.33 U	-	0.73 J	0.93 J	0.38 J	1.6 J	5.0 J	5.4 J
N-Dodecane	µg/m³						1.3 J	0.54 U	0.54 U	0.54 UJ	-	0.78 J	0.54 U	0.54 U	2.4 J	1.8 J	7.9 J
N-Heptane	µg/m³						0.24 J	0.76 J	0.80 J	0.77 J	-	0.36 J	0.55 J	1.8 J	1.7 J	1.2 J	1.5 J
Nonane	µg/m³		880		8800		0.23 U	0.44 J	0.89 J	0.23 U	-	0.44 J	0.40 J	0.23 U	0.81 J	1.3 J	1.2 J
N-Propylbenzene	µg/m³						0.28 U	1.8 J	0.28 U	0.28 U	-	0.28 U	0.28 U	0.28 U	0.56 J	1.6 J	1.5 J
N-Undecane	µg/m³						0.84 J	0.40 U	0.79 J	0.40 U	-	0.40 J	0.81 J	0.51 J	2.6 J	3.6 J	8.2 J
Octane	µg/m³						0.17 U	0.43 J	0.40 J	0.36 J	-	0.24 J	0.36 J	0.66 J	0.55 J	0.63 J	0.57 J

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5171, Bldg 4*	*Parcel 5171, Bldg 4*	*Parcel 5171, Bldg 4*	*Parcel 5172, Bldg 2*	*Parcel 5172, Bldg 3*	*Parcel 5174, Outdoor Air*	*Parcel 5175*	*Parcel 3207, Bldg 1, IA_A*	*Parcel 3207, Bldg 1, Cubicles*	*Parcel 3207, Bldg 1, IA_D*	*Parcel 3207, Bldg 1, IA_D*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*CS-38443-080712-GL-069*	*OA-38443-080712-GL-070*	*OA-38443-080712-GL-071*	*OA-38443-080212-GL-037*	*-*	*OA-38443-080312-GL-047*	*OA-38443-080112-GL-023*	*IA-38443-081112-GL-078*	*IA-38443-081112-GL-081*	*IA-38443-081112-GL-079*	*IA-38443-081112-GL-080*
Sample Date:							*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/7/2012*	*8/3/2012*	*8/1/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*	*8/11/2012*
Sample Type:		ELCR	HI	ELCR	HI				*Duplicate*								*Duplicate*
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	0.48 J	0.66 J	0.64 J	0.27 J	-	0.28 J	1.0	1.4	1.3 J	1.3	1.2 J
Pentane	µg/m^3		4400		44000		2.7 J	2.3 J	2.2 J	2.4 J	-	1.6 J	1.5 J	18	24	17	21
Styrene	µg/m^3		4400		44000		0.25 U	0.65 J	0.39 J	0.25 U	-	0.25 U	0.26 J	0.28 J	1.3 J	2.3	2.2
tert-Butyl alcohol	µg/m^3						0.12 U	0.26 J	0.12 U	0.12 U	-	0.12 U	0.52 J	0.77 J	0.82 J	0.33 J	1.3 J
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.36 U	0.36 U	-	0.36 U	0.36 U	0.36 U	0.72 U	0.36 U	0.72 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	1.3 J	0.28 J	0.33 J	0.27 U	-	0.27 U	0.27 U	0.27 U	0.54 U	0.27 U	0.54 U
Tetrahydrofuran	µg/m^3						0.23 J	0.29 J	0.23 J	0.19 U	-	0.19 U	0.19 U	0.19 U	0.37 U	0.19 U	0.37 U
Toluene	µg/m^3		22000		220000		2.6	4.1	3.3	3.2	-	4.3	3.6	2.5	3.0	3.8	3.8
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	0.20 U	0.20 U	0.20 U	-	0.20 U	0.20 U	0.20 U	0.40 U	0.20 U	0.40 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		0.22 U	0.22 U	0.22 U	0.22 U	-	0.22 U	0.22 U	0.22 U	0.44 U	0.22 U	0.44 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	5.1	0.19 U	0.27 J	0.19 U	-	0.19 U	0.86 J	0.19 U	0.39 U	0.19 U	0.50 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		1.5	2.1	1.5	1.6	-	2.8	1.9	1.2	1.5 J	1.3	1.7 J
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.62 J	0.54 J	0.56 J	0.54 J	-	0.58 J	0.68 J	0.56 J	0.62 J	0.55 J	0.63 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	0.15 U	0.15 U	0.15 U	-	0.15 U	0.15 U	0.15 U	0.31 U	0.15 U	0.31 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	0.18 U	0.18 U	0.18 U	-	0.18 U	0.18 U	0.48 J	0.65 J	0.26 J	0.36 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						0.23 U	0.21 U	0.22 U	0.23 U	-	0.24 U	0.22 U	0.23 U	0.21 U	0.23 U	0.22 U
Ethene	%						0.23 U	0.21 U	0.22 U	0.23 U	-	0.24 U	0.22 U	0.23 U	0.21 U	0.23 U	0.22 U
Methane	%	0.05	0.05	0.05	0.05	0.05	0.20 U	0.19 U	0.19 U	0.21 U	-	0.21 U	0.20 U	0.21 U	0.19 U	0.21 U	0.19 U
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0	0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon																	
Radon-222	pCi/L						-	-	-	-	-	-	-	-	-	-	-

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_D*	*Parcel 3207, Bldg 2, IA_D*	*Parcel 3207, Bldg 2, IA_F*	*Parcel 3207, Bldg 2, IA_F*	*Parcel 5054, Bldg 1, IA*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA Basement*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*IAR-38443-081012-GL-014*	*IA-38443-081112-GL-084*	*IAR-38443-081012-GL-016*	*IA-38443-081112-GL-087*	*IAR-38443-081012-GL-018*	*IA-38443-081112-GL-089*	*IAR-38443-081012-GL-020*	*IA-38443-081112-GL-094*	*IA-38443-080612-GL-056*	*IA-38443-080612-GL-050*	*IA-38443-080612-GL-049*
Sample Date:							*8/10/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/6/2012*	*8/6/2012*	*8/6/2012*
Sample Type:		ELCR	HI	ELCR	HI												
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m^3		1		1		-	1	-	0	-	0	-	0	5[bd]	0	-
Total Risk	µg/m^3	1E-5		1E-5		1E-5	-	5E-06	-	6E-06	-	4E-06	-	6E-06	2E-05[ace]	5E-06	-
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m^3		22000		220000		-	0.16 U	-	0.20 J	-	0.16 U	-	0.16 U	0.17 J	0.16 U	-
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			-	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U	0.42 U	0.42 U	-
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		-	0.29 U	-	0.29 U	-	0.29 U	-	0.29 U	0.29 U	0.29 U	-
1,1-Dichloroethane	µg/m^3	77		770		63	-	0.11 U	-	0.11 U	-	0.11 U	-	0.11 U	0.11 U	0.11 U	-
1,1-Dichloroethene	µg/m^3		880		8800		-	0.13 U	-	0.13 U	-	0.13 U	-	0.13 U	0.13 U	0.13 U	-
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		-	0.73 UJ	-	0.73 UJ	-	0.73 UJ	-	0.73 U	0.73 UJ	0.73 UJ	-
1,2,4-Trimethylbenzene	µg/m^3		31		310		-	6.7	-	5.2	-	2.8	-	5.8	0.78 J	6.2	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.2	39	2	390		-	0.34 U	-	0.34 U	-	0.34 U	-	0.34 U	0.34 U	0.34 U	-
1,2-Dichlorobenzene	µg/m^3		880		8800		-	0.42 U	-	0.42 U	-	0.42 U	-	0.42 U	0.42 U	0.42 U	-
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		-	0.19 U	-	0.19 U	-	0.27 J	-	0.19 U	0.19 U	0.19 U	-
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	0.24 U	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	0.22 U	0.22 U	-
1,3,5-Trimethylbenzene	µg/m^3						-	1.1	-	1.0	-	0.61 J	-	1.3	0.48 J	2.4	-
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		-	0.14 U	-	0.14 U	-	0.14 U	-	0.14 U	0.14 U	0.14 U	-
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		-	0.39 U	-	0.39 U	-	0.39 U	-	0.39 U	0.39 U	0.39 U	-
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		-	0.38 U	-	0.38 U	-	0.38 U	-	0.38 U	0.38 U	0.38 U	-
1,4-Dioxane	µg/m^3	16	13000	160	130000		-	0.29 U	-	0.29 U	-	0.29 U	-	0.29 U	0.29 J	0.29 U	-
2,2,4-Trimethylpentane	µg/m^3						-	0.36 J	-	0.50 J	-	0.33 J	-	0.75 J	18	2.4	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		-	3.9	-	5.9	-	4.4	-	5.3	4.4	3.0	-
2-Chlorotoluene	µg/m^3						-	0.33 U	-	0.33 U	-	0.33 U	-	0.33 U	0.33 U	0.33 U	-
2-Hexanone	µg/m^3		130		1300		-	0.43 J	-	0.71 J	-	0.50 J	-	0.49 J	1.1 J	0.24 U	-
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						-	0.37 J	-	0.35 U	-	0.35 U	-	0.35 U	0.35 U	0.35 U	-
4-Ethyl toluene	µg/m^3						-	1.2 J	-	1.2 J	-	0.77 J	-	2.1	0.82 J	2.5	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		130000		-	60	-	24	-	13	-	15	0.88 J	0.64 J	-
Acetone	µg/m^3		140000		1400000		-	60	-	110	-	140	-	51	56	60	-
Allyl chloride	µg/m^3	20	4.4	200	44		-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	0.15 U	0.15 U	-
Benzene	µg/m^3	16	130	160	1300	4	-	0.72	-	1.2	-	0.77	-	2.2	0.72	1.9	-
Benzyl chloride	µg/m^3	2.5	4.4	25	44		-	0.40 U	-	0.40 U	-	0.40 U	-	0.40 U	0.40 U	0.40 U	-
Bromodichloromethane	µg/m^3	3.3		33			-	0.29 U	-	0.29 U	-	0.29 U	-	0.29 U	0.29 U	0.29 U	-
Bromoform	µg/m^3	110		1,100			-	0.50 U	-	0.50 U	-	0.50 U	-	0.50 U	0.50 U	0.50 U	-
Bromomethane (Methyl bromide)	µg/m^3		22		220		-	0.12 U	-	0.12 U	-	0.12 U	-	0.12 U	0.36 J	0.12 U	-
Butane	µg/m^3						-	5.0	-	11	-	23	-	16	9.2	5.7	-
Carbon disulfide	µg/m^3		3100		31000		-	0.48 J	-	0.58 J	-	0.49 J	-	0.49 J	1.1 J	0.15 J	-
Carbon tetrachloride	µg/m^3	20	440	200	4400		-	0.47 J	-	0.45 J	-	0.50 J	-	0.42 J	0.55 J	0.48 J	-
Chlorobenzene	µg/m^3		220		2200		-	0.23 U	-	0.23 U	-	0.23 U	-	0.23 U	0.23 U	0.23 U	-
Chlorodifluoromethane	µg/m^3		220000		2200000		-	8.9	-	25	-	96	-	21	73	1.1	-
Chloroethane	µg/m^3		44000		440000		-	0.092 U	-	0.092 U	-	0.092 U	-	0.092 U	0.40 J	0.10 J	-
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	400	-	0.19 U	-	0.19 J	-	0.39 J	-	0.20 J	0.29 J	0.19 U	-
Chloromethane (Methyl chloride)	µg/m^3		390		3900		-	1.5	-	1.2	-	1.7	-	1.2	3.7	1.3	-
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	150	-	0.24 U	-	0.24 U	-	0.24 U	-	0.24 U	0.95	0.24 U	-
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		-	0.34 U	-	0.34 U	-	0.34 U	-	0.34 U	0.34 U	0.34 U	-
Cyclohexane	µg/m^3		26000		260000		-	2.7	-	4.2	-	4.9	-	4.6	1.7 J	2.4	-
Cymene (p-Isopropyltoluene)	µg/m^3						-	1.2	-	0.81 J	-	0.54 J	-	0.54 J	2.0	0.31 U	-
Dibromochloromethane	µg/m^3	4.5		45			-	0.36 U	-	0.36 U	-	0.36 U	-	0.36 U	0.36 U	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		-	2.4	-	2.3	-	2.1	-	2.2	2.9	2.4	-
Ethylbenzene	µg/m^3	49	4400	490	44000	1300	-	14	-	12	-	6.3	-	10	8.6	8.6	-
Hexachlorobutadiene	µg/m^3	5.6		56			-	0.83 UJ	-	0.83 UJ	-	0.83 UJ	-	0.83 U	0.83 UJ	0.83 UJ	-
Hexane	µg/m^3		3100		31000		-	1.5 J	-	2.9	-	1.7 J	-	5.6	1.4 J	3.1	-
Isopropyl alcohol	µg/m^3						-	24	-	45	-	150	-	32	8.6	11	-
Isopropyl benzene	µg/m^3		1800		18000		-	0.57 J	-	0.67 J	-	0.36 J	-	0.54 J	0.83 J	0.59 J	-
m&p-Xylenes	µg/m^3		440		4400	800	-	50	-	34	-	16	-	32	26	27	-
Methyl methacrylate	µg/m^3		3100		31000		-	0.32 U	-	0.32 U	-	0.32 U	-	0.48 J	0.32 U	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		-	0.61 U	-	0.61 U	-	0.61 U	-	0.61 U	0.61 U	0.61 U	-
Methylene chloride	µg/m^3	12,000	2600	120,000	26000		-	0.87 U	-	1.8	-	0.87 U	-	2.2	2.7	2.2	-
Naphthalene	µg/m^3	3.6	13	36	130	15.2	-	0.50 J	-	0.67 J	-	0.47 UJ	-	0.78 J	0.47 UJ	0.62 J	-
N-Butylbenzene	µg/m^3						-	0.27 J	-	0.34 J	-	0.25 U	-	0.44 J	0.25 U	0.46 J	-
N-Decane	µg/m^3						-	1.8 J	-	4.3 J	-	2.1 J	-	4.3 J	1.7 J	4.6 J	-
N-Dodecane	µg/m^3						-	3.3 J	-	6.4 J	-	0.54 U	-	6.0 J	1.9 J	2.7 J	-
N-Heptane	µg/m^3						-	3.0	-	6.7	-	4.7	-	13	6.9	11	-
Nonane	µg/m^3		880		8800		-	0.65 J	-	1.0 J	-	0.89 J	-	1.2 J	1.1 J	3.1	-
N-Propylbenzene	µg/m^3						-	0.75 J	-	0.85 J	-	0.51 J	-	1.2 J	0.63 J	1.4 J	-
N-Undecane	µg/m^3						-	4.6 J	-	12	-	2.0 J	-	9.4	2.3 J	4.7 J	-
Octane	µg/m^3						-	0.56 J	-	0.97 J	-	0.85 J	-	1.8 J	4.1	4.8	-

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_A*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_C*	*Parcel 3207, Bldg 2, IA_D*	*Parcel 3207, Bldg 2, IA_D*	*Parcel 3207, Bldg 2, IA_F*	*Parcel 3207, Bldg 2, IA_F*	*Parcel 5054, Bldg 1, IA*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA Basement*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*IAR-38443-081012-GL-014*	*IA-38443-081112-GL-084*	*IAR-38443-081012-GL-016*	*IA-38443-081112-GL-087*	*IAR-38443-081012-GL-018*	*IA-38443-081112-GL-089*	*IAR-38443-081012-GL-020*	*IA-38443-081112-GL-094*	*IA-38443-080612-GL-056*	*IA-38443-080612-GL-050*	*IA-38443-080612-GL-049*
Sample Date:							*8/10/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/10/2012*	*8/11/2012*	*8/6/2012*	*8/6/2012*	*8/6/2012*
Sample Type:		ELCR	HI	ELCR	HI												
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	-	28	-	16	-	7.5	-	14	6.5	7.5	-
Pentane	µg/m^3		4400		44000		-	4.2	-	8.1	-	5.4	-	15	4.7	2.9	-
Styrene	µg/m^3		4400		44000		-	19	-	13	-	4.4	-	9.1	0.46 J	0.54 J	-
tert-Butyl alcohol	µg/m^3						-	2.2 J	-	2.0 J	-	0.74 J	-	0.97 J	0.57 J	0.36 J	-
tert-Butylbenzene	µg/m^3						-	0.36 U	-	0.36 U	-	0.36 U	-	0.36 U	0.36 U	0.36 U	-
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	-	1.5	-	3.0	-	1.6	-	1.6	1.7	0.47 J	-
Tetrahydrofuran	µg/m^3						-	1.0 J	-	0.76 J	-	0.36 J	-	2.1 J	0.98 J	0.19 U	-
Toluene	µg/m^3		22000		220000		-	30	-	54	-	31	-	110	18	24	-
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	0.20 U	-	0.20 U	-	0.20 U	-	0.20 U	0.20 U	0.20 U	-
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		-	0.22 U	-	0.22 U	-	0.22 U	-	0.22 U	0.22 U	0.22 U	-
Trichloroethene	µg/m^3	30	8.8	300	88	10	-	0.29 J	-	0.65 J	-	2.0	-	0.35 J	44[abc]	0.35 J	-
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	1.3	-	1.5	-	1.2	-	1.2	1.9	1.4	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	0.60 J	-	0.56 J	-	0.53 J	-	0.53 J	0.62 J	0.56 J	-
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		-	0.15 U	-	0.15 U	-	0.15 U	-	0.15 U	0.15 U	0.15 U	-
Vinyl chloride	µg/m^3	28	440	280	4400	4	-	0.18 U	-	0.18 U	-	0.18 U	-	0.18 U	0.18 U	0.18 U	-
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						-	0.21 U	-	0.22 U	-	0.22 U	-	0.21 U	0.23 U	0.22 U	-
Ethene	%						-	0.21 U	-	0.22 U	-	0.22 U	-	0.21 U	0.23 U	0.22 U	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	0.19 U	-	0.20 U	-	0.20 U	-	0.19 U	0.21 U	0.20 U	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	-	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon																	
Radon-222	pCi/L						2.3 +/-0.2	-	2.8 +/-0.2	-	2.0 +/-0.2	-	2.0 +/-0.1	-	-	-	-

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*Parcel 5054, Bldg 5, IA*	*Parcel 5171, Bldg 1, IA_A*	*Parcel 5171, Bldg 1, IA_C*	*Parcel 5171, Bldg 1, IA_C*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_Office*	*Parcel 5172, Bldg 2, IA_A*	*Parcel 5172, Bldg 2, IA_B*	*Parcel 5172, Bldg 2, IA_C*
Sample ID:							*IA-38443-080612-GL-054*	*IAR-38443-080612-GL-008*	*IAR-38443-080612-GL-010*	*IA-38443-080712-GL-064*	*IAR-38443-080612-GL-012*	*IA-38443-080712-GL-067*	*IA-38443-080712-GL-068*	*IA-38443-080712-GL-061*	*IA-38443-080212-GL-032*	*IA-38443-080212-GL-034*	*IA-38443-080212-GL-036*
Sample Date:							*8/6/2012*	*8/6/2012*	*8/6/2012*	*8/7/2012*	*8/6/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/2/2012*	*8/2/2012*
Sample Type:		ELCR	HI	ELCR	HI								*Duplicate*				
	Units	*a*	*b*	*c*	*d*	*e*											
Cumulative Risk																	
Total HI	µg/m³		1		1		1	-	-	0	-	1	-	1	1	1	1
Total Risk	µg/m³	1E-5		1E-5		1E-5	2E-06	-	-	2E-06	-	1E-05	-	5E-06	2E-05[ace]	2E-05[ace]	2E-05[ace]
Volatile Organic Compounds																	
1,1,1-Trichloroethane	µg/m³		22000		220000		0.16 U	-	-	0.16 U	-	0.16 U	0.16 U	0.16 U	3.1	3.1	2.9
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			0.42 U	-	-	0.42 U	-	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	0.84 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		0.29 U	-	-	0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.59 U	0.59 U
1,1-Dichloroethane	µg/m³	77		770		63	0.11 U	-	-	0.11 U	-	0.11 U	0.11 U	0.11 U	0.19 J	0.22 J	0.21 U
1,1-Dichloroethene	µg/m³		880		8800		0.13 U	-	-	0.13 U	-	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.25 U
1,2,4-Trichlorobenzene	µg/m³		8.8		88		0.73 UJ	-	-	0.73 U	-	0.73 UJ	0.73 UJ	0.73 U	0.73 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	µg/m³		31		310		1.4	-	-	1.6	-	3.5 J	7.3 J	4.0	10	8.0	7.0
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		0.34 U	-	-	0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.68 U	0.68 U
1,2-Dichlorobenzene	µg/m³		880		8800		0.42 U	-	-	0.55 J	-	0.42 U	0.70 J	0.42 U	0.42 U	0.84 U	0.84 U
1,2-Dichloroethane	µg/m³	4.7	31	47	310		0.19 U	-	-	0.19 U	-	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.38 U
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		0.24 U	-	-	0.24 U	-	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.48 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	-	-	0.22 U	-	0.22 U	0.22 U	0.84 J	0.22 U	0.45 U	0.45 U
1,3,5-Trimethylbenzene	µg/m³						0.45 J	-	-	0.78 J	-	1.1	1.8	1.1	2.9	2.4	0.64 U
1,3-Butadiene	µg/m³	4.1	8.8	41	88		0.14 U	-	-	0.14 U	-	0.14 U	0.14 U	0.14 U	3.2	3.8	3.5
1,3-Dichlorobenzene[a]	µg/m³	11	3500	110	35000		0.39 U	-	-	0.39 U	-	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.78 U
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		1.1 J	-	-	0.38 U	-	0.38 U	0.62 J	0.38 U	0.50 J	0.77 U	0.77 U
1,4-Dioxane	µg/m³	16	13000	160	130000		0.29 U	-	-	0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.58 U	0.58 U
2,2,4-Trimethylpentane	µg/m³						0.22 J	-	-	2.4	-	3.6	2.9	1.3 J	1.5 J	1.4 J	1.4 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		2.6 J	-	-	5.2	-	44	31	14	24	36	21
2-Chlorotoluene	µg/m³						0.33 U	-	-	0.33 U	-	0.33 U	0.33 U	0.33 U	0.33 U	0.65 U	0.65 U
2-Hexanone	µg/m³		130		1300		0.43 J	-	-	0.24 U	-	0.34 J	0.43 J	0.24 U	0.42 J	0.48 U	0.48 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	-	-	0.35 U	-	0.35 U	0.35 U	0.35 U	0.35 U	0.70 U	0.70 U
4-Ethyl toluene	µg/m³						0.43 J	-	-	0.75 J	-	2.2	2.5	1.6 J	2.7	2.4 J	0.65 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		1.0 J	-	-	1.5 J	-	7.1	6.1	3.3	8.1	6.5	7.1
Acetone	µg/m³		140000		1400000		22	-	-	30 J	-	59	75	35 J	83 J	76 J	74 J
Allyl chloride	µg/m³	20	4.4	200	44		0.15 U	-	-	0.15 U	-	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.30 U
Benzene	µg/m³	16	130	160	1300	4	0.72	-	-	1.4	-	3.1	2.5	1.3	7.7[e]	6.7[e]	6.4[e]
Benzyl chloride	µg/m³	2.5	4.4	25	44		0.40 U	-	-	0.40 U	-	0.40 U	0.40 U	0.40 U	0.40 U	0.81 U	0.81 U
Bromodichloromethane	µg/m³	3.3		33			0.29 U	-	-	0.29 U	-	0.29 U	0.29 U	0.29 U	0.29 U	0.59 U	0.59 U
Bromoform	µg/m³	110		1,100			0.50 U	-	-	0.50 U	-	0.50 U	0.50 U	0.50 U	0.50 U	0.99 U	0.99 U
Bromomethane (Methyl bromide)	µg/m³		22		220		0.12 U	-	-	0.12 U	-	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.25 U
Butane	µg/m³						4.6	-	-	8.0	-	29	23	9.1	17	18	15
Carbon disulfide	µg/m³		3100		31000		0.16 J	-	-	0.097 U	-	0.50 J	0.14 J	0.097 U	0.93 J	0.86 J	0.84 J
Carbon tetrachloride	µg/m³	20	440	200	4400		0.43 J	-	-	0.41 J	-	0.65 J	0.53 J	0.41 J	0.77 J	0.71 J	0.78 J
Chlorobenzene	µg/m³		220		2200		0.23 U	-	-	0.23 U	-	0.23 U	0.23 U	0.23 U	0.23 U	0.45 U	0.45 U
Chlorodifluoromethane	µg/m³		220000		2200000		1.3	-	-	1.5	-	0.13 U	2.1	1.5	2.1	2.2	2.3
Chloroethane	µg/m³		44000		440000		0.092 U	-	-	0.092 U	-	0.092 U	0.092 U	0.092 U	0.092 U	0.18 U	0.18 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	0.19 U	-	-	0.19 U	-	0.44 J	0.33 J	0.21 J	0.73 J	0.87 J	0.75 J
Chloromethane (Methyl chloride)	µg/m³		390		3900		1.3	-	-	1.2	-	1.5	1.8	1.1	3.9	4.7	3.6
cis-1,2-Dichloroethene[b]	µg/m³		260		2600	150	0.24 U	-	-	0.24 U	-	0.24 U	0.99	0.24 U	0.24 U	0.48 U	0.48 U
cis-1,3-Dichloropropene[c]	µg/m³	31	88	310	880		0.34 U	-	-	0.34 U	-	0.34 U	0.34 U	0.34 U	0.34 U	0.67 U	0.67 U
Cyclohexane	µg/m³		26000		260000		0.68 J	-	-	2.1	-	3.1	2.4	1.3 J	1.3 J	1.7 J	1.4 J
Cymene (p-Isopropyltoluene)	µg/m³						11	-	-	0.31 U	-	0.31 U	0.32 J	0.31 U	1.1	0.80 J	0.90 J
Dibromochloromethane	µg/m³	4.5		45			0.36 U	-	-	0.36 U	-	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	0.72 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		2.4	-	-	2.1	-	3.6	2.9	4.0	3.2	3.4	3.5
Ethylbenzene	µg/m³	49	4400	490	44000	1300	84[e]	-	-	5.0	-	41	33	16	5.0	4.1	3.5
Hexachlorobutadiene	µg/m³	5.6		56			0.83 UJ	-	-	0.83 U	-	0.83 UJ	0.83 UJ	0.83 U	0.83 U	1.7 U	1.7 U
Hexane	µg/m³		3100		31000		1.9	-	-	3.9	-	9.9	9.9	3.5	4.2	4.2	3.5
Isopropyl alcohol	µg/m³						4.1 J	-	-	3.4 J	-	12	6.6	5.1	23	25	25
Isopropyl benzene	µg/m³		1800		18000		1.4 J	-	-	0.37 J	-	0.81 J	0.67 J	0.43 J	0.65 J	0.59 U	0.59 U
m&p-Xylenes	µg/m³		440		4400	800	330	-	-	16	-	160	140	67	19	15	14
Methyl methacrylate	µg/m³		3100		31000		0.32 U	-	-	0.32 U	-	0.57 J	0.44 J	0.34 J	1.6 J	1.4 J	1.5 J
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		0.61 U	-	-	0.61 U	-	0.61 U	0.61 U	0.61 U	0.61 U	1.2 U	1.2 U
Methylene chloride	µg/m³	12,000	2600	120,000	26000		6.1	-	-	2.8	-	2.6 J	9.3 J	3.2	2.0 U	1.8 U	1.4 U
Naphthalene	µg/m³	3.6	13	36	130	15.2	0.47 UJ	-	-	0.47 U	-	0.47 UJ	0.50 J	0.47 U	1.9 J	1.8 J	0.94 U
N-Butylbenzene	µg/m³						3.7	-	-	0.25 U	-	0.25 U	0.56 J	0.39 J	0.55 J	0.51 U	0.51 U
N-Decane	µg/m³						88	-	-	95	-	40 J	80 J	57	3.2 J	2.7 J	2.3 J
N-Dodecane	µg/m³						39	-	-	0.62 J	-	0.54 U	3.2 J	5.0 J	5.2 J	5.4 J	2.5 J
N-Heptane	µg/m³						0.54 J	-	-	3.7	-	4.7	3.8	1.8 J	11	17	11
Nonane	µg/m³		880		8800		180	-	-	120	-	59	60	38	1.3 J	1.3 J	1.1 J
N-Propylbenzene	µg/m³						0.47 J	-	-	0.55 J	-	1.4 J	1.4 J	0.85 J	1.0 J	0.81 J	0.71 J
N-Undecane	µg/m³						110	-	-	14	-	6.6 J	27 J	24	13	11 J	9.8 J
Octane	µg/m³						7.8	-	-	7.2	-	7.8	6.6	3.4	2.4	3.0 J	2.2 J

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*Parcel 5054, Bldg 5, IA*	*Parcel 5171, Bldg 1, IA_A*	*Parcel 5171, Bldg 1, IA_C*	*Parcel 5171, Bldg 1, IA_C*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_F*	*Parcel 5171, Bldg 1, IA_Office*	*Parcel 5172, Bldg 2, IA_A*	*Parcel 5172, Bldg 2, IA_B*	*Parcel 5172, Bldg 2, IA_C*
Sample ID:							*IA-38443-080612-GL-054*	*IAR-38443-080612-GL-008*	*IAR-38443-080612-GL-010*	*IA-38443-080712-GL-064*	*IAR-38443-080612-GL-012*	*IA-38443-080712-GL-067*	*IA-38443-080712-GL-068*	*IA-38443-080712-GL-061*	*IA-38443-080212-GL-032*	*IA-38443-080212-GL-034*	*IA-38443-080212-GL-036*
Sample Date:							*8/6/2012*	*8/6/2012*	*8/6/2012*	*8/7/2012*	*8/6/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/2/2012*	*8/2/2012*	*8/2/2012*
Sample Type:		ELCR	HI	ELCR	HI								*Duplicate*				
	Units	*a*	*b*	*c*	*d*	*e*											
o-Xylene	µg/m^3		440		4400	800	95	-	-	4.9	-	37	37	19	7.6	6.2	5.4
Pentane	µg/m^3		4400		44000		1.4 J	-	-	10	-	33	28	11	44	56	76
Styrene	µg/m^3		4400		44000		0.25 U	-	-	0.25 U	-	2.6	3.5	2.3	2.6	2.3	2.0
tert-Butyl alcohol	µg/m^3						4.2 J	-	-	0.14 J	-	0.74 J	1.6 J	0.45 J	2.9 J	2.5 J	3.0 J
tert-Butylbenzene	µg/m^3						0.36 U	-	-	0.36 U	-	0.36 U	0.36 U	0.50 J	0.36 U	0.72 U	0.72 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	0.27 U	-	-	0.42 J	-	0.88 J	0.52 J	0.27 U	0.37 J	0.54 U	0.54 U
Tetrahydrofuran	µg/m^3						0.22 J	-	-	1.1 J	-	0.32 J	0.27 J	0.87 J	0.19 U	0.37 U	0.37 U
Toluene	µg/m^3		22000		220000		58	-	-	10	-	39	33	15	130	220	130
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	-	-	0.20 U	-	0.46 J	0.35 J	0.20 U	1.4	1.7	1.7
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		0.22 U	-	-	0.22 U	-	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.44 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	0.60 J	-	-	0.64 J	-	5.2	4.8	1.5	0.23 J	0.39 U	0.42 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		2.7	-	-	1.3	-	2.1	3.1	2.0	2.6	2.7	2.6
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.52 J	-	-	0.53 J	-	0.71 J	0.60 J	0.50 J	7.6	8.8	7.4
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	-	-	0.15 U	-	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	0.31 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	-	-	0.18 U	-	0.18 U	0.18 U	0.18 U	0.18 U	0.36 U	0.36 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																	
Ethane	%						0.22 U	-	-	0.21 U	-	0.24 U	0.21 U	0.24 U	0.23 U	0.21 U	0.21 U
Ethene	%						0.22 U	-	-	0.21 U	-	0.24 U	0.21 U	0.24 U	0.23 U	0.21 U	0.21 U
Methane	%	0.05	0.05	0.05	0.05	0.05	0.20 U	-	-	0.19 U	-	0.21 U	0.19 U	0.22 U	0.21 U	0.19 U	0.19 U
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	-	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon																	
Radon-222	pCi/L						-	0.29 +/-0.08	0.37 +/-0.06	-	0.40 +/-0.70	-	-	-	-	-	-

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172, Bldg 3, IA*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5175, Bldg 1, IA_A*	*Parcel 5175, Bldg 1, IA_B*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*IAR-38443-080712-GL-014*	*IAR-38443-080212-GL-002*	*IA-38443-080312-GL-039*	*IAR-38443-080212-GL-004*	*IA-38443-080312-GL-043*	*IAR-38443-080212-GL-006*	*IA-38443-080312-GL-046*	*IA-38443-080112-GL-022*	*IA-38443-080112-GL-021*
Sample Date:							*8/7/2012*	*8/2/2012*	*8/3/2012*	*8/2/2012*	*8/3/2012*	*8/2/2012*	*8/3/2012*	*8/1/2012*	*8/1/2012*
Sample Type:		ELCR	HI	ELCR	HI										
	Units	*a*	*b*	*c*	*d*	*e*									
Cumulative Risk															
Total HI	µg/m^3		1		1		-	-	1	-	0	-	31[bd]	0	0
Total Risk	µg/m^3	1E-5		1E-5		1E-5	-	-	1E-05	-	4E-06	-	9E-05[ace]	2E-06	4E-06
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/m^3		22000		220000		-	-	0.16 U	-	0.33 U	-	11	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			-	-	0.42 U	-	0.84 U	-	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		-	-	0.29 U	-	0.59 U	-	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	77		770		63	-	-	0.11 U	-	0.35 J	-	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3		880		8800		-	-	0.13 U	-	0.25 U	-	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		-	-	0.73 UJ	-	1.5 UJ	-	0.73 U	0.73 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3		31		310		-	-	18	-	0.62 U	-	0.31 U	0.31 U	3.1
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.2	39	2	390		-	-	0.34 U	-	0.68 U	-	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3		880		8800		-	-	0.42 U	-	0.84 U	-	0.42 U	0.42 U	1.7
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		-	-	1.5	-	8.1[a]	-	0.19 U	0.47 J	0.19 U
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		-	-	0.33 J	-	0.48 U	-	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						-	-	0.22 U	-	0.45 U	-	0.75 J	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3						-	-	5.5	-	0.64 U	-	0.32 U	0.32 U	0.50 J
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		-	-	0.14 U	-	0.28 U	-	0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		-	-	0.39 U	-	0.78 U	-	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		-	-	0.38 U	-	0.77 U	-	0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	16	13000	160	130000		-	-	1.1 J	-	1.4 J	-	0.29 U	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3						-	-	1.8 J	-	1.8 J	-	0.18 U	0.18 U	0.23 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		-	-	87	-	130	-	1.9 J	1.2 J	3.0
2-Chlorotoluene	µg/m^3						-	-	0.33 U	-	0.65 U	-	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m^3		130		1300		-	-	0.48 J	-	0.48 U	-	0.24 U	0.24 UJ	0.36 J
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						-	-	0.51 J	-	0.70 U	-	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3						-	-	4.3	-	0.65 U	-	0.32 U	0.32 U	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		130000		-	-	1.0 J	-	0.43 J	-	0.18 U	0.18 U	0.18 U
Acetone	µg/m^3		140000		1400000		-	-	88	-	160	-	6.2 J	9.2 J	21 J
Allyl chloride	µg/m^3	20	4.4	200	44		-	-	0.15 U	-	0.30 U	-	0.15 U	0.15 U	0.15 U
Benzene	µg/m^3	16	130	160	1300	4	-	-	1.6	-	1.3	-	0.18 U	0.29 J	0.54 J
Benzyl chloride	µg/m^3	2.5	4.4	25	44		-	-	0.40 U	-	0.81 U	-	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	3.3		33			-	-	0.29 U	-	0.59 U	-	0.29 U	0.29 U	0.29 U
Bromoform	µg/m^3	110		1,100			-	-	0.50 U	-	0.99 U	-	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3		22		220		-	-	0.12 U	-	0.25 U	-	0.12 U	0.12 U	0.12 U
Butane	µg/m^3						-	-	4.1	-	3.7	-	0.36 J	1.5	1.6
Carbon disulfide	µg/m^3		3100		31000		-	-	1.7	-	0.80 J	-	1.3 J	0.097 U	0.11 J
Carbon tetrachloride	µg/m^3	20	440	200	4400		-	-	0.47 J	-	0.48 J	-	0.86 J	0.59 J	0.61 J
Chlorobenzene	µg/m^3		220		2200		-	-	0.23 U	-	0.45 U	-	0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3		220000		2200000		-	-	1.9	-	1.8	-	27	1.3	1.4
Chloroethane	µg/m^3		44000		440000		-	-	0.092 U	-	0.34 J	-	0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	400	-	-	0.19 U	-	0.37 U	-	0.19 U	0.19 U	0.21 J
Chloromethane (Methyl chloride)	µg/m^3		390		3900		-	-	1.6	-	1.7 J	-	0.34 J	2.0	1.5
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	150	-	-	0.24 U	-	0.48 U	-	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		-	-	0.34 U	-	0.67 U	-	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m^3		26000		260000		-	-	9.2	-	11	-	0.14 U	0.24 J	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3						-	-	0.79 J	-	0.63 U	-	0.31 U	0.31 U	0.53 J
Dibromochloromethane	µg/m^3	4.5		45			-	-	0.36 U	-	0.72 U	-	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		-	-	2.4	-	2.4	-	2.6	3.0	3.0
Ethylbenzene	µg/m^3	49	4400	490	44000	1300	-	-	13	-	4.5	-	0.30 U	0.30 U	0.58 J
Hexachlorobutadiene	µg/m^3	5.6		56			-	-	0.83 UJ	-	1.7 UJ	-	0.83 U	0.83 UJ	0.83 UJ
Hexane	µg/m^3		3100		31000		-	-	50	-	240	-	1.9	0.65 J	0.66 J
Isopropyl alcohol	µg/m^3						-	-	2.5 J	-	2.6 J	-	0.64 J	1.0 J	2.1 J
Isopropyl benzene	µg/m^3		1800		18000		-	-	0.84 J	-	0.59 U	-	0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m^3		440		4400	800	-	-	47	-	11	-	0.52 U	0.52 U	2.3
Methyl methacrylate	µg/m^3		3100		31000		-	-	0.32 U	-	0.65 U	-	0.32 U	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		-	-	0.61 U	-	1.2 U	-	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m^3	12,000	2600	120,000	26000		-	-	7.0	-	4.2	-	1.6 U	3.1	1.2 U
Naphthalene	µg/m^3	3.6	13	36	130	15.2	-	-	2.1 J	-	0.94 UJ	-	0.47 U	0.47 U	0.97 J
N-Butylbenzene	µg/m^3						-	-	1.1 J	-	0.51 U	-	0.25 U	0.25 U	0.73 J
N-Decane	µg/m^3						-	-	31 J	-	0.65 U	-	0.33 U	0.33 U	1.1 J
N-Dodecane	µg/m^3						-	-	2.4 J	-	1.1 UJ	-	0.54 U	0.54 U	2.2 J
N-Heptane	µg/m^3						-	-	23	-	11	-	0.19 U	0.19 U	0.48 J
Nonane	µg/m^3		880		8800		-	-	22	-	3.2 J	-	0.23 U	0.23 U	0.40 J
N-Propylbenzene	µg/m^3						-	-	2.4	-	0.55 U	-	0.28 U	0.28 U	0.41 J
N-Undecane	µg/m^3						-	-	15	-	0.79 U	-	0.40 U	0.40 UJ	2.0 J
Octane	µg/m^3						-	-	4.6	-	10	-	0.17 U	0.17 U	0.23 J

TABLE 4.8

SUMMARY OF ROUND 2 INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 5172, Bldg 3, IA*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_A*	*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_C*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5174, Bldg 1, IA_E*	*Parcel 5175, Bldg 1, IA_A*	*Parcel 5175, Bldg 1, IA_B*
Sample ID:		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*IAR-38443-080712-GL-014*	*IAR-38443-080212-GL-002*	*IA-38443-080312-GL-039*	*IAR-38443-080212-GL-004*	*IA-38443-080312-GL-043*	*IAR-38443-080212-GL-006*	*IA-38443-080312-GL-046*	*IA-38443-080112-GL-022*	*IA-38443-080112-GL-021*
Sample Date:							*8/7/2012*	*8/2/2012*	*8/3/2012*	*8/2/2012*	*8/3/2012*	*8/2/2012*	*8/3/2012*	*8/1/2012*	*8/1/2012*
Sample Type:		ELCR	HI	ELCR	HI										
	Units	***a***	***b***	***c***	***d***	***e***									
o-Xylene	µg/m^3		440		4400	800	-	-	13	-	2.5	-	0.26 U	0.26 U	0.94
Pentane	µg/m^3		4400		44000		-	-	140	-	220	-	0.95 J	1.2 J	1.1 J
Styrene	µg/m^3		4400		44000		-	-	0.36 J	-	0.49 U	-	0.25 U	0.25 U	0.26 J
tert-Butyl alcohol	µg/m^3						-	-	0.81 J	-	0.64 J	-	0.17 J	0.14 J	0.44 J
tert-Butylbenzene	µg/m^3						-	-	0.36 U	-	0.72 U	-	0.36 U	0.36 U	0.37 J
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	-	-	0.27 U	-	1.6 J	-	12	0.27 U	0.27 U
Tetrahydrofuran	µg/m^3						-	-	0.84 J	-	0.57 J	-	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		22000		220000		-	-	170	-	380	-	1.9	0.33 J	2.7
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	-	0.20 U	-	0.40 U	-	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		-	-	0.22 U	-	0.44 U	-	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	-	-	0.27 J	-	0.39 U	-	270[bde]	0.33 J	0.97 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	-	3.4	-	2.4	-	8.4	2.1	1.8
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	-	0.60 J	-	0.62 J	-	0.61 J	0.62 J	0.58 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		-	-	0.15 U	-	0.31 U	-	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	-	-	0.68	-	3.0	-	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-
Fixed Gases															
Ethane	%						-	-	0.23 U	-	0.23 U	-	0.22 U	0.22 U	0.22 U
Ethene	%						-	-	0.23 U	-	0.23 U	-	0.22 U	0.22 U	0.22 U
Methane	%	0.05	0.05	0.05	0.05	0.05	-	-	0.21 U	-	0.21 U	-	0.20 U	0.20 U	0.20 U
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	-	-	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon															
Radon-222	pCi/L						2.3 +/-0.1	0.80 +/-0.17	-	0.89 +/-0.12	-	1.30 +/-0.15	-	-	-

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

CSSL - Crawl Space Screening Level

IASL - Indoor Air Screening Level

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

pCi/L - picoCuries per Liter

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

- - Not applicable.

The Industrial IASLs and CSSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air

The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The CSSLs were derived from the USEPA (May 2012) RSLs by applying default crawl-space-to-indoor-air attenuation factor of 1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

[ ] - Concentration was greater than applicable criteria.

TABLE 4.9

SUMMARY OF ROUND 2 RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Further Investigation		ODH Sub-slab soil vapor Residential	*SS-38443-080112-GL-025*	*SS-38443-080112-GL-026*	*SS-38443-080112-GL-024*
Sample Date:					*8/1/2012*	*8/1/2012*	*8/1/2012*
		ELCR	HI				
	Units	*a*	*b*	*c*			
Cumulative Risk							
Total HI	µg/m^3		1		0	0	0
Total Risk	µg/m^3	1E-5			4E-06	2E-06	2E-06
Volatile Organic Compounds							
1,1,1-Trichloroethane	µg/m^3		5200		62	1.3	7.9
1,1,2,2-Tetrachloroethane	µg/m^3	0.42			0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	1.5	0.21		0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m^3	15		150	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m^3		210		0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3		2.1		0.73 UJ	0.73 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3		7.3		1.7	0.31 U	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.041	9.4		0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m^3		210		0.42 U	0.42 U	0.42 U
1,2-Dichloroethane	µg/m^3	0.94	7.3		0.19 U	0.44 J	0.19 U
1,2-Dichloroethene (total)	µg/m^3				-	-	-
1,2-Dichloropropane	µg/m^3	2.4	4.2		0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				0.22 U	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m^3				0.32 U	0.32 U	0.32 U
1,3-Butadiene	µg/m^3	0.81	2.1		0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m^3	2.2	830		0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m^3	2.2	830		0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m^3	3.2	3100		0.29 U	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3				0.18 U	0.18 U	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		5200		0.89 J	1.0 J	0.99 J
2-Chlorotoluene	µg/m^3				0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m^3		31		0.24 U	0.24 U	0.24 UJ
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m^3				0.32 J	0.32 U	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m^3		3100		0.18 U	0.40 J	0.18 U
Acetone	µg/m^3		32000		9.1 J	7.2 J	4.9 J
Allyl chloride	µg/m^3	4.1	1		0.15 U	0.15 U	0.15 U
Benzene	µg/m^3	3.1	31	10	0.18 U	0.18 U	0.18 U
Benzyl chloride	µg/m^3	0.5	1		0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m^3	0.66			0.29 U	0.29 U	0.29 U

TABLE 4.9

SUMMARY OF ROUND 2 RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Further Investigation		ODH Sub-slab soil vapor Residential	*SS-38443-080112-GL-025*	*SS-38443-080112-GL-026*	*SS-38443-080112-GL-024*
Sample Date:					*8/1/2012*	*8/1/2012*	*8/1/2012*
		ELCR	HI				
	Units	*a*	*b*	*c*			
Bromoform	µg/m^3	22			0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3		5.2		0.12 U	0.12 U	0.12 U
Butane	µg/m^3				0.38 J	1.0 J	0.15 J
Carbon disulfide	µg/m^3		730		0.12 J	0.25 J	0.40 J
Carbon tetrachloride	µg/m^3	4.1	100		0.24 J	0.24 UJ	0.26 J
Chlorobenzene	µg/m^3		52		0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m^3		52000		1.1	1.0	4.7
Chloroethane	µg/m^3		10000		0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	1.1	100	1000	**2.1**[a]	0.59 J	0.25 J
Chloromethane (Methyl chloride)	µg/m^3		94		0.37 J	0.33 U	0.49 J
cis-1,2-Dichloroethene[b]	µg/m^3		63	350	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene[c]	µg/m^3	6.1	21		0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m^3		6300		0.14 U	0.49 J	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3				0.31 U	0.31 U	0.31 U
Dibromochloromethane	µg/m^3	0.9			0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		100		1.4 J	0.37 J	0.34 U
Ethylbenzene	µg/m^3	9.7	1000	3000	0.30 U	0.30 U	0.30 U
Hexachlorobutadiene	µg/m^3	1.1			0.83 U	0.83 U	0.83 UJ
Hexane	µg/m^3		730		0.14 J	0.39 J	0.37 J
Isopropyl alcohol	µg/m^3				0.99 J	1.6 J	0.80 J
Isopropyl benzene	µg/m^3		420		0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m^3		100	2000	0.52 U	0.63 J	0.52 U
Methyl methacrylate	µg/m^3		730		0.32 U	0.32 U	0.38 J
Methyl tert butyl ether (MTBE)	µg/m^3	94	3100		0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m^3	960	630		2.9 U	1.1 U	1.3 U
Naphthalene	µg/m^3	0.72	3.1	36.7	0.69 J	0.47 UJ	0.47 U
N-Butylbenzene	µg/m^3				0.25 U	0.25 U	0.25 U
N-Decane	µg/m^3				1.9 J	2.7 J	0.83 J
N-Dodecane	µg/m^3				0.81 J	1.6 J	0.98 J
N-Heptane	µg/m^3				0.19 U	0.23 J	0.19 U
Nonane	µg/m^3		210		0.71 J	0.99 J	0.23 U
N-Propylbenzene	µg/m^3				0.28 U	0.28 U	0.28 U
N-Undecane	µg/m^3				1.0 J	2.1 J	0.41 J
Octane	µg/m^3				0.17 U	0.18 J	0.17 U
o-Xylene	µg/m^3		100	2000	0.26 U	0.26 U	0.26 U
Pentane	µg/m^3		1000		0.18 U	1.1 J	0.41 J
Styrene	µg/m^3		1000		0.25 U	0.25 U	0.25 U

TABLE 4.9

SUMMARY OF ROUND 2 RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Further Investigation		ODH Sub-slab soil vapor Residential	*SS-38443-080112-GL-025*	*SS-38443-080112-GL-026*	*SS-38443-080112-GL-024*
Sample Date:					*8/1/2012*	*8/1/2012*	*8/1/2012*
		ELCR	HI				
	Units	*a*	*b*	*c*			
tert-Butyl alcohol	µg/m^3				0.32 J	0.30 J	0.50 J
tert-Butylbenzene	µg/m^3				0.36 U	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	94	42	400	**82**[b]	**54**[b]	**130**[ab]
Tetrahydrofuran	µg/m^3				0.19 U	0.19 U	0.48 J
Toluene	µg/m^3		5200		0.39 J	1.4	0.45 J
trans-1,2-Dichloroethene	µg/m^3		63		0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	6.1	21		0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	4.3	2.1	20	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3		730		2.5	3.5	4.0
Trifluorotrichloroethane (Freon 113)	µg/m^3		31000		0.82 J	1.0 J	1.1 J
Vinyl bromide (Bromoethene)	µg/m^3	0.76	3.1		0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	1.6	100	10	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		100		-	-	-

TABLE 4.9

SUMMARY OF ROUND 2 RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Further Investigation		ODH Sub-slab soil vapor Residential	*SS-38443-080112-GL-025*	*SS-38443-080112-GL-026*	*SS-38443-080112-GL-024*
Sample Date:					*8/1/2012*	*8/1/2012*	*8/1/2012*
		ELCR	HI				
	Units	*a*	*b*	*c*			
Fixed Gases							
Ethane	%				0.20 U	0.21 U	0.21 U
Ethene	%				0.20 U	0.21 U	0.21 U
Helium	%				-	-	-
Methane	%	0.5	0.5	0.5	0.18 U	0.19 U	0.19 U
Methane, field, filtered	%	0.5	0.5	0.5	0 Dup 0	0 Dup 0	0 Dup 0

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0 Dup 0 - field methane values measured at the start and end of sampling.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

SVSL - Soil Vapor Screening Level

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

- - Not applicable.

The residential SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

- Concentration was greater than applicable criteria.

TABLE 4.10

SUMMARY OF ROUND 2 RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 2943, Unit 112*	*Parcel 2943, Unit 112, Outdoor Air*	*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15, Outdoor Air*	*Parcel 3262*	*Parcel 3262, Outdoor Air*	*Parcel 4610, Bldg A*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Residential IASL For Rapid Response		ODH IA Residential	*CS-38443-073112-GL-008*	*OA-38443-073112-GL-009*	*CS-38443-073112-GL-011*	*CS-38443-073112-GL-012*	*OA-38443-073112-GL-010*	*CS-38443-080112-GL-027*	*OA-38443-080112-GL-028*	*CS-38443-073112-GL-015*
Sample Date:							*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*8/1/2012*	*8/1/2012*	*7/31/2012*
Sample Type:		ELCR	HI	ELCR	HI	Residential				*Duplicate*				
	Units	*a*	*b*	*c*	*d*	*e*								
Cumulative Risk														
Total HI	µg/m³		1		1		0	-	0	-	-	1	-	0
Total Risk	µg/m³	1E-5		1E-5			1E-05	-	2E-05[a]	-	-	3E-05[a]	-	1E-05
Volatile Organic Compounds														
1,1,1-Trichloroethane	µg/m³		5200		52000		0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U
1,1,2,2-Tetrachloroethane	µg/m³	0.42		4.2			0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,1,2-Trichloroethane	µg/m³	1.5	0.21	15	2.1		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
1,1-Dichloroethane	µg/m³	15		150		15	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U
1,1-Dichloroethene	µg/m³		210		2100		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U
1,2,4-Trichlorobenzene	µg/m³		2.1		21		0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m³		7.3		73		0.93 J	0.57 J	0.42 J	0.41 J	0.45 J	1.3	1.9	0.61 J
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.041	9.4	0.41	94		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
1,2-Dichlorobenzene	µg/m³		210		2100		0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U
1,2-Dichloroethane	µg/m³	0.94	7.3	9.4	73		0.46 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	2.4	4.2	24	42		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
1,3,5-Trimethylbenzene	µg/m³						0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
1,3-Butadiene	µg/m³	0.81	2.1	8.1	21		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m³	2.2	830	22	8300		0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U
1,4-Dichlorobenzene	µg/m³	2.2	830	22	8300		0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U	0.38 U
1,4-Dioxane	µg/m³	3.2	3100	32	31000		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
2,2,4-Trimethylpentane	µg/m³						0.35 J	0.36 J	0.29 J	0.32 J	0.27 J	1.3 J	1.7 J	0.45 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		5200		52000		3.8	1.8 J	3.4	2.0 J	1.8 J	9.8	2.4 J	3.5
2-Chlorotoluene	µg/m³						0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U
2-Hexanone	µg/m³		31		310		0.24 U	0.24 U	0.29 J	0.24 U	0.24 U	0.25 J	0.26 J	0.25 J
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U
4-Ethyl toluene	µg/m³						0.32 U	0.32 U	0.35 J	0.32 U	0.32 U	1.3 J	0.69 J	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		3100		31000		0.18 U	0.18 U	0.38 J	0.18 U	0.18 U	0.45 J	0.23 J	0.51 J
Acetone	µg/m³		32000		320000		13 J	9.5 J	19 J	13 J	9.6 J	41 J	15 J	24 J
Allyl chloride	µg/m³	4.1	1	41	10		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Benzene	µg/m³	3.1	31	31	310	1	0.53 J	0.56 J	0.54 J	0.57 J	0.52 J	1.7[a]	1.2[a]	1.5[a]
Benzyl chloride	µg/m³	0.5	1	5	10		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U
Bromodichloromethane	µg/m³	0.66		6.6			0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.31 J	0.29 U	0.29 U
Bromoform	µg/m³	22		220			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromomethane (Methyl bromide)	µg/m³		5.2		52		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U
Butane	µg/m³						3.7 J	2.7 J	4.4 J	4.5 J	2.6 J	70 J	3.2 J	26
Carbon disulfide	µg/m³		730		7300		0.15 J	0.13 J	2.2 J	0.14 J	0.10 J	0.23 J	0.37 J	0.19 J
Carbon tetrachloride	µg/m³	4.1	100	41	1000		0.64 J	0.61 J	0.74 J	0.74 J	0.68 J	0.71 J	0.63 J	0.60 J
Chlorobenzene	µg/m³		52		520		0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U
Chlorodifluoromethane	µg/m³		52000		520000		1.6	1.4	65	71	4.6	6.1	1.8	2.6
Chloroethane	µg/m³		10000		100000		0.092 U	0.092 U	0.74	0.092 U	0.092 U	0.092 U	0.092 U	0.092 U
Chloroform (Trichloromethane)	µg/m³	1.1	100	11	1000	100	0.23 J	0.25 J	0.83 J	0.34 J	0.28 J	0.86 J	0.29 J	0.35 J
Chloromethane (Methyl chloride)	µg/m³		94		940		2.1	1.5	4.7 J	1.5 J	2.1	2.2	2.2	0.33 U
cis-1,2-Dichloroethene[b]	µg/m³		63		630	35	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U
cis-1,3-Dichloropropene[c]	µg/m³	6.1	21	61	210		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U
Cyclohexane	µg/m³		6300		63000		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	2.3	0.43 J	0.42 J
Cymene (p-Isopropyltoluene)	µg/m³						0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.49 J	0.31 U	0.31 U
Dibromochloromethane	µg/m³	0.9		9			0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m³		100		1000		3.2 J	3.1 J	3.1 J	3.2 J	3.4 J	3.8 J	3.2 J	2.9
Ethylbenzene	µg/m³	9.7	1000	97	10000	300	0.52 J	0.41 J	0.35 J	0.39 J	0.43 J	1.5	1.9	0.49 J
Hexachlorobutadiene	µg/m³	1.1		11			0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 U	0.83 UJ
Hexane	µg/m³		730		7300		0.90 J	0.80 J	0.75 J	0.73 J	0.79 J	5.0	2.3	1.2 J
Isopropyl alcohol	µg/m³						8.1	6.6	2.3 J	2.6 J	2.4 J	13	2.0 J	28
Isopropyl benzene	µg/m³		420		4200		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U
m&p-Xylenes	µg/m³		100		1000	200	1.8	1.5	1.1	1.3	1.3	5.4	7.1	1.6
Methyl methacrylate	µg/m³		730		7300		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m³	94	3100	940	31000		0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U
Methylene chloride	µg/m³	960	630	9600	6300		0.90 U	0.99 U	1.2 U	1.0 U	1.9 U	1.9 U	1.2 U	1.9 U
Naphthalene	µg/m³	0.72	3.1	7.2	31	3.67	0.47 UJ	0.47 UJ	0.47 UJ	0.77 J[a]	0.47 UJ	0.50 J	0.47 UJ	0.47 U
N-Butylbenzene	µg/m³						0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.25 U
N-Decane	µg/m³						1.2 J	1.2 J	1.00 J	1.9 J	0.88 J	1.2 J	0.91 J	1.9 J
N-Dodecane	µg/m³						0.54 UJ	0.54 UJ	0.54 UJ	2.3 J	0.54 UJ	0.55 J	0.67 J	0.54 U
N-Heptane	µg/m³						0.80 J	0.52 J	0.49 J	0.52 J	0.71 J	2.5	1.2 J	0.71 J
Nonane	µg/m³		210		2100		0.52 J	0.54 J	0.36 J	0.73 J	0.45 J	0.47 J	0.45 J	1.3 J
N-Propylbenzene	µg/m³						0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	0.40 J	0.28 U
N-Undecane	µg/m³						0.43 J	0.58 J	0.50 J	4.1 J	0.67 J	0.60 J	0.61 J	0.57 J
Octane	µg/m³						0.33 J	0.20 J	0.17 U	0.17 U	0.28 J	0.98 J	0.78 J	0.28 J

TABLE 4.10

SUMMARY OF ROUND 2 RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 2943, Unit 112*	*Parcel 2943, Unit 112, Outdoor Air*	*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15, Outdoor Air*	*Parcel 3262*	*Parcel 3262, Outdoor Air*	*Parcel 4610, Bldg A*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Residential IASL For Rapid Response		ODH IA Residential	*CS-38443-073112-GL-008*	*OA-38443-073112-GL-009*	*CS-38443-073112-GL-011*	*CS-38443-073112-GL-012*	*OA-38443-073112-GL-010*	*CS-38443-080112-GL-027*	*OA-38443-080112-GL-028*	*CS-38443-073112-GL-015*
Sample Date:							*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*8/1/2012*	*8/1/2012*	*7/31/2012*
Sample Type:		ELCR	HI	ELCR	HI	Residential				*Duplicate*				
	Units	*a*	*b*	*c*	*d*	*e*								
o-Xylene	µg/m^3		100		1000	200	0.64 J	0.58 J	0.43 J	0.49 J	0.52 J	1.9	2.6	0.64 J
Pentane	µg/m^3		1000		10000		2.0 J	1.4 J	1.4 J	1.4 J	1.8 J	14	3.4	4.7
Styrene	µg/m^3		1000		10000		0.25 U	0.25 U	0.29 J	0.50 J	0.25 U	3.3	0.32 J	0.33 J
tert-Butyl alcohol	µg/m^3						0.27 J	0.20 J	0.74 J	0.54 J	0.18 J	0.55 J	0.59 J	0.48 J
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U
Tetrachloroethene	µg/m^3	94	42	940	420	40	0.28 J	0.27 U	0.27 U	0.27 U	0.27 U	3.2	0.27 U	0.36 J
Tetrahydrofuran	µg/m^3						2.5 J	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Toluene	µg/m^3		5200		52000		2.2	2.2	1.7	2.0	2.1	14	8.9	5.5
trans-1,2-Dichloroethene	µg/m^3		63		630		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	6.1	21	61	210		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U
Trichloroethene	µg/m^3	4.3	2.1	43	21	2	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U
Trichlorofluoromethane (CFC-11)	µg/m^3		730		7300		1.9	1.8	2.0	2.0	1.8	2.1	1.8	2.0
Trifluorotrichloroethane (Freon 113)	µg/m^3		31000		310000		0.67 J	0.62 J	0.67 J	0.66 J	0.66 J	0.76 J	0.67 J	0.65 J
Vinyl bromide (Bromoethene)	µg/m^3	0.76	3.1	7.6	31		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U
Vinyl chloride	µg/m^3	1.6	100	16	1000	1	0.18 U	0.18 U	0.21 J	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U
Xylenes (total)	µg/m^3		100		1000		-	-	-	-	-	-	-	-
Fixed Gases														
Ethane	%						0.21 U	0.23 U	0.20 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U
Ethene	%						0.21 U	0.23 U	0.20 U	0.21 U	0.22 U	0.22 U	0.22 U	0.22 U
Methane	%	0.05	0.05	0.05	0.05	0.05	0.19 U	0.21 U	0.18 U	0.19 U	0.20 U	0.20 U	0.20 U	0.20 U
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon														
Radon-222	pCi/L						-	-	-	-	-	-	-	-

TABLE 4.10

SUMMARY OF ROUND 2 RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 4610, Bldg A, Outdoor Air*	*Parcel 3253, Bldg 1*	*Parcel 3253, Bldg 1*	*Parcel 3253, Bldg 1, Outdoor Air*	*Parcel 3253, Bldg 2*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Residential IASL For Rapid Response		ODH IA Residential	*OA-38443-073112-GL-016*	*IA-38443-073112-GL-013*	*IA-38443-073112-GL-014*	*OA-38443-073112-GL-017*	-
Sample Date:							*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/30/2012*
Sample Type:		ELCR	HI	ELCR	HI				*Duplicate*		
	Units	*a*	*b*	*c*	*d*	*e*					
Cumulative Risk											
Total HI	µg/m^3		1		1		-	1	-	-	-
Total Risk	µg/m^3	1E-5		1E-5			-	2E-05[ac]	-	-	-
Volatile Organic Compounds											
1,1,1-Trichloroethane	µg/m^3		5200		52000		0.16 U	0.16 U	0.20 UJ	0.16 U	-
1,1,2,2-Tetrachloroethane	µg/m^3	0.42		4.2			0.42 U	0.42 U	0.52 UJ	0.42 U	-
1,1,2-Trichloroethane	µg/m^3	1.5	0.21	15	2.1		0.29 U	0.29 U	0.37 UJ	0.29 U	-
1,1-Dichloroethane	µg/m^3	15		150		15	0.11 U	0.11 U	0.13 UJ	0.11 U	-
1,1-Dichloroethene	µg/m^3		210		2100		0.13 U	0.13 U	0.16 UJ	0.13 U	-
1,2,4-Trichlorobenzene	µg/m^3		2.1		21		0.73 UJ	0.73 UJ	0.90 UJ	0.73 UJ	-
1,2,4-Trimethylbenzene	µg/m^3		7.3		73		0.31 U	0.61 J	0.82 J	0.58 J	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.041	9.4	0.41	94		0.34 U	0.34 U	0.42 UJ	0.34 U	-
1,2-Dichlorobenzene	µg/m^3		210		2100		0.42 U	0.42 U	0.52 UJ	0.42 U	-
1,2-Dichloroethane	µg/m^3	0.94	7.3	9.4	73		0.19 U	0.19 U	0.24 UJ	0.19 U	-
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-
1,2-Dichloropropane	µg/m^3	2.4	4.2	24	42		0.24 U	0.24 U	0.30 UJ	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						0.22 U	0.22 U	0.28 UJ	0.22 U	-
1,3,5-Trimethylbenzene	µg/m^3						0.32 U	0.32 U	0.40 UJ	0.32 U	-
1,3-Butadiene	µg/m^3	0.81	2.1	8.1	21		0.14 U	0.28 J	0.18 UJ	0.14 U	-
1,3-Dichlorobenzene[a]	µg/m^3	2.2	830	22	8300		0.39 U	0.39 U	0.48 UJ	0.39 U	-
1,4-Dichlorobenzene	µg/m^3	2.2	830	22	8300		0.38 U	0.38 U	0.48 UJ	0.38 U	-
1,4-Dioxane	µg/m^3	3.2	3100	32	31000		0.29 U	0.29 U	0.36 UJ	0.29 U	-
2,2,4-Trimethylpentane	µg/m^3						24	0.31 J	0.43 J	0.36 J	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		5200		52000		2.8 J	3.3	3.0 J	2.0 J	-
2-Chlorotoluene	µg/m^3						0.33 U	0.33 U	0.40 UJ	0.33 U	-
2-Hexanone	µg/m^3		31		310		0.24 UJ	0.29 J	0.29 UJ	0.24 UJ	-
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						0.35 U	0.35 U	0.44 UJ	0.35 U	-
4-Ethyl toluene	µg/m^3						0.32 U	0.32 U	0.40 UJ	0.32 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		3100		31000		1.9 J	0.38 J	0.23 UJ	0.18 U	-
Acetone	µg/m^3		32000		320000		20 J	23 J	36 J	13 J	-
Allyl chloride	µg/m^3	4.1	1	41	10		0.15 U	0.15 U	0.19 UJ	0.15 U	-
Benzene	µg/m^3	3.1	31	31	310	1	0.76	1.6[e]	1.6 J[e]	0.60 J	-
Benzyl chloride	µg/m^3	0.5	1	5	10		0.40 U	0.40 U	0.50 UJ	0.40 U	-
Bromodichloromethane	µg/m^3	0.66		6.6			0.29 U	0.29 U	0.37 UJ	0.29 U	-
Bromoform	µg/m^3	22		220			0.50 U	0.50 U	0.62 UJ	0.50 U	-
Bromomethane (Methyl bromide)	µg/m^3		5.2		52		0.12 U	0.12 U	0.15 UJ	0.12 U	-
Butane	µg/m^3						3.6	17	18 J	2.7	-
Carbon disulfide	µg/m^3		730		7300		0.20 J	0.18 J	0.33 J	0.15 J	-
Carbon tetrachloride	µg/m^3	4.1	100	41	1000		0.69 J	0.63 J	0.90 J	0.59 J	-
Chlorobenzene	µg/m^3		52		520		0.23 U	0.23 U	0.28 UJ	0.23 U	-
Chlorodifluoromethane	µg/m^3		52000		520000		1.7	1.6 J	4.5 J	1.6	-
Chloroethane	µg/m^3		10000		100000		0.092 U	0.092 U	0.11 UJ	0.092 U	-
Chloroform (Trichloromethane)	µg/m^3	1.1	100	11	1000	100	0.37 J	0.42 J	0.78 J	0.30 J	-
Chloromethane (Methyl chloride)	µg/m^3		94		940		1.9	1.9	2.6 J	1.6	-
cis-1,2-Dichloroethene[b]	µg/m^3		63		630	35	0.24 U	0.24 U	0.29 UJ	0.24 U	-
cis-1,3-Dichloropropene[c]	µg/m^3	6.1	21	61	210		0.34 U	0.34 U	0.42 UJ	0.34 U	-
Cyclohexane	µg/m^3		6300		63000		1.3 J	0.25 J	0.41 J	0.14 U	-
Cymene (p-Isopropyltoluene)	µg/m^3						0.31 U	0.31 U	0.39 UJ	0.31 U	-
Dibromochloromethane	µg/m^3	0.9		9			0.36 U	0.36 U	0.44 UJ	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m^3		100		1000		3.5	3.1	4.3 J	3.1	-
Ethylbenzene	µg/m^3	9.7	1000	97	10000	300	2.4	0.49 J	0.77 J	0.49 J	-
Hexachlorobutadiene	µg/m^3	1.1		11			0.83 UJ	0.83 UJ	1.0 UJ	0.83 UJ	-
Hexane	µg/m^3		730		7300		4.3	1.2 J	25 J	0.93 J	-
Isopropyl alcohol	µg/m^3						2.1 J	2.4 J	3.0 J	1.4 J	-
Isopropyl benzene	µg/m^3		420		4200		0.29 U	0.29 U	0.37 UJ	0.29 U	-
m&p-Xylenes	µg/m^3		100		1000	200	3.9	1.6	2.4 J	1.6	-
Methyl methacrylate	µg/m^3		730		7300		1.0 J	0.32 U	0.40 UJ	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m^3	94	3100	940	31000		0.61 U	0.61 U	0.76 UJ	0.61 U	-
Methylene chloride	µg/m^3	960	630	9600	6300		1.1 U	1.1 UJ	44 J	1.3 U	-
Naphthalene	µg/m^3	0.72	3.1	7.2	31	3.67	0.47 U	0.47 U	0.59 UJ	0.47 U	-
N-Butylbenzene	µg/m^3						0.25 U	0.25 U	0.31 UJ	0.25 U	-
N-Decane	µg/m^3						0.33 U	4.6 J	3.2 J	1.7 J	-
N-Dodecane	µg/m^3						0.54 U	0.54 U	0.67 UJ	0.69 J	-
N-Heptane	µg/m^3						10	0.65 J	0.66 J	0.57 J	-
Nonane	µg/m^3		210		2100		0.23 U	2.2 J	2.1 J	0.73 J	-
N-Propylbenzene	µg/m^3						0.28 U	0.28 U	0.34 UJ	0.28 U	-
N-Undecane	µg/m^3						0.40 UJ	0.40 UJ	0.73 J	0.51 J	-
Octane	µg/m^3						1.6 J	0.32 J	0.32 J	0.17 U	-

TABLE 4.10

SUMMARY OF ROUND 2 RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS - JULY / AUGUST 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:							*Parcel 4610, Bldg A, Outdoor Air*	*Parcel 3253, Bldg 1*	*Parcel 3253, Bldg 1*	*Parcel 3253, Bldg 1, Outdoor Air*	*Parcel 3253, Bldg 2*
Sample ID:		Residential IASL For Mitigation and CSSL for Further Investigation		Residential IASL For Rapid Response		ODH IA Residential	*OA-38443-073112-GL-016*	*IA-38443-073112-GL-013*	*IA-38443-073112-GL-014*	*OA-38443-073112-GL-017*	*-*
Sample Date:							*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/31/2012*	*7/30/2012*
Sample Type:		ELCR	HI	ELCR	HI				*Duplicate*		
	Units	*a*	*b*	*c*	*d*	*e*					
o-Xylene	µg/m^3		100		1000	200	0.87	0.70 J	0.86 J	0.57 J	-
Pentane	µg/m^3		1000		10000		3.1	3.0	4.6 J	2.4 J	-
Styrene	µg/m^3		1000		10000		0.25 U	0.34 J	0.38 J	0.25 U	-
tert-Butyl alcohol	µg/m^3						0.32 J	0.69 J	0.64 J	0.23 J	-
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.45 UJ	0.36 U	-
Tetrachloroethene	µg/m^3	94	42	940	420	40	0.50 J	0.27 U	0.34 UJ	0.27 U	-
Tetrahydrofuran	µg/m^3						0.19 U	0.19 U	0.56 J	0.19 U	-
Toluene	µg/m^3		5200		52000		24	3.3 J	10 J	2.5	-
trans-1,2-Dichloroethene	µg/m^3		63		630		0.20 U	0.20 U	0.25 UJ	0.20 U	-
trans-1,3-Dichloropropene[d]	µg/m^3	6.1	21	61	210		0.22 U	0.22 U	0.27 UJ	0.22 U	-
Trichloroethene	µg/m^3	4.3	2.1	43	21	2	0.19 U	0.19 U	0.24 UJ	0.19 U	-
Trichlorofluoromethane (CFC-11)	µg/m^3		730		7300		1.9	2.2 J	13 J	1.7	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		31000		310000		0.60 J	0.63 J	0.87 J	0.59 J	-
Vinyl bromide (Bromoethene)	µg/m^3	0.76	3.1	7.6	31		0.15 U	0.15 U	0.19 UJ	0.15 U	-
Vinyl chloride	µg/m^3	1.6	100	16	1000	1	0.18 U	0.18 U	0.23 UJ	0.18 U	-
Xylenes (total)	µg/m^3		100		1000		-	-	-	-	-
Fixed Gases											
Ethane	%						0.23 U	0.23 U	0.23 U	0.23 U	-
Ethene	%						0.23 U	0.23 U	0.23 U	0.23 U	-
Methane	%	0.05	0.05	0.05	0.05	0.05	0.20 U	0.21 U	0.20 U	0.21 U	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon											
Radon-222	pCi/L						-	-	-	-	-

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

CSSL - Crawl Space Screening Level

IASL - Indoor Air Screening Level

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

pCi/L - picoCuries per Liter

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

- - Not applicable.

The Residential IASLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential Air.

The RSLs are derived assuming a 10-6 target estimated lifetime cancer risk level or a hazard index of 1.

The CSSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential Air.

The CSSLs were derived from the USEPA (May 2012) RSLs by applying default crawl-space-to-indoor-air attenuation factor of 1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

[ ] - Concentration was greater than applicable criteria.

TABLE 4.11

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor Non-residential	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5174, Bldg 1, Probe E*
Sample ID:					*SS-38443-091212-GL-011*	*SSR-091212-GL-005*	*SS-38443-091212-GL-013*	*SSR-091212-GL-007*	*SS-38443-091312-GL-022*	*SS-38443-091412-GL-026*
Sample Date:		ELCR	HI		*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/13/2012*	*9/14/2012*
	Units	*a*	*b*	*c*						
Cumulative Risk										
Total HI	µg/m^3		1		0	-	0	-	13[b]	2[b]
Total Risk	µg/m^3	1E-5			2E-07	-	9E-07	-	4E-05[a]	6E-06
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/m^3		220000		18	-	19	-	93	10
1,1,2,2-Tetrachloroethane	µg/m^3	21			0.42 U	-	0.42 U	-	4.2 U	0.42 U
1,1,2-Trichloroethane	µg/m^3	77	8.8		0.29 U	-	0.29 U	-	2.9 U	0.29 U
1,1-Dichloroethane	µg/m^3	770		630	0.11 U	-	0.11 U	-	4.2 J	0.11 U
1,1-Dichloroethene	µg/m^3		8800		0.13 U	-	0.13 U	-	1.3 U	0.13 U
1,2,4-Trichlorobenzene	µg/m^3		88		0.73 UJ	-	0.73 U	-	7.3 UJ	0.73 UJ
1,2,4-Trimethylbenzene	µg/m^3		310		0.31 U	-	0.31 U	-	3.1 U	0.31 U
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	2.0	390		0.34 U	-	0.34 U	-	3.4 U	0.34 U
1,2-Dichlorobenzene	µg/m^3		8800		0.42 U	-	0.42 U	-	4.2 U	0.42 U
1,2-Dichloroethane	µg/m^3	47	310		0.19 U	-	0.19 U	-	1.9 U	0.19 U
1,2-Dichloroethene (total)	µg/m^3				-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	120	180		0.24 U	-	0.24 U	-	2.4 U	0.24 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				0.22 U	-	0.22 U	-	7.7 J	0.95 J
1,3,5-Trimethylbenzene	µg/m^3				0.32 U	-	0.32 U	-	3.2 U	0.32 U
1,3-Butadiene	µg/m^3	41	88		0.14 U	-	0.14 U	-	1.4 U	0.14 U
1,3-Dichlorobenzene[a]	µg/m^3	110	35000		0.39 U	-	0.39 U	-	3.9 U	0.39 U
1,4-Dichlorobenzene	µg/m^3	110	35000		0.38 U	-	0.38 U	-	3.8 U	0.38 U
1,4-Dioxane	µg/m^3	160	130000		0.29 U	-	0.29 U	-	2.9 U	0.29 U
2,2,4-Trimethylpentane	µg/m^3				0.18 U	-	0.18 U	-	1.8 U	0.18 U
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		220000		1.1 J	-	0.75 J	-	5.9 U	1.3 J
2-Chlorotoluene	µg/m^3				0.33 U	-	0.33 U	-	3.3 U	0.33 U
2-Hexanone	µg/m^3		1300		0.24 U	-	0.24 U	-	2.4 U	0.24 U
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				0.35 U	-	0.35 U	-	3.5 U	0.35 U
4-Ethyl toluene	µg/m^3				0.32 U	-	0.32 U	-	3.2 U	0.32 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m^3		130000		0.31 J	-	0.18 U	-	1.8 U	0.25 J
Acetone	µg/m^3		1400000		13	-	4.9 J	-	33 U	9.6 J
Allyl chloride	µg/m^3	200	44		0.15 U	-	0.15 U	-	1.5 U	0.15 U
Benzene	µg/m^3	160	1300	40	0.18 U	-	0.18 U	-	1.8 U	0.18 U
Benzyl chloride	µg/m^3	25	44		0.40 U	-	0.40 U	-	4.0 U	0.40 U
Bromodichloromethane	µg/m^3	33			0.29 U	-	0.29 U	-	2.9 U	0.29 U
Bromoform	µg/m^3	1,100			0.50 U	-	0.50 U	-	5.0 U	0.50 U
Bromomethane (Methyl bromide)	µg/m^3		220		0.12 U	-	0.12 U	-	1.2 U	0.12 U
Butane	µg/m^3				0.28 J	-	0.15 U	-	1.5 U	0.18 J
Carbon disulfide	µg/m^3		31000		1.7	-	0.26 J	-	0.97 U	0.097 U
Carbon tetrachloride	µg/m^3	200	4400		0.24 J	-	0.24 UJ	-	2.4 U	0.53 J
Chlorobenzene	µg/m^3		2200		0.23 U	-	0.23 U	-	2.3 U	0.23 U
Chlorodifluoromethane	µg/m^3		2200000		0.59 J	-	0.51 J	-	17	13
Chloroethane	µg/m^3		440000		0.092 U	-	0.092 U	-	0.92 U	0.092 U
Chloroform (Trichloromethane)	µg/m^3	53	4300	4000	0.19 U	-	1.5	-	2.7 J	0.19 U
Chloromethane (Methyl chloride)	µg/m^3		3900		0.33 U	-	0.33 U	-	3.3 U	0.33 U
cis-1,2-Dichloroethene[b]	µg/m^3		2600	1500	0.24 U	-	0.24 U	-	4.6 J	0.24 U
cis-1,3-Dichloropropene[c]	µg/m^3	310	880		0.34 U	-	0.34 U	-	3.4 U	0.34 U
Cyclohexane	µg/m^3		260000		0.14 U	-	0.14 U	-	1.4 U	0.14 U
Cymene (p-Isopropyltoluene)	µg/m^3				0.31 U	-	0.31 U	-	3.1 U	0.31 U
Dibromochloromethane	µg/m^3	45			0.36 U	-	0.36 U	-	3.6 U	0.36 U
Dichlorodifluoromethane (CFC-12)	µg/m^3		4400		3.5	-	0.34 U	-	5.5 J	2.8
Ethylbenzene	µg/m^3	490	44000	13000	0.30 U	-	0.30 U	-	3.0 U	0.30 U
Hexachlorobutadiene	µg/m^3	56			0.83 UJ	-	0.83 U	-	8.3 UJ	0.83 UJ
Hexane	µg/m^3		31000		0.16 J	-	0.12 J	-	1.1 U	0.48 J
Isopropyl alcohol	µg/m^3				0.76 J	-	0.60 J	-	1.1 U	0.39 J
Isopropyl benzene	µg/m^3		18000		0.29 U	-	0.29 U	-	2.9 U	0.29 U
m&p-Xylenes	µg/m^3		4400	8000	0.52 U	-	0.52 U	-	5.2 U	0.52 U
Methyl methacrylate	µg/m^3		31000		0.32 U	-	0.32 U	-	3.2 U	0.32 U
Methyl tert butyl ether (MTBE)	µg/m^3	4,700	130000		0.61 U	-	0.61 U	-	6.1 U	0.61 U

TABLE 4.11

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor Non-residential	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe A*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 3254, Bldg 1, Probe B*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5174, Bldg 1, Probe E*
Sample ID:					*SS-38443-091212-GL-011*	*SSR-091212-GL-005*	*SS-38443-091212-GL-013*	*SSR-091212-GL-007*	*SS-38443-091312-GL-022*	*SS-38443-091412-GL-026*
Sample Date:		ELCR	HI		*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/13/2012*	*9/14/2012*
	Units	*a*	*b*	*c*						
Methylene chloride	µg/m^3	120,000	26000		1.0 U	-	0.93 U	-	4.5 U	0.90 U
Naphthalene	µg/m^3	36	130	15.2	0.47 UJ	-	0.47 U	-	4.7 UJ	0.47 UJ
N-Butylbenzene	µg/m^3				0.25 U	-	0.25 U	-	2.5 U	0.25 U
N-Decane	µg/m^3				0.33 UJ	-	0.41 J	-	3.3 UJ	0.33 UJ
N-Dodecane	µg/m^3				1.1 J	-	0.54 U	-	5.4 U	0.54 U
N-Heptane	µg/m^3				0.19 U	-	0.19 U	-	1.9 U	0.19 U
Nonane	µg/m^3		8800		0.23 U	-	0.23 U	-	2.3 U	0.23 U
N-Propylbenzene	µg/m^3				0.28 U	-	0.28 U	-	2.8 U	0.28 U
N-Undecane	µg/m^3				0.40 U	-	0.40 U	-	4.0 U	0.40 U
Octane	µg/m^3				0.17 U	-	0.17 U	-	1.7 U	0.17 U
o-Xylene	µg/m^3		4400	8000	0.26 U	-	0.26 U	-	2.6 U	0.26 U
Pentane	µg/m^3		44000		0.25 J	-	0.18 U	-	1.8 U	0.98 J
Styrene	µg/m^3		44000		0.25 U	-	0.25 U	-	2.5 U	0.25 U
tert-Butyl alcohol	µg/m^3				6.9 J	-	0.15 J	-	1.4 J	0.19 J
tert-Butylbenzene	µg/m^3				0.36 U	-	0.36 U	-	3.6 U	0.36 U
Tetrachloroethene	µg/m^3	4700	1800	1700	84	-	270	-	390	9.7
Tetrahydrofuran	µg/m^3				0.19 U	-	0.19 U	-	1.9 U	0.19 U
Toluene	µg/m^3		220000		0.24 J	-	0.31 J	-	2.0 U	0.77
trans-1,2-Dichloroethene	µg/m^3		2600		0.20 U	-	0.20 U	-	2.0 U	0.20 U
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		0.22 U	-	0.22 U	-	2.2 U	0.22 U
Trichloroethene	µg/m^3	300	88	100	0.19 U	-	0.19 U	-	**1100[abc]**	**180[bc]**
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		23	-	33	-	2.3 J	4.5
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		1.9	-	3.1	-	2.4 U	0.63 J
Vinyl bromide (Bromoethene)	µg/m^3	38	130		0.15 U	-	0.15 U	-	1.5 U	0.15 U
Vinyl chloride	µg/m^3	280	4400	40	0.18 U	-	0.18 U	-	1.8 U	0.18 U
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-
Fixed Gases										
Ethane	%				0.23 U	-	0.22 U	-	0.21 U	0.22 U
Ethene	%				0.23 U	-	0.22 U	-	0.21 U	0.22 U
Helium	%				-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	0.21 U	-	0.20 U	-	0.19 U	0.20 U
Methane, field, filtered	%	0.5	0.5	0.5	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0
Radon										
Radon-222	pCi/L				-	1662 +/-83	-	1816 +/-91	-	-

TABLE 4.11

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor Non-residential	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe B*	*Parcel 5223, Bldg 1, Probe B*
Sample ID:					*SSR-091412-GL-013*	*SS-38443-091112-GL-003*	*SSR-091112-GL-003*	*SS-38443-091112-GL-004*	*SS-38443-091112-GL-001*	*SSR-091112-GL-001*
Sample Date:		ELCR	HI		*9/14/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*
								Duplicate		
	Units	*a*	*b*	*c*						
Cumulative Risk										
Total HI	µg/m^3		1		-	0	-	-	0	-
Total Risk	µg/m^3	1E-5			-	2E-06	-	-	3E-08	-
Volatile Organic Compounds										
1,1,1-Trichloroethane	µg/m^3		220000		-	52	-	58	64	-
1,1,2,2-Tetrachloroethane	µg/m^3	21			-	3.0 U	-	3.0 U	0.42 U	-
1,1,2-Trichloroethane	µg/m^3	77	8.8		-	2.1 U	-	2.1 U	0.29 U	-
1,1-Dichloroethane	µg/m^3	770		630	-	0.75 U	-	0.75 U	0.11 U	-
1,1-Dichloroethene	µg/m^3		8800		-	0.91 U	-	0.91 U	0.13 U	-
1,2,4-Trichlorobenzene	µg/m^3		88		-	5.2 U	-	5.2 U	0.73 U	-
1,2,4-Trimethylbenzene	µg/m^3		310		-	2.2 U	-	2.2 U	0.31 U	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	2.0	390		-	2.4 U	-	2.4 U	0.34 U	-
1,2-Dichlorobenzene	µg/m^3		8800		-	3.0 U	-	3.0 U	0.42 U	-
1,2-Dichloroethane	µg/m^3	47	310		-	1.4 U	-	1.4 U	0.19 U	-
1,2-Dichloroethene (total)	µg/m^3				-	-	-	-	-	-
1,2-Dichloropropane	µg/m^3	120	180		-	1.7 U	-	1.7 U	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				-	1.6 U	-	1.6 U	0.22 U	-
1,3,5-Trimethylbenzene	µg/m^3				-	2.3 U	-	2.3 U	0.32 U	-
1,3-Butadiene	µg/m^3	41	88		-	1.0 U	-	1.0 U	0.14 U	-
1,3-Dichlorobenzene[a]	µg/m^3	110	35000		-	2.8 U	-	2.8 U	0.39 U	-
1,4-Dichlorobenzene	µg/m^3	110	35000		-	2.7 UJ	-	2.7 UJ	0.38 UJ	-
1,4-Dioxane	µg/m^3	160	130000		-	2.1 UJ	-	2.1 UJ	0.29 UJ	-
2,2,4-Trimethylpentane	µg/m^3				-	1.3 U	-	1.3 U	0.18 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		220000		-	4.2 UJ	-	4.2 UJ	1.3 J	-
2-Chlorotoluene	µg/m^3				-	2.3 U	-	2.3 U	0.33 U	-
2-Hexanone	µg/m^3		1300		-	1.7 U	-	1.7 U	0.24 U	-
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				-	2.5 U	-	2.5 U	0.35 U	-
4-Ethyl toluene	µg/m^3				-	2.3 U	-	2.3 U	0.32 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m^3		130000		-	1.3 U	-	1.3 U	0.65 J	-
Acetone	µg/m^3		1400000		-	24 UJ	-	24 UJ	14 J	-
Allyl chloride	µg/m^3	200	44		-	1.1 U	-	1.1 U	0.15 U	-
Benzene	µg/m^3	160	1300	40	-	1.3 U	-	1.3 U	0.18 U	-
Benzyl chloride	µg/m^3	25	44		-	2.9 U	-	2.9 U	0.40 U	-
Bromodichloromethane	µg/m^3	33			-	2.1 U	-	2.1 U	0.29 U	-
Bromoform	µg/m^3	1,100			-	3.5 UJ	-	3.5 UJ	0.50 UJ	-
Bromomethane (Methyl bromide)	µg/m^3		220		-	0.89 U	-	0.89 U	0.12 U	-
Butane	µg/m^3				-	1.1 U	-	1.1 U	1.2	-
Carbon disulfide	µg/m^3		31000		-	0.69 U	-	0.69 U	0.60 J	-
Carbon tetrachloride	µg/m^3	200	4400		-	1.7 U	-	1.7 U	0.49 J	-
Chlorobenzene	µg/m^3		2200		-	1.6 U	-	1.6 U	0.23 U	-
Chlorodifluoromethane	µg/m^3		2200000		-	0.93 U	-	1.3 J	2.5	-
Chloroethane	µg/m^3		440000		-	0.66 U	-	0.66 U	0.092 U	-
Chloroform (Trichloromethane)	µg/m^3	53	4300	4000	-	1.8 J	-	2.0 J	0.19 U	-
Chloromethane (Methyl chloride)	µg/m^3		3900		-	2.4 U	-	2.4 U	0.33 U	-
cis-1,2-Dichloroethene[b]	µg/m^3		2600	1500	-	1.7 U	-	1.7 U	0.24 U	-
cis-1,3-Dichloropropene[c]	µg/m^3	310	880		-	2.4 U	-	2.4 U	0.34 U	-
Cyclohexane	µg/m^3		260000		-	0.98 U	-	0.98 U	0.14 U	-
Cymene (p-Isopropyltoluene)	µg/m^3				-	2.2 U	-	2.2 U	0.31 U	-
Dibromochloromethane	µg/m^3	45			-	2.6 U	-	2.6 U	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m^3		4400		-	2.8 J	-	2.9 J	2.6	-
Ethylbenzene	µg/m^3	490	44000	13000	-	2.1 U	-	2.1 U	0.30 U	-
Hexachlorobutadiene	µg/m^3	56			-	5.9 U	-	5.9 U	0.83 U	-
Hexane	µg/m^3		31000		-	0.81 U	-	0.81 U	0.97 J	-
Isopropyl alcohol	µg/m^3				-	1.1 J	-	0.77 U	0.76 J	-
Isopropyl benzene	µg/m^3		18000		-	2.1 U	-	2.1 U	0.29 U	-
m&p-Xylenes	µg/m^3		4400	8000	-	3.7 U	-	3.7 U	0.52 U	-
Methyl methacrylate	µg/m^3		31000		-	2.3 U	-	2.3 U	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m^3	4,700	130000		-	4.4 U	-	4.4 U	0.61 U	-

TABLE 4.11

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:		Industrial SVSL for Monitoring		ODH Sub-slab soil vapor Non-residential	*Parcel 5174, Bldg 1, Probe E*	*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe A*	*Parcel 5223, Bldg 1, Probe B*	*Parcel 5223, Bldg 1, Probe B*
Sample ID:					*SSR-091412-GL-013*	*SS-38443-091112-GL-003*	*SSR-091112-GL-003*	*SS-38443-091112-GL-004*	*SS-38443-091112-GL-001*	*SSR-091112-GL-001*
Sample Date:		ELCR	HI		*9/14/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*
								Duplicate		
	Units	*a*	*b*	*c*						
Methylene chloride	µg/m^3	120,000	26000		-	2.6 J	-	2.8 J	1.3 J	-
Naphthalene	µg/m^3	36	130	15.2	-	3.4 U	-	3.4 U	0.47 U	-
N-Butylbenzene	µg/m^3				-	1.8 U	-	1.8 U	0.25 U	-
N-Decane	µg/m^3				-	2.3 U	-	2.3 U	0.50 J	-
N-Dodecane	µg/m^3				-	3.9 U	-	3.9 U	0.54 U	-
N-Heptane	µg/m^3				-	1.4 U	-	1.4 U	0.66 J	-
Nonane	µg/m^3		8800		-	1.6 U	-	1.6 U	0.48 J	-
N-Propylbenzene	µg/m^3				-	2.0 U	-	2.0 U	0.28 U	-
N-Undecane	µg/m^3				-	2.8 U	-	2.8 U	0.46 J	-
Octane	µg/m^3				-	1.2 U	-	1.2 U	0.54 J	-
o-Xylene	µg/m^3		4400	8000	-	1.9 U	-	1.9 U	0.26 U	-
Pentane	µg/m^3		44000		-	1.3 U	-	1.3 U	1.0 J	-
Styrene	µg/m^3		44000		-	1.8 U	-	1.8 U	0.25 U	-
tert-Butyl alcohol	µg/m^3				-	3.3 J	-	1.7 J	0.46 J	-
tert-Butylbenzene	µg/m^3				-	2.6 U	-	2.6 U	0.36 U	-
Tetrachloroethene	µg/m^3	4700	1800	1700	-	710	-	800	1.2 J	-
Tetrahydrofuran	µg/m^3				-	1.3 U	-	1.3 U	0.19 U	-
Toluene	µg/m^3		220000		-	1.5 U	-	1.5 U	0.36 J	-
trans-1,2-Dichloroethene	µg/m^3		2600		-	1.4 U	-	1.4 U	0.20 U	-
trans-1,3-Dichloropropene[d]	µg/m^3	310	880		-	1.6 U	-	1.6 U	0.22 U	-
Trichloroethene	µg/m^3	300	88	100	-	1.4 U	-	1.4 U	0.19 U	-
Trichlorofluoromethane (CFC-11)	µg/m^3		31000		-	3.6 J	-	3.7 J	1.7	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		1300000		-	1.7 U	-	1.7 U	0.60 J	-
Vinyl bromide (Bromoethene)	µg/m^3	38	130		-	1.1 U	-	1.1 U	0.15 U	-
Vinyl chloride	µg/m^3	280	4400	40	-	1.3 U	-	1.3 U	0.18 U	-
Xylenes (total)	µg/m^3		4400		-	-	-	-	-	-
Fixed Gases										
Ethane	%				-	0.21 U	-	0.22 U	0.22 U	-
Ethene	%				-	0.21 U	-	0.22 U	0.22 U	-
Helium	%				-	-	-	-	-	-
Methane	%	0.5	0.5	0.5	-	0.19 U	-	0.20 U	0.19 U	-
Methane, field, filtered	%	0.5	0.5	0.5	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	-
Radon										
Radon-222	pCi/L				337 +/-17	-	1160 +/-58	-	-	30 +/-2

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health
pCi/L - picoCuries per Liter
SVSL - Soil Vapor Screening Level
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.
- - Not applicable.
The industrial SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.
The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.
[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.
[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.
[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.
[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.
- Concentration was greater than applicable criteria.

TABLE 4.12

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Location Name							*Parcel 3254*	*Parcel 5054, Bldg 4*	*Parcel 5174, Outdoor Air*	*Parcel 5223*	*Parcel 5223*	*Parcel 3254, Bldg 1, IA_A*	*Parcel 3254, Bldg 1, IA_A*	*Parcel 3254, Bldg 1, IA_B*	*Parcel 3254, Bldg 1, IA_B*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5174, Bldg 1, IA_E*
Sample Name		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*OA-38443-091212-GL-015*	*OA-38443-091312-GL-025*	*OA-38443-091412-GL-028*	*OA-38443-091112-GL-006*	*OA-38443-091112-GL-007*	*IA-38443-091212-GL-012*	*IAR-091212-GL-006*	*IA-38443-091212-GL-014*	*IAR-091212-GL-008*	*IA-38443-091312-GL-023*	*IA-38443-091312-GL-024*	*IA-38443-091412-GL-027*
Date							*9/12/2012*	*9/13/2012*	*9/14/2012*	*9/11/2012*	*9/11/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/13/2012*	*9/13/2012*	*9/14/2012*
sample_type		ELCR	HI	ELCR	HI						*Duplicate*							
	Units	*a*	*b*	*c*	*d*	*e*												
Cumulative Risk																		
Total HI	µg/m³		1		1		-	-	-	-	-	1	-	1	-	0	0	0
Total Risk	µg/m³	1E-5		1E-5		1E-5	-	-	-	-	-	9E-06	-	5E-06	-	2E-06	4E-07	4E-06
Volatile Organic Compounds																		
1,1,1-Trichloroethane	µg/m³		22000		220000		0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.33 U	-	0.33 U	-	0.33 U	0.33 U	0.33 U
1,1,2,2-Tetrachloroethane	µg/m³	2.1		21			0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	-	0.84 U	-	0.84 U	0.84 U	0.84 U
1,1,2-Trichloroethane	µg/m³	7.7	0.88	77	8.8		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.59 U	-	0.59 U	-	0.59 U	0.59 U	0.59 U
1,1-Dichloroethane	µg/m³	77		770		63	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	-	0.21 U	-	0.21 U	0.21 U	0.21 U
1,1-Dichloroethene	µg/m³		880		8800		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	-	0.25 U	-	0.25 U	0.25 U	0.25 U
1,2,4-Trichlorobenzene	µg/m³		8.8		88		0.73 UJ	0.73 U	0.73 U	0.73 UJ	0.73 U	1.5 UJ	-	1.5 UJ	-	1.5 U	1.5 U	1.5 U
1,2,4-Trimethylbenzene	µg/m³		31		310		0.47 J	0.87 J	0.48 J	0.31 U	0.46 J	20	-	11	-	3.6	0.62 U	2.1
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.2	39	2	390		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.68 U	-	0.68 U	-	0.68 U	0.68 U	0.68 U
1,2-Dichlorobenzene	µg/m³		880		8800		0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	-	0.84 U	-	0.84 U	0.84 U	0.84 U
1,2-Dichloroethane	µg/m³	4.7	31	47	310		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	-	0.38 U	-	0.38 U	0.38 U	0.57 J
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	12	18	120	180		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	-	0.48 U	-	0.48 U	0.48 U	0.48 U
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.45 U	-	0.45 U	-	0.45 U	0.45 U	0.45 U
1,3,5-Trimethylbenzene	µg/m³						0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	4.2	-	2.8	-	1.1 J	0.64 U	0.67 J
1,3-Butadiene	µg/m³	4.1	8.8	41	88		0.14 U	0.14 U	0.18 J	0.14 U	0.14 U	0.28 U	-	0.28 U	-	0.28 U	0.28 U	0.28 U
1,3-Dichlorobenzene[a]	µg/m³	11	3500	110	35000		0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	-	0.78 U	-	0.78 U	0.78 U	0.78 U
1,4-Dichlorobenzene	µg/m³	11	3500	110	35000		0.38 U	0.38 UJ	0.38 UJ	0.38 U	0.38 U	0.77 U	-	0.77 U	-	0.77 UJ	0.77 UJ	0.77 UJ
1,4-Dioxane	µg/m³	16	13000	160	130000		0.29 U	0.29 UJ	0.29 UJ	0.29 U	0.29 U	0.58 U	-	0.58 U	-	0.58 UJ	0.58 UJ	0.58 UJ
2,2,4-Trimethylpentane	µg/m³						0.44 J	0.42 J	0.47 J	0.26 J	0.22 J	24	-	24	-	2.2 J	0.66 J	0.88 J
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		22000		220000		1.4 J	1.6 J	1.4 J	2.3 J	2.7 J	1.7 J	-	1.8 J	-	2.1 J	2.2 J	36 J
2-Chlorotoluene	µg/m³						0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.65 U	-	0.65 U	-	0.65 U	0.65 U	0.65 U
2-Hexanone	µg/m³		130		1300		0.24 U	0.24 U	0.24 U	0.24 U	0.28 J	0.48 U	-	0.48 U	-	0.48 U	0.48 U	0.48 U
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.70 U	-	0.70 U	-	0.70 U	0.70 U	0.70 U
4-Ethyl toluene	µg/m³						0.32 U	0.38 J	0.32 U	0.32 U	0.32 U	6.1	-	2.7 J	-	1.7 J	0.65 U	0.67 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		13000		130000		0.18 U	0.25 J	0.18 U	0.34 J	0.75 J	0.63 J	-	1.1 J	-	0.81 J	0.37 U	0.37 U
Acetone	µg/m³		140000		1400000		13	8.8 J	6.7 J	12	10 J	46	-	110	-	49 J	73 J	38 J
Allyl chloride	µg/m³	20	4.4	200	44		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	-	0.30 U	-	0.30 U	0.30 U	0.30 U
Benzene	µg/m³	16	130	160	1300	4	0.66	0.48 J	0.72	0.53 J	0.49 J	**8.8[g]**	-	**6.7[g]**	-	1.4	0.67 J	0.83 J
Benzyl chloride	µg/m³	2.5	4.4	25	44		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.81 U	-	0.81 U	-	0.81 U	0.81 U	0.81 U
Bromodichloromethane	µg/m³	3.3		33			0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.59 U	-	0.59 U	-	0.59 U	0.59 U	0.59 U
Bromoform	µg/m³	110		1,100			0.50 U	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.99 U	-	0.99 U	-	0.99 UJ	0.99 UJ	0.99 UJ
Bromomethane (Methyl bromide)	µg/m³		22		220		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	-	0.25 U	-	0.25 U	0.25 U	0.25 U
Butane	µg/m³						2.8	2.2	2.5	1.7	1.8	12	-	15	-	7.2	9.4	2.6
Carbon disulfide	µg/m³		3100		31000		0.097 U	0.097 U	0.097 U	0.097 U	0.16 J	0.19 U	-	0.19 U	-	0.19 U	0.19 U	0.84 J
Carbon tetrachloride	µg/m³	20	440	200	4400		0.47 J	0.38 J	0.47 J	0.52 J	0.47 J	0.57 J	-	0.58 J	-	0.48 U	0.48 U	0.48 U
Chlorobenzene	µg/m³		220		2200		0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.45 U	-	0.45 U	-	0.45 U	0.45 U	0.45 U
Chlorodifluoromethane	µg/m³		220000		2200000		1.5	1.3	1.7	1.3	1.3	1.4	-	1.5	-	1.6	1.7	6.5
Chloroethane	µg/m³		44000		440000		0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.24 J	-	0.18 U	-	0.18 U	0.18 U	0.18 U
Chloroform (Trichloromethane)	µg/m³	5.3	430	53	4300	400	0.19 U	0.26 J	0.27 J	0.19 U	0.19 U	0.37 U	-	0.37 U	-	0.37 U	0.37 U	0.43 J
Chloromethane (Methyl chloride)	µg/m³		390		3900		1.3	0.97 J	1.2	1.2	1.0	1.5 J	-	1.5 J	-	1.4 J	1.3 J	1.2 J
cis-1,2-Dichloroethene[b]	µg/m³		260		2600	150	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	-	0.48 U	-	0.48 U	0.48 U	0.48 U
cis-1,3-Dichloropropene[c]	µg/m³	31	88	310	880		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.67 U	-	0.67 U	-	0.67 U	0.67 U	0.67 U
Cyclohexane	µg/m³		26000		260000		0.30 J	0.42 J	0.49 J	0.19 J	0.14 U	0.28 U	-	0.28 U	-	2.4 J	1.4 J	2.2 J
Cymene (p-Isopropyltoluene)	µg/m³						0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.63 U	-	0.63 U	-	0.63 U	0.63 U	0.63 U
Dibromochloromethane	µg/m³	4.5		45			0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	-	0.72 U	-	0.72 U	0.72 U	0.72 U
Dichlorodifluoromethane (CFC-12)	µg/m³		440		4400		2.6	2.2	2.4	2.7	2.7	2.7	-	2.8	-	2.7	2.7	2.3
Ethylbenzene	µg/m³	49	4400	490	44000	1300	0.46 J	0.50 J	0.53 J	0.30 U	0.34 J	13	-	8.8	-	5.4	0.59 U	5.0
Hexachlorobutadiene	µg/m³	5.6		56			0.83 UJ	0.83 U	0.83 U	0.83 UJ	0.83 U	1.7 UJ	-	1.7 UJ	-	1.7 U	1.7 U	1.7 U
Hexane	µg/m³		3100		31000		0.94 J	0.90 J	1.1 J	0.64 J	0.73 J	19	-	17	-	2.8 J	1.2 J	30
Isopropyl alcohol	µg/m³						1.3 J	1.5 J	1.3 J	1.2 J	0.77 J	11	-	11	-	11	12	1.7 J
Isopropyl benzene	µg/m³		1800		18000		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	1.2 J	-	0.95 J	-	0.59 U	0.59 U	0.59 U
m&p-Xylenes	µg/m³		440		4400	800	1.5	1.5	1.5	0.95	1.2	47	-	31	-	18	1.0 U	18
Methyl methacrylate	µg/m³		3100		31000		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.65 U	-	0.65 U	-	0.65 U	0.65 U	0.65 U
Methyl tert butyl ether (MTBE)	µg/m³	470	13000	4,700	130000		0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	1.2 U	-	1.2 U	-	1.2 U	1.2 U	1.2 U
Methylene chloride	µg/m³	12,000	2600	120,000	26000		1.2 U	1.6 J	1.7 J	1.6 UJ	3.1 J	1.5 U	-	2.3 U	-	2.6 J	5.1	3.2 J
Naphthalene	µg/m³	3.6	13	36	130	15.2	0.47 UJ	0.47 U	0.47 U	0.47 UJ	0.47 U	2.1 J	-	1.0 J	-	0.94 U	0.94 U	0.94 U
N-Butylbenzene	µg/m³						0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	2.0 J	-	1.3 J	-	0.51 U	0.51 U	0.51 U
N-Decane	µg/m³						0.46 J	1.6 J	0.39 J	0.33 UJ	0.52 J	3.1 J	-	2.8 J	-	2.7 J	0.65 U	2.7 J
N-Dodecane	µg/m³						0.54 U	1.1 J	0.54 U	0.54 UJ	1.8 J	2.9 J	-	1.8 J	-	2.1 J	1.1 U	1.1 U
N-Heptane	µg/m³						0.83 J	1.2 J	0.94 J	0.40 J	0.43 J	110	-	79	-	10	0.49 J	6.6
Nonane	µg/m³		880		8800		0.23 U	0.66 J	0.23 U	0.23 U	0.27 J	3.5 J	-	3.0 J	-	2.2 J	0.45 U	3.3 J
N-Propylbenzene	µg/m³						0.28 U	0.28 U	0.28 U	0.28 U	0.28 U	3.1 J	-	2.0 J	-	1.0 J	0.55 U	0.55 U
N-Undecane	µg/m³						0.40 J	1.5 J	0.40 U	0.40 U	0.64 J	2.4 J	-	2.1 J	-	3.1 J	0.79 U	0.79 U
Octane	µg/m³						0.25 J	0.42 J	0.21 J	0.17 U	0.23 J	6.0	-	4.9	-	3.1 J	0.34 U	1.4 J

TABLE 4.12

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Location Name							*Parcel 3254*	*Parcel 5054, Bldg 4*	*Parcel 5174, Outdoor Air*	*Parcel 5223*	*Parcel 5223*	*Parcel 3254, Bldg 1, IA_A*	*Parcel 3254, Bldg 1, IA_A*	*Parcel 3254, Bldg 1, IA_B*	*Parcel 3254, Bldg 1, IA_B*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5174, Bldg 1, IA_E*
Sample Name		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*OA-38443-091212-GL-015*	*OA-38443-091312-GL-025*	*OA-38443-091412-GL-028*	*OA-38443-091112-GL-006*	*OA-38443-091112-GL-007*	*IA-38443-091212-GL-012*	*IAR-091212-GL-006*	*IA-38443-091212-GL-014*	*IAR-091212-GL-008*	*IA-38443-091312-GL-023*	*IA-38443-091312-GL-024*	*IA-38443-091412-GL-027*
Date							*9/12/2012*	*9/13/2012*	*9/14/2012*	*9/11/2012*	*9/11/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/13/2012*	*9/13/2012*	*9/14/2012*
sample_type		ELCR	HI	ELCR	HI						*Duplicate*							
	Units	***a***	***b***	***c***	***d***	***e***												
o-Xylene	µg/m^3		440		4400	800	0.56 J	0.63 J	0.51 J	0.34 J	0.43 J	18	-	11	-	5.0	0.53 U	4.2
Pentane	µg/m^3		4400		44000		2.5 J	1.6 J	2.6 J	1.5 J	1.3 J	26	-	29	-	3.3 J	3.4 J	57
Styrene	µg/m^3		4400		44000		0.25 U	0.25 U	0.25 U	0.25 U	0.25 U	0.50 J	-	0.49 U	-	0.49 U	0.49 U	0.49 U
tert-Butyl alcohol	µg/m^3						0.12 UJ	0.12 U	0.12 U	0.15 J	0.25 J	0.27 J	-	0.30 J	-	0.50 J	0.39 J	0.45 J
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	-	0.72 U	-	0.72 U	0.72 U	0.72 U
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	0.49 J	0.27 U	0.37 J	0.27 U	0.27 U	0.54 U	-	0.58 J	-	0.54 U	0.54 U	0.66 J
Tetrahydrofuran	µg/m^3						0.24 J	0.19 U	0.31 J	0.19 U	0.19 U	0.37 U	-	0.37 U	-	0.37 U	0.37 U	0.37 U
Toluene	µg/m^3		22000		220000		2.5	2.0	2.3	1.4	1.8	46	-	29	-	16	1.6	70
trans-1,2-Dichloroethene	µg/m^3		260		2600		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	-	0.40 U	-	0.40 U	0.40 U	0.40 U
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	-	0.44 U	-	0.44 U	0.44 U	0.44 U
Trichloroethene	µg/m^3	30	8.8	300	88	10	0.24 J	0.21 J	0.32 J	0.19 U	0.19 U	0.71 J	-	1.1 J	-	0.50 J	0.39 U	0.52 J
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		1.9	1.7	1.7	1.7	1.8	1.8 J	-	2.0 J	-	2.0 J	2.2	1.8 J
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		0.57 J	0.48 J	0.55 J	0.58 J	0.58 J	1.1 J	-	1.8 J	-	0.57 J	0.48 J	0.51 J
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	-	0.31 U	-	0.31 U	0.31 U	0.31 U
Vinyl chloride	µg/m^3	28	440	280	4400	4	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.36 U	-	0.36 U	-	0.36 U	0.36 U	0.36 U
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																		
Ethane	%						0.23 U	0.21 U	0.23 U	0.23 U	0.29 U	0.21 U	-	0.22 U	-	0.21 U	0.22 U	0.21 U
Ethene	%						0.23 U	0.21 U	0.23 U	0.23 U	0.29 U	0.21 U	-	0.22 U	-	0.21 U	0.22 U	0.21 U
Methane	%	0.05	0.05	0.05	0.05	0.05	0.21 U	0.19 U	0.21 U	0.21 U	0.26 U	0.19 U	-	0.19 U	-	0.19 U	0.20 U	0.19 U
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	-	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0
Radon																		
Radon-222	pCi/L						-	-	-	-	-	-	1.73 +/-0.12	-	5.22 +/-0.26	-	-	-

TABLE 4.12

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

loc_name							*Parcel 5174, Bldg 1, IA_E*	*Parcel 5223, Bldg 1, IA_A*	*Parcel 5223, Bldg 1, IA_A*	*Parcel 5223, Bldg 1, IA_B*	*Parcel 5223, Bldg 1, IA_B*
sample_name		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*IAR-091412-GL-014*	*IA-38443-091112-GL-005*	*IAR-091112-GL-004*	*IA-38443-091112-GL-002*	*IAR-091112-GL-002*
Date							*9/14/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*
sample_type		ELCR	HI	ELCR	HI						
	Units	***a***	***b***	***c***	***d***	***e***					
Cumulative Risk											
Total HI	µg/m^3		1		1		-	0	-	0	-
Total Risk	µg/m^3	1E-5		1E-5		1E-5	-	1E-05	-	2E-06	-
Volatile Organic Compounds											
1,1,1-Trichloroethane	µg/m^3		22000		220000		-	2.7	-	0.51 J	-
1,1,2,2-Tetrachloroethane	µg/m^3	2.1		21			-	0.42 U	-	0.42 U	-
1,1,2-Trichloroethane	µg/m^3	7.7	0.88	77	8.8		-	0.29 U	-	0.29 U	-
1,1-Dichloroethane	µg/m^3	77		770		63	-	0.11 U	-	0.11 U	-
1,1-Dichloroethene	µg/m^3		880		8800		-	0.13 U	-	0.13 U	-
1,2,4-Trichlorobenzene	µg/m^3		8.8		88		-	0.73 U	-	0.73 U	-
1,2,4-Trimethylbenzene	µg/m^3		31		310		-	1.5	-	2.5	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.2	39	2	390		-	0.34 U	-	0.34 U	-
1,2-Dichlorobenzene	µg/m^3		880		8800		-	0.42 U	-	0.42 U	-
1,2-Dichloroethane	µg/m^3	4.7	31	47	310		-	0.19 U	-	0.19 U	-
1,2-Dichloroethene (total)	µg/m^3						-	-	-	-	-
1,2-Dichloropropane	µg/m^3	12	18	120	180		-	0.24 U	-	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3						-	0.22 U	-	0.22 U	-
1,3,5-Trimethylbenzene	µg/m^3						-	0.46 J	-	0.89 J	-
1,3-Butadiene	µg/m^3	4.1	8.8	41	88		-	0.14 U	-	0.14 U	-
1,3-Dichlorobenzene[a]	µg/m^3	11	3500	110	35000		-	0.39 U	-	0.39 U	-
1,4-Dichlorobenzene	µg/m^3	11	3500	110	35000		-	0.38 UJ	-	0.38 U	-
1,4-Dioxane	µg/m^3	16	13000	160	130000		-	0.29 UJ	-	0.29 U	-
2,2,4-Trimethylpentane	µg/m^3						-	0.28 J	-	0.72 J	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		22000		220000		-	2.0 J	-	3.1	-
2-Chlorotoluene	µg/m^3						-	0.33 U	-	0.33 U	-
2-Hexanone	µg/m^3		130		1300		-	0.24 U	-	0.24 U	-
2-Phenylbutane (sec-Butylbenzene)	µg/m^3						-	0.35 U	-	0.35 U	-
4-Ethyl toluene	µg/m^3						-	0.44 J	-	0.73 J	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m^3		13000		130000		-	0.32 J	-	0.31 J	-
Acetone	µg/m^3		140000		1400000		-	17 J	-	11 J	-
Allyl chloride	µg/m^3	20	4.4	200	44		-	0.15 U	-	0.15 U	-
Benzene	µg/m^3	16	130	160	1300	4	-	0.56 J	-	1.7	-
Benzyl chloride	µg/m^3	2.5	4.4	25	44		-	0.40 U	-	0.40 U	-
Bromodichloromethane	µg/m^3	3.3		33			-	0.29 U	-	0.29 U	-
Bromoform	µg/m^3	110		1,100			-	0.50 UJ	-	0.50 U	-
Bromomethane (Methyl bromide)	µg/m^3		22		220		-	0.12 U	-	0.12 U	-
Butane	µg/m^3						-	2.1	-	6.6	-
Carbon disulfide	µg/m^3		3100		31000		-	0.097 U	-	0.10 J	-
Carbon tetrachloride	µg/m^3	20	440	200	4400		-	0.45 J	-	0.50 J	-
Chlorobenzene	µg/m^3		220		2200		-	0.23 U	-	0.23 U	-
Chlorodifluoromethane	µg/m^3		220000		2200000		-	4.7	-	6.6	-
Chloroethane	µg/m^3		44000		440000		-	0.092 U	-	0.092 U	-
Chloroform (Trichloromethane)	µg/m^3	5.3	430	53	4300	400	-	4.9	-	0.30 J	-
Chloromethane (Methyl chloride)	µg/m^3		390		3900		-	1.3	-	0.95 J	-
cis-1,2-Dichloroethene[b]	µg/m^3		260		2600	150	-	0.24 U	-	0.24 U	-
cis-1,3-Dichloropropene[c]	µg/m^3	31	88	310	880		-	0.34 U	-	0.34 U	-
Cyclohexane	µg/m^3		26000		260000		-	0.26 J	-	0.44 J	-
Cymene (p-Isopropyltoluene)	µg/m^3						-	0.32 J	-	0.31 U	-
Dibromochloromethane	µg/m^3	4.5		45			-	0.36 U	-	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m^3		440		4400		-	3.2	-	3.8	-
Ethylbenzene	µg/m^3	49	4400	490	44000	1300	-	0.40 J	-	1.3	-
Hexachlorobutadiene	µg/m^3	5.6		56			-	0.83 U	-	0.83 U	-
Hexane	µg/m^3		3100		31000		-	0.73 J	-	2.3	-
Isopropyl alcohol	µg/m^3						-	15	-	1.7 J	-
Isopropyl benzene	µg/m^3		1800		18000		-	0.29 U	-	0.29 U	-
m&p-Xylenes	µg/m^3		440		4400	800	-	1.3	-	4.8	-
Methyl methacrylate	µg/m^3		3100		31000		-	0.32 U	-	0.45 J	-
Methyl tert butyl ether (MTBE)	µg/m^3	470	13000	4,700	130000		-	0.61 U	-	0.61 U	-
Methylene chloride	µg/m^3	12,000	2600	120,000	26000		-	0.72 J	-	1.5 U	-
Naphthalene	µg/m^3	3.6	13	36	130	15.2	-	0.47 U	-	0.47 U	-
N-Butylbenzene	µg/m^3						-	0.29 J	-	0.34 J	-
N-Decane	µg/m^3						-	5.4 J	-	4.3 J	-
N-Dodecane	µg/m^3						-	0.54 U	-	0.54 U	-
N-Heptane	µg/m^3						-	0.55 J	-	1.3 J	-
Nonane	µg/m^3		880		8800		-	3.6	-	3.5	-
N-Propylbenzene	µg/m^3						-	0.28 U	-	0.43 J	-
N-Undecane	µg/m^3						-	2.7 J	-	1.6 J	-
Octane	µg/m^3						-	0.32 J	-	0.70 J	-

TABLE 4.12

SUMMARY OF ROUND 2 FOLLOW-UP INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

loc_name							*Parcel 5174, Bldg 1, IA_E*	*Parcel 5223, Bldg 1, IA_A*	*Parcel 5223, Bldg 1, IA_A*	*Parcel 5223, Bldg 1, IA_B*	*Parcel 5223, Bldg 1, IA_B*
sample_name		Industrial IASL For Mitigation and CSSL for Further Investigation		Industrial IASL For Rapid Response		ODH IA non-residential	*IAR-091412-GL-014*	*IA-38443-091112-GL-005*	*IAR-091112-GL-004*	*IA-38443-091112-GL-002*	*IAR-091112-GL-002*
Date							*9/14/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*
sample_type		ELCR	HI	ELCR	HI						
	Units	***a***	***b***	***c***	***d***	***e***					
o-Xylene	µg/m^3		440		4400	800	-	0.53 J	-	1.8	-
Pentane	µg/m^3		4400		44000		-	2.8 J	-	13	-
Styrene	µg/m^3		4400		44000		-	0.25 U	-	0.25 U	-
tert-Butyl alcohol	µg/m^3						-	0.30 J	-	0.18 J	-
tert-Butylbenzene	µg/m^3						-	0.36 U	-	0.36 U	-
Tetrachloroethene	µg/m^3	470	180	4700	1800	170	-	1.1 J	-	0.27 U	-
Tetrahydrofuran	µg/m^3						-	0.26 J	-	0.19 U	-
Toluene	µg/m^3		22000		220000		-	2.0	-	6.5	-
trans-1,2-Dichloroethene	µg/m^3		260		2600		-	0.20 U	-	0.20 U	-
trans-1,3-Dichloropropene[d]	µg/m^3	31	88	310	880		-	0.22 U	-	0.22 U	-
Trichloroethene	µg/m^3	30	8.8	300	88	10	-	0.48 J	-	0.19 U	-
Trichlorofluoromethane (CFC-11)	µg/m^3		3100		31000		-	3.6	-	3.6	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		130000		1300000		-	0.52 J	-	0.56 J	-
Vinyl bromide (Bromoethene)	µg/m^3	3.8	13	38	13		-	0.15 U	-	0.15 U	-
Vinyl chloride	µg/m^3	28	440	280	4400	4	-	0.18 U	-	0.18 U	-
Xylenes (total)	µg/m^3		440		4400		-	-	-	-	-
Fixed Gases											
Ethane	%						-	0.22 U	-	0.22 U	-
Ethene	%						-	0.22 U	-	0.22 U	-
Methane	%	0.05	0.05	0.05	0.05	0.05	-	0.20 U	-	0.20 U	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	-	0.0 Dup 0.0	-	0.0 Dup 0.0	-
Radon											
Radon-222	pCi/L						0.42 +/-0.08	-	2.39 +/-0.12	-	3.94 +/-0.20

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

CSSL - Crawl Space Screening Level

IASL - Indoor Air Screening Level

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

pCi/L - picoCuries per Liter

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

- - Not applicable.

The Industrial IASLs and CSSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Industrial Air

The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The CSSLs were derived from the USEPA (May 2012) RSLs by applying default crawl-space-to-indoor-air attenuation factor of 1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

[ ] - Concentration was greater than applicable criteria.

TABLE 4.13

SUMMARY OF ROUND 2 FOLLOW-UP RESIDENTIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Monitoring		ODH SS Residential	*SS-38443-091312-GL-029*	*SS-38443-091212-GL-018*	*SSR-091212-GL-011*	*SS-38443-091212-GL-016*	*SSR-091212-GL-009*
Sample Date:		ELCR	HI		*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*
	Units	*a*	*b*	*c*					
Cumulative Risk									
Total HI	µg/m^3		1		0	0	-	0	-
Total Risk	µg/m^3	1E-5			5E-06	7E-07	-	2E-06	-
Volatile Organic Compounds									
1,1,1-Trichloroethane	µg/m^3		52000		59	1.3	-	8.4	-
1,1,2,2-Tetrachloroethane	µg/m^3	4.2			0.42 U	0.42 U	-	0.42 U	-
1,1,2-Trichloroethane	µg/m^3	15	2.1		0.29 U	0.29 U	-	0.29 U	-
1,1-Dichloroethane	µg/m^3	150		150	0.11 U	0.11 U	-	0.11 U	-
1,1-Dichloroethene	µg/m^3		2100		0.13 U	0.13 U	-	0.13 U	-
1,2,4-Trichlorobenzene	µg/m^3		21		0.73 UJ	0.73 UJ	-	0.73 UJ	-
1,2,4-Trimethylbenzene	µg/m^3		73		0.31 U	0.31 U	-	0.31 U	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m^3	0.41	94		0.34 U	0.34 U	-	0.34 U	-
1,2-Dichlorobenzene	µg/m^3		2100		0.42 U	0.42 U	-	0.42 U	-
1,2-Dichloroethane	µg/m^3	9.4	73		0.19 U	0.19 U	-	0.19 U	-
1,2-Dichloroethene (total)	µg/m^3				-	-	-	-	-
1,2-Dichloropropane	µg/m^3	24	42		0.24 U	0.24 U	-	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m^3				0.22 U	0.22 U	-	0.22 U	-
1,3,5-Trimethylbenzene	µg/m^3				0.32 U	0.32 U	-	0.32 U	-
1,3-Butadiene	µg/m^3	8.1	21		0.14 U	0.14 U	-	0.14 U	-
1,3-Dichlorobenzene[a]	µg/m^3	22	8300		0.39 U	0.39 U	-	0.39 U	-
1,4-Dichlorobenzene	µg/m^3	22	8300		0.38 U	0.38 U	-	0.38 U	-
1,4-Dioxane	µg/m^3	32	31000		0.29 U	0.29 U	-	0.29 U	-
2,2,4-Trimethylpentane	µg/m^3				0.18 U	0.18 U	-	0.18 U	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m^3		52000		0.59 U	0.91 J	-	0.91 J	-
2-Chlorotoluene	µg/m^3				0.33 U	0.33 U	-	0.33 U	-
2-Hexanone	µg/m^3		310		0.24 U	0.24 U	-	0.24 U	-
2-Phenylbutane (sec-Butylbenzene)	µg/m^3				0.35 U	0.35 U	-	0.35 U	-
4-Ethyl toluene	µg/m^3				0.32 U	0.32 U	-	0.32 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MI	µg/m^3		31000		0.18 U	0.32 J	-	0.18 U	-
Acetone	µg/m^3		320000		3.3 U	10 J	-	8.5 J	-
Allyl chloride	µg/m^3	41	10		0.15 U	0.15 U	-	0.15 U	-
Benzene	µg/m^3	31	310	10	0.18 U	0.18 U	-	0.18 U	-
Benzyl chloride	µg/m^3	5	10		0.40 U	0.40 U	-	0.40 U	-
Bromodichloromethane	µg/m^3	6.6			0.29 U	0.29 U	-	0.29 U	-

TABLE 4.13

SUMMARY OF ROUND 2 FOLLOW-UP RESIDENTIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Monitoring			*SS-38443-091312-GL-029*	*SS-38443-091212-GL-018*	*SSR-091212-GL-011*	*SS-38443-091212-GL-016*	*SSR-091212-GL-009*
Sample Date:				ODH SS Residential	*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*
		ELCR	HI						
	Units	*a*	*b*	*c*					
Bromoform	µg/m^3	220			0.50 U	0.50 U	-	0.50 U	-
Bromomethane (Methyl bromide)	µg/m^3		52		0.12 U	0.12 U	-	0.12 U	-
Butane	µg/m^3				0.15 U	2.6	-	0.51 J	-
Carbon disulfide	µg/m^3		7300		0.097 U	0.097 U	-	0.17 J	-
Carbon tetrachloride	µg/m^3	41	1000		0.24 U	0.24 U	-	0.24 J	-
Chlorobenzene	µg/m^3		520		0.23 U	0.23 U	-	0.23 U	-
Chlorodifluoromethane	µg/m^3		520000		0.73	0.72	-	2.8	-
Chloroethane	µg/m^3		100000		0.092 U	0.092 U	-	0.092 U	-
Chloroform (Trichloromethane)	µg/m^3	11	1000	1000	4.7	0.19 U	-	0.20 J	-
Chloromethane (Methyl chloride)	µg/m^3		940		0.33 U	0.36 J	-	0.33 U	-
cis-1,2-Dichloroethene[b]	µg/m^3		630	350	0.24 U	0.24 U	-	0.24 U	-
cis-1,3-Dichloropropene[c]	µg/m^3	61	210		0.34 U	0.34 U	-	0.34 U	-
Cyclohexane	µg/m^3		63000		0.14 U	0.14 U	-	0.14 U	-
Cymene (p-Isopropyltoluene)	µg/m^3				0.31 U	0.31 U	-	0.31 U	-
Dibromochloromethane	µg/m^3	9.0			0.36 U	0.36 U	-	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m^3		1000		2.4	2.3	-	2.7	-
Ethylbenzene	µg/m^3	97	10000	3000	0.30 U	0.30 U	-	0.30 U	-
Hexachlorobutadiene	µg/m^3	11			0.83 UJ	0.83 UJ	-	0.83 UJ	-
Hexane	µg/m^3		7300		0.11 U	0.41 J	-	0.27 J	-
Isopropyl alcohol	µg/m^3				0.11 U	0.71 J	-	0.51 J	-
Isopropyl benzene	µg/m^3		4200		0.29 U	0.29 U	-	0.29 U	-
m&p-Xylenes	µg/m^3		1000	2000	0.52 U	0.52 U	-	0.52 U	-
Methyl methacrylate	µg/m^3		7300		0.32 U	0.32 U	-	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m^3	940	31000		0.61 U	0.61 U	-	0.61 U	-
Methylene chloride	µg/m^3	9600	6300		2.9	1.0 U	-	2.1 U	-
Naphthalene	µg/m^3	7.2	31	36.7	0.47 UJ	0.47 UJ	-	0.47 UJ	-
N-Butylbenzene	µg/m^3				0.25 U	0.25 U	-	0.25 U	-
N-Decane	µg/m^3				0.33 UJ	0.33 UJ	-	0.33 UJ	-
N-Dodecane	µg/m^3				0.54 U	0.54 U	-	0.71 J	-
N-Heptane	µg/m^3				0.19 U	0.19 U	-	0.19 U	-
Nonane	µg/m^3		2100		0.23 U	0.23 U	-	0.23 U	-
N-Propylbenzene	µg/m^3				0.28 U	0.28 U	-	0.28 U	-
N-Undecane	µg/m^3				0.40 U	0.40 U	-	0.40 U	-
Octane	µg/m^3				0.17 U	0.17 U	-	0.17 U	-
o-Xylene	µg/m^3		1000	2000	0.26 U	0.26 U	-	0.26 U	-
Pentane	µg/m^3		10000		0.18 U	1.1 J	-	0.48 J	-
Styrene	µg/m^3		10000		0.25 U	0.25 U	-	0.25 U	-

TABLE 4.13

SUMMARY OF ROUND 2 FOLLOW-UP RESIDENTIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Monitoring			*SS-38443-091312-GL-029*	*SS-38443-091212-GL-018*	*SSR-091212-GL-011*	*SS-38443-091212-GL-016*	*SSR-091212-GL-009*
Sample Date:		ELCR	HI	ODH SS Residential	*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*
	Units	***a***	***b***	***c***					
tert-Butyl alcohol	$\mu g/m^3$				0.12 UJ	0.14 J	-	0.14 J	-
tert-Butylbenzene	$\mu g/m^3$				0.36 U	0.36 U	-	0.36 U	-
Tetrachloroethene	$\mu g/m^3$	940	420	400	95	62	-	140	-
Tetrahydrofuran	$\mu g/m^3$				0.19 U	0.19 U	-	0.42 J	-
Toluene	$\mu g/m^3$		52000		0.20 U	0.28 J	-	0.32 J	-
trans-1,2-Dichloroethene	$\mu g/m^3$		630		0.20 U	0.20 U	-	0.20 U	-
trans-1,3-Dichloropropene[d]	$\mu g/m^3$	61	210		0.22 U	0.22 U	-	0.22 U	-
Trichloroethene	$\mu g/m^3$	43	21	20	0.19 U	0.19 U	-	0.19 U	-
Trichlorofluoromethane (CFC-11)	$\mu g/m^3$		7300		2.3	3.1	-	4.1	-
Trifluorotrichloroethane (Freon 113)	$\mu g/m^3$		310000		0.24 U	0.87 J	-	1.1 J	-
Vinyl bromide (Bromoethene)	$\mu g/m^3$	7.6	31		0.15 U	0.15 U	-	0.15 U	-
Vinyl chloride	$\mu g/m^3$	16	1000	10	0.18 U	0.18 U	-	0.18 U	-
Xylenes (total)	$\mu g/m^3$		1000		-	-	-	-	-
Fixed Gases									
Ethane	%				0.23 U	0.22 U	-	0.21 U	-
Ethene	%				0.23 U	0.22 U	-	0.21 U	-
Methane	%	0.5	0.5	0.5	0.20 U	0.19 U	-	0.19 U	-
Methane, field, filtered	%	0.5	0.5	0.5	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	-

TABLE 4.13

SUMMARY OF ROUND 2 FOLLOW-UP RESIDENTIAL SS ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3251, Probe A*	*Parcel 3262, Probe A*	*Parcel 3262, Probe A*	*Parcel 3263, Probe A*	*Parcel 3263, Probe A*
Sample ID:		Residential SVSL for Monitoring		ODH SS Residential	*SS-38443-091312-GL-029*	*SS-38443-091212-GL-018*	*SSR-091212-GL-011*	*SS-38443-091212-GL-016*	*SSR-091212-GL-009*
Sample Date:		ELCR	HI		*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*
	Units	***a***	***b***	***c***					
Radon									
Radon-222	pCi/L				-	-	1248 +/-62	-	831 +/-42

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

pCi/L - picoCuries per Liter

SVSL - Soil Vapor Screening Level

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

- - Not applicable.

The residential SVSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential Air. The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The SVSLs were derived from the USEPA (May 2012) RSLs by applying the USEPA Region 5 Vapor Intrusion Guidebook (Oct 2010) default soil-vapor-to-indoor-air attenuation factor of 0.1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

TABLE 4.14

SUMMARY OF ROUND 2 FOLLOW-UP RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

loc_name							*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15, Outdoor Air*	*Parcel 3251*	*Parcel 3262*	*Parcels 3262 & 3263, OA*	*Parcel 3251, IA_A*	*Parcel 3251, IA_A*	*Parcel 3262, IA_A*	*Parcel 3262, IA_A*	*Parcel 3263, IA_A*	*Parcel 3263, IA_A*
sample_name		Residential IASL For Mitigation and CSSL for Further Investigation		Residential IASL For Rapid Response		ODH IA Residential	*CS-38443-091112-GL-008*	*CS-38443-091112-GL-009*	*OA-38443-091112-GL-010*	*OA-38443-091312-GL-032*	*CS-38443-091212-GL-020*	*OA-38443-091212-GL-021*	*IA-38443-091312-GL-030*	*IA-38443-091312-GL-031*	*IA-38443-091212-GL-019*	*IAR-091212-GL-012*	*IA-38443-091212-GL-017*	*IAR-091212-GL-010*
Date							*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/13/2012*	*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*
sample_type		ELCR	HI	ELCR	HI			*Duplicate*						*Duplicate*				
	Units	*a*	*b*	*c*	*d*	*e*												
Cumulative Risk																		
Total HI	µg/m³		1		1		1	-	-	-	1	-	1	-	0	-	1	-
Total Risk	µg/m³	1E-5		1E-5			3E-05[a]	-	-	-	2E-05[a]	-	7E-06	-	1E-05	-	2E-05[ac]	-
Volatile Organic Compounds																		
1,1,1-Trichloroethane	µg/m³		5200		52000		0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	0.33 U	0.33 U	0.33 U	-	0.16 U	-
1,1,2,2-Tetrachloroethane	µg/m³	0.42		4.2			0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	0.84 U	0.84 U	-	0.42 U	-
1,1,2-Trichloroethane	µg/m³	1.5	0.21	15	2.1		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.59 U	0.59 U	0.59 U	-	0.29 U	-
1,1-Dichloroethane	µg/m³	15		150		15	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.11 U	0.21 U	0.21 U	0.21 U	-	0.11 U	-
1,1-Dichloroethene	µg/m³		210		2100		0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.13 U	0.25 U	0.25 U	0.25 U	-	0.13 U	-
1,2,4-Trichlorobenzene	µg/m³		2.1		21		0.87 J	0.73 UJ	0.73 U	0.73 UJ	0.73 UJ	0.73 U	1.5 UJ	1.5 UJ	1.5 U	-	0.73 U	-
1,2,4-Trimethylbenzene	µg/m³		7.3		73		0.42 J	3.7 J	0.31 U	1.1	1.0	0.99	1.4 J	1.7 J	0.72 J	-	6.8	-
1,2-Dibromoethane (Ethylene dibromide)	µg/m³	0.041	9.4	0.41	94		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.68 U	0.68 U	0.68 U	-	0.34 U	-
1,2-Dichlorobenzene	µg/m³		210		2100		0.48 J	0.42 U	0.42 U	0.42 U	0.42 U	0.42 U	0.84 U	0.84 U	0.84 U	-	0.42 U	-
1,2-Dichloroethane	µg/m³	0.94	7.3	9.4	73		0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.38 U	0.38 U	0.38 U	-	0.53 J	-
1,2-Dichloroethene (total)	µg/m³						-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	µg/m³	2.4	4.2	24	42		0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.48 U	0.48 U	-	0.24 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	µg/m³						0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.45 U	0.45 U	0.45 U	-	0.22 U	-
1,3,5-Trimethylbenzene	µg/m³						0.32 UJ	0.78 J	0.32 U	0.32 U	0.32 U	0.32 U	0.64 U	0.64 U	0.64 U	-	2.9	-
1,3-Butadiene	µg/m³	0.81	2.1	8.1	21		0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.14 U	0.28 U	0.28 U	0.28 U	-	0.14 U	-
1,3-Dichlorobenzene[a]	µg/m³	2.2	830	22	8300		0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.39 U	0.78 U	0.78 U	0.78 U	-	0.39 U	-
1,4-Dichlorobenzene	µg/m³	2.2	830	22	8300		0.38 U	0.38 U	0.38 UJ	0.38 U	0.38 U	0.38 UJ	0.77 U	0.77 U	0.77 UJ	-	2.0	-
1,4-Dioxane	µg/m³	3.2	3100	32	31000		0.29 U	0.29 U	0.29 UJ	0.29 U	0.29 U	0.29 UJ	0.58 U	0.58 U	0.58 UJ	-	0.29 U	-
2,2,4-Trimethylpentane	µg/m³						0.34 J	0.56 J	0.29 J	1.3 J	3.4	3.2	1.6 J	1.4 J	3.1 J	-	1.5 J	-
2-Butanone (Methyl ethyl ketone) (MEK)	µg/m³		5200		52000		4.3	4.4	1.7 J	2.0 J	2.3 J	1.5 J	13	15	1.6 J	-	17	-
2-Chlorotoluene	µg/m³						0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.33 U	0.65 U	0.65 U	0.65 U	-	0.33 U	-
2-Hexanone	µg/m³		31		310		0.27 J	0.25 J	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.48 U	0.48 U	-	0.25 J	-
2-Phenylbutane (sec-Butylbenzene)	µg/m³						0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.35 U	0.70 U	0.70 U	0.70 U	-	0.35 U	-
4-Ethyl toluene	µg/m³						0.32 UJ	0.78 J	0.32 U	0.37 J	0.37 J	0.45 J	0.65 U	0.65 U	0.65 U	-	3.4	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	µg/m³		3100		31000		0.38 J	0.18 UJ	0.23 J	16	0.29 J	0.42 J	0.37 U	0.37 U	0.49 J	-	0.49 J	-
Acetone	µg/m³		32000		320000		18	21	5.5 J	18	36	12 J	1600	1500	23 J	-	21 J	-
Allyl chloride	µg/m³	4.1	1	41	10		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.30 U	0.30 U	0.30 U	-	0.15 U	-
Benzene	µg/m³	3.1	31	31	310	1	0.53 J	0.59 J	0.46 J	1.2[e]	2.9[e]	2.0[e]	3.2[ae]	2.4[e]	2.7[e]	-	1.2[e]	-
Benzyl chloride	µg/m³	0.5	1	5	10		0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.81 U	0.81 U	0.81 U	-	0.40 U	-
Bromodichloromethane	µg/m³	0.66		6.6			0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.84 J[a]	0.69 J[a]	0.59 U	-	0.29 U	-
Bromoform	µg/m³	22		220			0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 UJ	0.99 U	0.99 U	0.99 UJ	-	0.50 U	-
Bromomethane (Methyl bromide)	µg/m³		5.2		52		0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.12 U	0.25 U	0.25 U	0.25 U	-	0.12 U	-
Butane	µg/m³						2.2	2.2	1.8	3.7	74	6.3	18	17	92	-	7.2	-
Carbon disulfide	µg/m³		730		7300		0.14 J	0.80 J	0.15 J	0.097 U	0.24 J	2.6	0.31 J	0.29 J	0.29 J	-	0.45 J	-
Carbon tetrachloride	µg/m³	4.1	100	41	1000		0.53 J	0.52 J	0.39 J	0.57 J	0.55 J	0.53 J	0.74 J	0.60 J	0.51 J	-	0.56 J	-
Chlorobenzene	µg/m³		52		520		0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.23 U	0.45 U	0.45 U	0.45 U	-	0.23 U	-
Chlorodifluoromethane	µg/m³		52000		520000		22	22	4.9	2.0	3.8	1.5	2.3	1.9	4.8	-	14	-
Chloroethane	µg/m³		10000		100000		0.092 U	0.092 U	0.092 U	0.092 U	0.092 U	0.36 J	0.18 U	0.18 U	0.18 U	-	0.092 U	-
Chloroform (Trichloromethane)	µg/m³	1.1	100	11	1000	100	0.74 J	0.73 J	0.66 J	20[ae]	1.1	0.69 J	670[abce]	580[abce]	1.1 J	-	1.2[a]	-
Chloromethane (Methyl chloride)	µg/m³		94		940		1.1	0.92 J	1.2	1.4	1.9	2.1	5.3	4.7	1.8 J	-	1.0	-
cis-1,2-Dichloroethene[b]	µg/m³		63		630	35	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.24 U	0.48 U	0.48 U	0.48 U	-	0.24 U	-
cis-1,3-Dichloropropene[c]	µg/m³	6.1	21	61	210		0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.34 U	0.67 U	0.67 U	0.67 U	-	0.34 U	-
Cyclohexane	µg/m³		6300		63000		0.37 J	0.33 J	0.34 J	0.80 J	3.8	1.3 J	1.3 J	1.1 J	4.7	-	0.80 J	-
Cymene (p-Isopropyltoluene)	µg/m³						0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.31 U	0.89 J	1.1 J	0.63 U	-	0.50 J	-
Dibromochloromethane	µg/m³	0.9		9			0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	0.72 U	0.72 U	-	0.36 U	-
Dichlorodifluoromethane (CFC-12)	µg/m³		100		1000		2.5	2.6	2.2	2.6	2.7	2.6	3.0	2.6	2.7	-	2.5	-
Ethylbenzene	µg/m³	9.7	1000	97	10000	300	0.39 J	0.72 J	0.33 J	1.1	1.6	1.1	3.1	3.2	1.2 J	-	0.76 J	-
Hexachlorobutadiene	µg/m³	1.1		11			0.83 UJ	0.83 UJ	0.83 U	0.83 UJ	0.83 UJ	0.83 U	1.7 UJ	1.7 UJ	1.7 U	-	0.83 U	-
Hexane	µg/m³		730		7300		0.70 J	0.66 J	0.69 J	1.9	10	5.2	2.3 J	2.2 J	13	-	2.7	-
Isopropyl alcohol	µg/m³						1.2 J	0.91 J	1.4 J	2.4 J	6.5	0.74 J	37	39	11	-	2.1 J	-
Isopropyl benzene	µg/m³		420		4200		0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.29 U	0.59 U	0.59 U	0.59 U	-	0.74 J	-
m&p-Xylenes	µg/m³		100		1000	200	1.3 J	3.5 J	1.0	3.8	5.5	3.7	8.9	10	3.9	-	2.7	-
Methyl methacrylate	µg/m³		730		7300		0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.32 U	0.65 U	0.65 U	0.65 U	-	0.32 U	-
Methyl tert butyl ether (MTBE)	µg/m³	94	3100	940	31000		0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	0.61 U	1.2 U	1.2 U	1.2 U	-	0.61 U	-
Methylene chloride	µg/m³	960	630	9600	6300		0.73 U	0.82 U	0.75 J	1.3 U	1.8 U	1.4 J	120	110	3.0 J	-	12	-
Naphthalene	µg/m³	0.72	3.1	7.2	31	3.67	0.53 J	2.7 J[a]	0.47 U	0.47 UJ	0.47 UJ	0.47 U	0.94 UJ	0.94 UJ	0.94 U	-	0.47 U	-
N-Butylbenzene	µg/m³						0.25 UJ	0.47 J	0.25 U	0.25 U	0.25 U	0.25 U	0.51 U	0.51 U	0.51 U	-	0.25 U	-
N-Decane	µg/m³						1.5 J	0.69 J	0.33 U	1.2 J	0.33 UJ	0.44 J	2.7 J	2.8 J	0.65 U	-	2.5 J	-
N-Dodecane	µg/m³						0.54 U	0.54 U	0.54 U	0.78 J	0.54 U	0.54 U	2.4 J	1.6 J	1.1 U	-	0.54 U	-
N-Heptane	µg/m³						0.82 J	0.79 J	1.0 J	2.4	4.7	2.7	11	9.7	5.5	-	1.2 J	-
Nonane	µg/m³		210		2100		0.23 U	0.29 J	0.23 U	0.35 J	0.38 J	0.28 J	2.2 J	2.4 J	0.45 U	-	1.0 J	-
N-Propylbenzene	µg/m³						0.28 U	0.37 J	0.28 U	0.28 U	0.28 U	0.28 U	0.55 U	0.55 U	0.55 U	-	1.5 J	-
N-Undecane	µg/m³						0.76 J	0.83 J	0.40 U	1.1 J	0.45 J	0.58 J	2.0 J	1.6 J	0.79 U	-	1.0 J	-

TABLE 4.14

SUMMARY OF ROUND 2 FOLLOW-UP RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS - SEPTEMBER 2012
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

loc_name							*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15*	*Parcel 2943, Unit 15, Outdoor Air*	*Parcel 3251*	*Parcel 3262*	*Parcels 3262 & 3263, OA*	*Parcel 3251, IA_A*	*Parcel 3251, IA_A*	*Parcel 3262, IA_A*	*Parcel 3262, IA_A*	*Parcel 3263, IA_A*	*Parcel 3263, IA_A*
sample_name		Residential IASL For Mitigation and CSSL for Further Investigation		Residential IASL For Rapid Response		ODH IA Residential	*CS-38443-091112-GL-008*	*CS-38443-091112-GL-009*	*OA-38443-091112-GL-010*	*OA-38443-091312-GL-032*	*CS-38443-091212-GL-020*	*OA-38443-091212-GL-021*	*IA-38443-091312-GL-030*	*IA-38443-091312-GL-031*	*IA-38443-091212-GL-019*	*IAR-091212-GL-012*	*IA-38443-091212-GL-017*	*IAR-091212-GL-010*
Date							*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/13/2012*	*9/13/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*
sample_type		ELCR	HI	ELCR	HI			*Duplicate*						*Duplicate*				
	Units	*a*	*b*	*c*	*d*	*e*												
Octane	µg/m^3						0.18 J	0.21 J	0.17 U	0.42 J	1.00 J	0.46 J	4.7	3.9	0.89 J	-	0.25 J	-
o-Xylene	µg/m^3		100		1000	200	0.48 J	1.6 J	0.39 J	1.4	1.8	1.3	2.4	2.8	1.4 J	-	1.8	-
Pentane	µg/m^3		1000		10000		2.0 J	1.7 J	1.3 J	4.4	31	7.6	24	21	29	-	4.9	-
Styrene	µg/m^3		1000		10000		0.25 U	0.25 U	0.25 U	0.25 U	1.8	0.25 U	13	16	2.1	-	1.8	-
tert-Butyl alcohol	µg/m^3						0.31 J	0.20 J	0.12 U	0.12 J	0.12 UJ	0.12 U	1.7 J	1.8 J	0.25 J	-	0.44 J	-
tert-Butylbenzene	µg/m^3						0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.36 U	0.72 U	0.72 U	0.72 U	-	0.36 U	-
Tetrachloroethene	µg/m^3	94	42	940	420	40	0.43 J	0.27 U	0.27 U	0.86 J	3.2	0.54 J	4.7	3.9	5.3	-	1.0 J	-
Tetrahydrofuran	µg/m^3						0.25 J	0.24 J	0.19 U	0.20 J	0.19 J	0.19 U	1.9 J	2.1 J	0.37 U	-	24	-
Toluene	µg/m^3		5200		52000		1.8	2.5	1.6	6.1	13	7.9	20	18	10	-	13	-
trans-1,2-Dichloroethene	µg/m^3		63		630		0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.20 U	0.40 U	0.40 U	0.40 U	-	0.20 U	-
trans-1,3-Dichloropropene[d]	µg/m^3	6.1	21	61	210		0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.22 U	0.44 U	0.44 U	0.44 U	-	0.22 U	-
Trichloroethene	µg/m^3	4.3	2.1	43	21	2	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.19 U	0.39 U	0.39 U	0.39 U	-	0.19 U	-
Trichlorofluoromethane (CFC-11)	µg/m^3		730		7300		1.8	1.9	1.5	2.0	2.0	1.9	2.7	2.5	2.0 J	-	1.7	-
Trifluorotrichloroethane (Freon 113)	µg/m^3		31000		310000		0.53 J	0.58 J	0.49 J	0.63 J	0.59 J	0.59 J	0.64 J	0.59 J	0.60 J	-	0.54 J	-
Vinyl bromide (Bromoethene)	µg/m^3	0.76	3.1	7.6	31		0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.15 U	0.31 U	0.31 U	0.31 U	-	0.15 U	-
Vinyl chloride	µg/m^3	1.6	100	16	1000	1	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.18 U	0.36 U	0.36 U	0.36 U	-	0.18 U	-
Xylenes (total)	µg/m^3		100		1000		-	-	-	-	-	-	-	-	-	-	-	-
Fixed Gases																		
Ethane	%						0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.24 U	0.20 U	0.20 U	0.20 U	-	0.21 U	-
Ethene	%						0.20 U	0.20 U	0.20 U	0.20 U	0.22 U	0.24 U	0.20 U	0.20 U	0.20 U	-	0.21 U	-
Methane	%	0.05	0.05	0.05	0.05	0.05	0.18 U	0.18 U	0.18 U	0.18 U	0.20 U	0.21 U	0.18 U	0.18 U	0.18 U	-	0.19 U	-
Methane, field, filtered	%	0.05	0.05	0.05	0.05	0.05	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	0.0 Dup 0.0	-	0.0 Dup 0.0	-
Radon																		
Radon-222	pCi/L						-	-	-	-	-	-	-	-	-	1.88 +/-0.11	-	7.68 +/-0.38

Notes:

All concentrations are expressed in units of micrograms per cubic meter (µg/m3) unless otherwise noted.

0.0 Dup 0.0 - field methane values measured at the start and end of sampling.
CSSL - Crawl Space Screening Level
IASL - Indoor Air Screening Level

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

ODH - Ohio Department of Health

pCi/L - picoCuries per Liter
U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

UJ - The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate.

- - Not applicable.

The Residential IASLs and CSSLs are based on the USEPA 2012 Regional Screening Levels (May 2012) for Residential Air
The RSLs are derived assuming a 10^{-6} target estimated lifetime cancer risk level or a hazard index of 1.

The CSSLs were derived from the USEPA (May 2012) RSLs by applying default crawl-space-to-indoor-air attenuation factor of 1.

[a] = An RSL is not available for 1,3-dichlorobenzene; the RSL for 1,4-dichlorobenzene was considered an evaluation surrogate for 1,3-dichlorobenzene.

[b] = An RSL is not available for cis-1,2-dichloroethene; the RSL for trans-1,2-dichloroethene was considered an evaluation surrogate for cis-1,2-dichloroethene.

[c] = An RSL is not available for cis-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for cis-1,3-dichloropropene.

[d] = An RSL is not available for trans-1,3-dichloropropene; the RSL for 1,3-dichloropropene was considered an evaluation surrogate for trans-1,3-dichloropropene.

[ ] - Concentration was greater than applicable criteria.

TABLE 4.15

SUMMARY OF SOIL VAPOR RISKS AND HAZARD INDICES BASED ON INDUSTRIAL SCENARIO
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Sample ID:*	*Sample Date:*	*Total Risk*	*Total HI*
Parcel 3207, Bldg 1, Probe A	SS-38443-010712-JC-032	01/07/12	5E-06	0
Parcel 3207, Bldg 1, Probe B	SS-38443-010712-JC-034	01/07/12	2E-08	0
Parcel 3207, Bldg 1, Probe C	SS-38443-010712-JC-033	01/07/12	2E-06	0
Parcel 3207, Bldg 1, Probe D	SS-38443-010712-JC-030	01/07/12	1E-07	0
Parcel 3207, Bldg 1, Probe E	SS-38443-010712-JC-031	01/07/12	8E-08	0
Parcel 3207, Bldg 2, Probe A	SS-38443-010712-JC-035	01/07/12	2E-06	1
Parcel 3207, Bldg 2, Probe B	SS-38443-010712-JC-041	01/07/12	9E-06	**3**
Parcel 3207, Bldg 2, Probe C	SS-38443-010712-JC-039	01/07/12	5E-07	0
Parcel 3207, Bldg 2, Probe D	SS-38443-010712-JC-038	01/07/12	1E-07	0
Parcel 3207, Bldg 2, Probe E	SS-38443-010712-JC-036	01/07/12	8E-08	0
Parcel 3207, Bldg 2, Probe F	SS-38443-010712-JC-037	01/07/12	4E-08	0
Parcel 3254, Bldg 1, Probe A	SS-38443-010512-JC-015	01/05/12	4E-08	0
Parcel 3254, Bldg 1, Probe B	SS-38443-010512-JC-014	01/05/12	2E-07	0
Parcel 4610, Bldg B	SS-38443-010412-GL-006	01/04/12	3E-08	0
Parcel 4610, Bldg E, Probe A	SS-38443-010412-GL-004	01/04/12	2E-08	0
Parcel 4610, Bldg E, Probe B	SS-38443-010412-JC-005	01/04/12	0E+00	0
Parcel 5054, Bldg 1	SS-38443-011012-JC-057	01/10/12	1E-04	**38**
Parcel 5054, Bldg 2, Probe B	SS-38443-011012-JC-050	01/10/12	4E-06	1
Parcel 5054, Bldg 4	SS-38443-011012-JC-055	01/10/12	9E-06	**3**
Parcel 5054, Bldg 5	SS-38443-011012-JC-054	01/10/12	**5E-05**	**15**
Parcel 5171, Bldg 1, Probe A	SS-38443-011112-JC-069	01/11/12	**3E-04**	**83**
Parcel 5171, Bldg 1, Probe B	SS-38443-011112-JC-065	01/11/12	8E-06	**2**
Parcel 5171, Bldg 1, Probe C	SS-38443-011112-JC-066	01/11/12	3E-06	1
Parcel 5171, Bldg 1, Probe D	SS-38443-011112-JC-064	01/11/12	**8E-05**	**25**
Parcel 5171, Bldg 1, Probe F	SS-38443-011112-JC-067	01/11/12	1E-06	0
Parcel 5171, Bldg 2, Probe A	SS-38443-011112-JC-061	01/11/12	**3E-04**	**112**
Parcel 5171, Bldg 2, Probe B	SS-38443-011112-JC-063	01/11/12	2E-06	0
Parcel 5172 / 1 / A Overstreet	SS-38443-010612-JC-022	01/06/12	**5E-04**	**148**
Parcel 5172 / 1 / A S&J	SS-38443-010612-JC-024	01/06/12	**2E-04**	**81**
Parcel 5172 / 1 / B Overstreet	SS-38443-010612-JC-021	01/06/12	**6E-04**	**171**
Parcel 5172 / 1 / B S&J	SS-38443-010612-JC-025	01/06/12	**1E-03**	**341**
Parcel 5172 / 1 / C S&J	SS-38443-010612-JC-026	01/06/12	**4E-05**	**14**
Parcel 5172 / 1 / D S&J	SS-38443-010612-JC-027	01/06/12	**2E-04**	**72**
Parcel 5172, Bldg 2, Probe A	SS-38443-010612-JC-018	01/06/12	**3E-05**	0
Parcel 5172, Bldg 2, Probe B	SS-38443-010612-JC-019	01/06/12	4E-06	0
Parcel 5172, Bldg 2, Probe C	SS-38443-010612-JC-020	01/06/12	1E-06	0
Parcel 5172 / 3 / A Overstreet	SS-38443-010912-JC-042	01/09/12	**4E-05**	**15**
Parcel 5173, Bldg 1, Probe A	SS-38443-011212-JC-074	01/12/12	**7E-05**	**24**
Parcel 5173, Bldg 1, Probe B	SS-38443-011212-JC-071	01/12/12	**1E-04**	**42**
Parcel 5173, Bldg 1, Probe C	SS-38443-011212-JC-073	01/12/12	**2E-04**	**20**
Parcel 5174, Bldg 1, Probe A	SS-38443-010512-GL-009	01/05/12	1E-07	0
Parcel 5174, Bldg 1, Probe C	SS-38443-010512-GL-011	01/05/12	**3E-05**	**11**
Parcel 5175, Bldg 1, Probe A	SS-38443-010912-JC-044	01/09/12	5E-06	**2**
Parcel 5175, Bldg 1, Probe B	SS-38443-010912-JC-045	01/09/12	4E-06	1
Parcel 5175, Bldg 1, Probe C	SS-38443-010912-JC-046	01/09/12	6E-08	0

TABLE 4.15

SUMMARY OF SOIL VAPOR RISKS AND HAZARD INDICES BASED ON INDUSTRIAL SCENARIO
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Sample ID:*	*Sample Date:*	*Total Risk*	*Total HI*
Parcel 3207, Bldg 1, Probe A	SS-38443-031012-JC-132	03/12/12	1E-06	0
Parcel 3207, Bldg 1, Probe B	SS-38443-031012-JC-135	03/12/12	4E-08	0
Parcel 3207, Bldg 1, Probe C	SS-38443-031012-JC-136	03/12/12	1E-06	0
Parcel 3207, Bldg 1, Probe D	SS-38443-031012-JC-138	03/12/12	2E-07	0
Parcel 3207, Bldg 1, Probe E	SS-38443-031012-JC-139	03/12/12	1E-07	0
Parcel 3207, Bldg 2, Probe A	SS-38443-031012-JC-141	03/10/12	2E-06	1
Parcel 3207, Bldg 2, Probe B	SS-38443-031012-JC-143	03/12/12	6E-06	**2**
Parcel 3207, Bldg 2, Probe C	SS-38443-031012-JC-146	03/10/12	4E-07	0
Parcel 3207, Bldg 2, Probe D	SS-38443-031012-JC-149	03/10/12	7E-08	0
Parcel 3207, Bldg 2, Probe E	SS-38443-031012-JC-150	03/10/12	1E-07	0
Parcel 3207, Bldg 2, Probe F	SS-38443-031012-JC-152	03/10/12	2E-08	0
Parcel 5054, Bldg 1 Probe A	SS-38443-031312-JC-156	03/13/12	**6E-05**	**22**
Parcel 5054, Bldg 2, Probe A	SS-38443-031312-JC-159	03/13/12	**2E-05**	1
Parcel 5054, Bldg 2, Probe B	SS-38443-031312-JC-163	03/13/12	7E-06	**2**
Parcel 5054, Bldg 4, Probe A	SS-38443-031312-JC-168	03/13/12	1E-05	**4**
Parcel 5054, Bldg 5, Probe A	SS-38443-031312-JC-172	03/13/12	**7E-05**	**22**
Parcel 5171, Bldg 1, Probe A	SS-38443-031412-JC-184	03/14/12	**2E-04**	**59**
Parcel 5171, Bldg 1, Probe B	SS-38443-031412-JC-185	03/14/12	7E-06	**2**
Parcel 5171, Bldg 1, Probe C	SS-38443-031412-JC-187	03/14/12	5E-06	1
Parcel 5171, Bldg 1, Probe D	SS-38443-031412-JC-188	03/14/12	**7E-05**	**24**
Parcel 5171, Bldg 1, Probe F	SS-38443-031412-JC-191	03/14/12	1E-06	0
Parcel 5171, Bldg 2, Probe A	SS-38443-032712-JC-194	03/27/12	**5E-04**	**182**
Parcel 5171, Bldg 2, Probe B	SS-38443-031412-JC-196	03/14/12	2E-06	1
Parcel 5172 / 1 / A Overstreet	SS-38443-031512-JC-216	03/15/12	**5E-04**	**159**
Parcel 5172 / 1 / B Overstreet	SS-38443-031512-JC-218	03/15/12	**1E-03**	**330**
Parcel 5172 / 1 / A S&J	SS-38443-030712-JC-112	03/07/12	**3E-04**	**87**
Parcel 5172 / 1 / B S&J	SS-38443-030712-JC-113	03/07/12	**1E-03**	**341**
Parcel 5172 / 1 / C S&J	SS-38443-030712-JC-115	03/07/12	**3E-05**	**11**
Parcel 5172 / 1 / D S&J	SS-38443-030712-JC-117	03/07/12	**2E-04**	**57**
Parcel 5172, Bldg 2, Probe A	SS-38443-032812-JC-225	03/28/12	**1E-04**	1
Parcel 5172, Bldg 2, Probe B	SS-38443-032712-JC-227	03/27/12	6E-06	0
Parcel 5172, Bldg 2, Probe C	SS-38443-032712-JC-229	03/27/12	5E-06	**2**
Parcel 5172, Bldg 3, Probe A	SS-38443-031512-JC-221	03/15/12	**1E-04**	**45**
Parcel 5173, Bldg 1, Probe A	SS-38443-031312-JC-176	03/13/12	**7E-05**	**24**
Parcel 5173, Bldg 1, Probe B	SS-38443-031312-JC-178	03/13/12	**1E-04**	**42**
Parcel 5173, Bldg 1, Probe C	SS-38443-031312-JC-180	03/13/12	**3E-04**	**28**
Parcel 5174, Bldg 1, Probe A	SS-38443-030712-JC-103	03/07/12	1E-07	0
Parcel 5174, Bldg 1, Probe B	SS-38443-030612-JC-087	03/06/12	6E-06	**2**
Parcel 5174, Bldg 1, Probe C	SS-38443-030612-JC-090	03/06/12	**3E-05**	**10**
Parcel 5174, Bldg 1, Probe D	SS-38443-030612-JC-091	03/06/12	8E-07	0
Parcel 5174, Bldg 1, Probe E	SS-38443-030612-JC-093	03/06/12	7E-06	1
Parcel 5175, Bldg 1, Probe A	SS-38443-030712-JC-106	03/07/12	5E-06	1
Parcel 5175, Bldg 1, Probe B	SS-38443-030712-JC-108	03/07/12	4E-06	1
Parcel 5175, Bldg 1, Probe C	SS-38443-030712-JC-109	03/07/12	4E-08	0

TABLE 4.15

SUMMARY OF SOIL VAPOR RISKS AND HAZARD INDICES BASED ON INDUSTRIAL SCENARIO
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Sample ID:*	*Sample Date:*	*Total Risk*	*Total HI*
Parcel 3207, Bldg 1, Probe A	SS-38443-081112-GL-072	08/11/12	3E-06	0
Parcel 3207, Bldg 1, Probe B	SS-38443-081112-GL-073	08/11/12	1E-07	0
Parcel 3207, Bldg 1, Probe C	SS-38443-081112-GL-074	08/11/12	2E-06	0
Parcel 3207, Bldg 1, Probe D	SS-38443-081112-GL-076	08/11/12	3E-07	0
Parcel 3207, Bldg 1, Probe E	SS-38443-081112-GL-077	08/11/12	3E-07	0
Parcel 3207, Bldg 2, Probe A	SS-38443-081112-GL-083	08/11/12	3E-06	1
Parcel 3207, Bldg 2, Probe B	SS-38443-081112-GL-085	08/11/12	1E-05	**3**
Parcel 3207, Bldg 2, Probe C	SS-38443-081112-GL-086	08/11/12	3E-07	0
Parcel 3207, Bldg 2, Probe D	SS-38443-081112-GL-088	08/11/12	1E-07	0
Parcel 3207, Bldg 2, Probe E	SS-38443-081112-GL-090	08/11/12	6E-07	0
Parcel 3207, Bldg 2, Probe F	SS-38443-081112-GL-093	08/11/12	6E-08	0
Parcel 3254, Bldg 1, Probe A	SS-38443-073112-GL-003	07/31/12	3E-07	0
Parcel 3254, Bldg 1, Probe A	SS-38443-091212-GL-011	09/12/12	2E-07	0
Parcel 3254, Bldg 1, Probe B	SS-38443-073112-GL-004	07/31/12	1E-06	0
Parcel 3254, Bldg 1, Probe B	SS-38443-091212-GL-013	09/12/12	9E-07	0
Parcel 4610, Bldg B	SS-38443-073112-GL-005	07/31/12	4E-07	0
Parcel 4610, Bldg E, Probe A	SS-38443-073112-GL-006	07/31/12	2E-07	0
Parcel 4610, Bldg E, Probe B	SS-38443-073112-GL-007	07/31/12	1E-06	0
Parcel 5054, Bldg 1 Probe A	SS-38443-080612-GL-055	08/06/12	**5E-04**	**171**
Parcel 5054, Bldg 4, Probe A	SS-38443-080612-GL-048	08/06/12	**3E-05**	**11**
Parcel 5054, Bldg 4, Probe A	SS-38443-091312-GL-022	09/13/12	**4E-05**	**13**
Parcel 5054, Bldg 5, Probe A	SS-38443-080612-GL-052	08/06/12	**1E-04**	**43**
Parcel 5171, Bldg 1, Probe A	SS-38443-080712-GL-060	08/07/12	**3E-04**	**109**
Parcel 5171, Bldg 1, Probe B	SS-38443-080712-GL-062	08/07/12	**2E-05**	**7**
Parcel 5171, Bldg 1, Probe C	SS-38443-080712-GL-063	08/07/12	1E-05	**2**
Parcel 5171, Bldg 1, Probe D	SS-38443-080712-GL-065	08/07/12	**2E-04**	**57**
Parcel 5171, Bldg 1, Probe F	SS-38443-080712-GL-066	08/07/12	8E-07	0
Parcel 5172, Bldg 2, Probe A	SS-38443-080212-GL-030	08/02/12	**7E-04**	**6**
Parcel 5172, Bldg 2, Probe B	SS-38443-080212-GL-033	08/02/12	1E-05	1
Parcel 5172, Bldg 2, Probe C	SS-38443-080212-GL-035	08/02/12	3E-07	0
Parcel 5174, Bldg 1, Probe A	SS-38443-080212-GL-038	08/02/12	1E-06	0
Parcel 5174, Bldg 1, Probe B	SS-38443-080312-GL-040	08/03/12	**5E-05**	**18**
Parcel 5174, Bldg 1, Probe C	SS-38443-080312-GL-042	08/03/12	**3E-04**	**94**
Parcel 5174, Bldg 1, Probe D	SS-38443-080312-GL-044	08/03/12	6E-06	**2**
Parcel 5174, Bldg 1, Probe E	SS-38443-080312-GL-045	08/03/12	2E-06	0
Parcel 5174, Bldg 1, Probe E	SS-38443-091412-GL-026	09/14/12	6E-06	**2**
Parcel 5175, Bldg 1, Probe A	SS-38443-080112-GL-029	08/01/12	**2E-05**	**8**
Parcel 5175, Bldg 1, Probe B	SS-38443-080112-GL-020	08/01/12	**2E-05**	**8**
Parcel 5175, Bldg 1, Probe C	SS-38443-080112-GL-018	08/01/12	4E-07	0
Parcel 5223, Bldg 1, Probe A	SS-38443-073012-GL-001	07/30/12	2E-06	1
Parcel 5223, Bldg 1, Probe A	SS-38443-091112-GL-003	09/11/12	2E-06	0
Parcel 5223, Bldg 1, Probe B	SS-38443-073012-GL-002	07/30/12	**2E-05**	0
Parcel 5223, Bldg 1, Probe B	SS-38443-091112-GL-001	09/11/12	3E-08	0

Note:

BOLD Calculated total risk or hazard index (HI) exceeds target risk of 1E-05 or target HI of 1, respectively.

TABLE 4.16

SUMMARY OF INDOOR AIR RISKS AND HAZARD INDICES BASED ON INDUSTRIAL SCENARIO
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Sample ID:*	*Sample Date:*	*Total Risk*	*Total HI*
Parcel 5054, Bldg MP	CS-38443-011012-JC-052	01/10/12	2E-06	0
Parcel 5171, Bldg 4	CS-38443-011112-JC-060	01/12/12	2E-06	0
Parcel 3207, Bldg 1, IA_A	IA-38443-031012-JC-131	03/12/12	6E-07	0
Parcel 3207, Bldg 1, Cubicles	IA-38443-031012-JC-133	03/12/12	1E-06	0
Parcel 3207, Bldg 1, IA_D	IA-38443-031012-JC-137	03/12/12	6E-07	0
Parcel 3207, Bldg 2, IA_A	IA-38443-031012-JC-140	03/10/12	3E-06	0
Parcel 3207, Bldg 2, IA_C	IA-38443-031012-JC-144	03/10/12	3E-06	0
Parcel 3207, Bldg 2, IA_D	IA-38443-031012-JC-148	03/10/12	1E-06	0
Parcel 3207, Bldg 2, IA_F	IA-38443-031012-JC-151	03/10/12	2E-06	0
Parcel 5054, Bldg 1, IA	IA-38443-031312-JC-155	03/13/12	1E-06	0
Parcel 5054, Bldg 2, IA_A	IA-38443-031312-JC-158	03/13/12	1E-06	0
Parcel 5054, Bldg 2, IA_B	IA-38443-031312-JC-161	03/13/12	1E-06	0
Parcel 5054, Bldg 4, IA 1st Fl.	IA-38443-031312-JC-166	03/13/12	7E-06	0
Parcel 5054, Bldg 4, IA Basement	IA-38443-031312-JC-167	03/13/12	9E-06	1
Parcel 5054, Bldg 5, IA	IA-38443-031312-JC-171	03/13/12	9E-07	**64**
Parcel 5171, Bldg 1, IA_D	IA-38443-031412-JC-186	03/14/12	3E-06	**8**
Parcel 5171, Bldg 1, IA_F	IA-38443-031412-JC-190	03/14/12	0E+00	**5**
Parcel 5171, Bldg 1, IA_Office	IA-38443-031412-JC-183	03/14/12	0E+00	**7**
Parcel 5171, Bldg 2, IA_A	IA-38443-032712-JC-193	03/27/12	**2E-05**	**12**
Parcel 5171, Bldg 2, IA_B	IA-38443-031412-JC-195	03/14/12	0E+00	**46**
Parcel 5172 / 1 / IA_A Overstreet	IA-38443-031512-JC-215	03/15/12	**3E-05**	**4**
Parcel 5172 / 1 / IA_B Overstreet	IA-38443-031512-JC-217	03/15/12	**4E-05**	**6**
Parcel 5172 / 1 / IA_A S&J	IA-38443-030712-JC-111	03/07/12	9E-06	**2**
Parcel 5172 / 1 / IA_C S&J	IA-38443-030712-JC-114	03/07/12	5E-06	1
Parcel 5172 / 1 / IA_D S&J	IA-38443-030712-JC-116	03/07/12	9E-06	**2**
Parcel 5172, Bldg 2, IA_A	IA-38443-032712-JC-224	03/27/12	5E-06	0
Parcel 5172, Bldg 2, IA_B	IA-38443-032712-JC-226	03/27/12	9E-06	0
Parcel 5172, Bldg 2, IA_C	IA-38443-032712-JC-228	03/27/12	7E-06	0
Parcel 5172, Bldg 3, IA	IA-38443-031512-JC-220	03/15/12	2E-06	**9**
Parcel 5173, Bldg 1, IA_A	IA-38443-031312-JC-175	03/13/12	**2E-05**	**3**
Parcel 5173, Bldg 1, IA_B	IA-38443-031312-JC-177	03/13/12	3E-06	0
Parcel 5173, Bldg 1, IA_C	IA-38443-031312-JC-179	03/13/12	4E-06	1
Parcel 5174, Bldg 1, IA_A	IA-38443-030612-JC-086	03/06/12	2E-06	0
Parcel 5174, Bldg 1, IA_C	IA-38443-030612-JC-088	03/06/12	3E-06	0
Parcel 5174, Bldg 1, IA_E	IA-38443-030612-JC-092	03/06/12	1E-06	0
Parcel 5175, Bldg 1, IA_A	IA-38443-030712-JC-105	03/07/12	6E-07	0
Parcel 5175, Bldg 1, IA_B	IA-38443-030712-JC-107	03/07/12	7E-07	0

TABLE 4.16

SUMMARY OF INDOOR AIR RISKS AND HAZARD INDICES BASED ON INDUSTRIAL SCENARIO
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Sample ID:*	*Sample Date:*	*Total Risk*	*Total HI*
Parcel 3207, Bldg 1, IA_A	IA-38443-081112-GL-078	08/11/12	2E-06	0
Parcel 3207, Bldg 1, Cubicles	IA-38443-081112-GL-081	08/11/12	3E-06	0
Parcel 3207, Bldg 1, IA_D	IA-38443-081112-GL-079	08/11/12	2E-06	0
Parcel 3207, Bldg 2, IA_A	IA-38443-081112-GL-084	08/11/12	5E-06	1
Parcel 3207, Bldg 2, IA_C	IA-38443-081112-GL-087	08/11/12	6E-06	0
Parcel 3207, Bldg 2, IA_D	IA-38443-081112-GL-089	08/11/12	4E-06	0
Parcel 3207, Bldg 2, IA_F	IA-38443-081112-GL-094	08/11/12	6E-06	0
Parcel 3254, Bldg 1, IA_A	IA-38443-091212-GL-012	09/12/12	9E-06	1
Parcel 3254, Bldg 1, IA_B	IA-38443-091212-GL-014	09/12/12	5E-06	1
Parcel 5054, Bldg 1, IA	IA-38443-080612-GL-056	08/06/12	**2E-05**	**5**
Parcel 5054, Bldg 4, IA 1st Fl.	IA-38443-080612-GL-050	08/06/12	5E-06	0
Parcel 5054, Bldg 4, IA 1st Fl.	IA-38443-091312-GL-023	09/13/12	2E-06	0
Parcel 5054, Bldg 4, IA Basement	IA-38443-091312-GL-024	09/13/12	4E-07	0
Parcel 5054, Bldg 5, IA	IA-38443-080612-GL-054	08/06/12	2E-06	1
Parcel 5054, Bldg MP	CS-38443-080612-GL-057	08/06/12	7E-06	**2**
Parcel 5171, Bldg 1, IA_C	IA-38443-080712-GL-064	08/07/12	2E-06	0
Parcel 5171, Bldg 1, IA_F	IA-38443-080712-GL-067	08/07/12	1E-05	1
Parcel 5171, Bldg 1, IA_Office	IA-38443-080712-GL-061	08/07/12	5E-06	1
Parcel 5171, Bldg 4	CS-38443-080712-GL-069	08/07/12	3E-06	1
Parcel 5172, Bldg 2, IA_A	IA-38443-080212-GL-032	08/02/12	**2E-05**	1
Parcel 5172, Bldg 2, IA_B	IA-38443-080212-GL-034	08/02/12	**2E-05**	1
Parcel 5172, Bldg 2, IA_C	IA-38443-080212-GL-036	08/02/12	**2E-05**	1
Parcel 5174, Bldg 1, IA_A	IA-38443-080312-GL-039	08/03/12	1E-05	1
Parcel 5174, Bldg 1, IA_C	IA-38443-080312-GL-043	08/03/12	4E-06	0
Parcel 5174, Bldg 1, IA_E	IA-38443-080312-GL-046	08/03/12	**9E-05**	**31**
Parcel 5174, Bldg 1, IA_E	IA-38443-091412-GL-027	09/14/12	4E-06	0
Parcel 5175, Bldg 1, IA_A	IA-38443-080112-GL-022	08/01/12	2E-06	0
Parcel 5175, Bldg 1, IA_B	IA-38443-080112-GL-021	08/01/12	4E-06	0
Parcel 5223, Bldg 1, IA_A	IA-38443-091112-GL-005	09/11/12	1E-05	0
Parcel 5223, Bldg 1, IA_B	IA-38443-091112-GL-002	09/11/12	2E-06	0

Note:

BOLD Calculated total risk or hazard index (HI) exceeds target risk of 1E-05 or target HI of 1, respectively.

TABLE 4.17

SUMMARY OF SOIL VAPOR RISKS AND HAZARD INDICES BASED ON RESIDENTIAL SCENARIO
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Sample ID:*	*Sample Date:*	*Total Risk*	*Total HI*
Parcel 3251, Probe A	SS-38443-080112-GL-025	08/01/12	4E-06	0
Parcel 3251, Probe A	SS-38443-091312-GL-029	09/13/12	5E-06	0
Parcel 3262, Probe A	SS-38443-080112-GL-026	08/01/12	2E-06	0
Parcel 3262, Probe A	SS-38443-091212-GL-018	09/12/12	7E-07	0
Parcel 3263, Probe A	SS-38443-080112-GL-024	08/01/12	2E-06	0
Parcel 3263, Probe A	SS-38443-091212-GL-016	09/12/12	2E-06	0

Note:

BOLD Calculated total risk or hazard index (HI) exceeds target risk of 1E-05 or target HI of 1, respectively.

TABLE 4.18

SUMMARY OF INDOOR AIR RISKS AND HAZARD INDICES BASED ON RESIDENTIAL SCENARIO
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:	*Sample ID:*	*Sample Date:*	*Total Risk*	*Total HI*
Parcel 3253, Bldg 1	IA-38443-010312-GL-001	01/03/12	5E-06	0
Parcel 3253, Bldg 1	IA-38443-010312-GL-002	01/03/12	5E-06	0
Parcel 4610, Bldg A	CS-38443-011212-JC-076	01/12/12	4E-06	0
Parcel 4610, Bldg A	CS-38443-011212-JC-075	01/13/12	3E-06	0
Parcel 2943, Unit 112	CS-38443-073112-GL-008	07/31/12	1E-05	0
Parcel 2943, Unit 15	CS-38443-073112-GL-011	07/31/12	**2E-05**	0
Parcel 2943, Unit 15	CS-38443-091112-GL-008	09/11/12	**3E-05**	1
Parcel 3251, IA_A	IA-38443-091312-GL-030	09/13/12	7E-06	1
Parcel 3253, Bldg 1	IA-38443-073112-GL-013	07/31/12	**2E-05**	1
Parcel 3262	CS-38443-080112-GL-027	08/01/12	**3E-05**	1
Parcel 3262	CS-38443-091212-GL-020	09/12/12	**2E-05**	1
Parcel 3262, IA_A	IA-38443-091212-GL-019	09/12/12	1E-05	0
Parcel 3263, IA_A	IA-38443-091212-GL-017	09/12/12	**2E-05**	1
Parcel 4610, Bldg A	CS-38443-073112-GL-015	07/31/12	1E-05	0

Note:

BOLD Calculated total risk or hazard index (HI) exceeds target risk of 1E-05 or target HI of 1, respectively.