Memorandum

To:	Steve Renninger, USEPA Jenny Davison, USEPA Leslie Patterson, USEPA;	Ref. No.:	038443-62-03
From:	Julian Hayward/Valerie Chan/wg/29	Date:	December 2, 2015
cc:	Madelyn Adams, Ohio EPA; Lauren Foster, Tetra-Tech; Brandon Helm; Tetra-Tech; Tom Hut, PHDMC		
Re:	**Summary of July 2015 Vapor Intrusion Analytical Results and Proposed Sub-Slab Depressurization System (SSDS) Modifications**		

1. Introduction

GHD has prepared this technical memorandum to present proposed sub-slab depressurization system (SSDS) modifications and sampling frequency based on the July 2015 sampling results and system evaluations for the South Dayton Dump and Landfill Site (Site) located in Moraine, Ohio. This memorandum is in response to the meetings with the United States Environmental Protection Agency (USEPA) on June 8, 2015 and September 10, 2015 in Riverside, Ohio where GHD and USEPA discussed the proposed SSDS modifications. GHD is submitting this memorandum on behalf of the Respondents to the Administrative Settlement and Order on Consent (ASAOC) for Removal Action Proceeding Under Sections 104, 106(a), 107, and 122 of the CERCLA, 42 U.S.C §§ 9604, 9606(a), 9607, and 9622 USEPA Docket No. V-W-13-C-010, effective April 8, 2013.

This memorandum includes information for Buildings 8, 9, 12, 14, 15, and 24. GHD visited the Site on July 13 to 16, 2015, to perform the vapor intrusion (VI) sampling and to assess the feasibility of proposed SSDS modifications. GHD determined suitable system modifications, including new stemline suction points, extraction points, and valves based on the following criteria:

- Detected indoor air (IA) chemicals of concerns (COCs) vs. detected sub-slab (SS) soil vapor chemicals of concern (COCs)
- Background IA concentrations
- Attenuation factors (AF)
- Historic pressure readings at IA and SS sampling locations
- System vacuum readings at extraction points
- Installation feasibility

2. System Modification Design Considerations

2.1 Detected IA vs. SS COCs

GHD assessed all sampling event data collected to date to verify if SS COCs were present in corresponding IA samples. The presence of COCs in the SS sample and corresponding IA sample determines if a VI pathway is complete and the need for risk evaluation. The absence of a COC in a corresponding IA sample indicates that the VI pathway for that COC is incomplete or is due to the effectiveness of the mitigation system, and therefore, further risk evaluation is not required.

2.2 Background IA Concentrations

GHD evaluated background IA concentrations to determine if detected COCs in the IA samples collected to date were potentially related to VI or site-specific business operations. Background IA concentrations were obtained from, "Background Indoor Air Concentrations of Volatile Organic Compounds in North American Residences (1990-2005): A Compilation of Statistics for Assessing Vapor Intrusion", June 2011. It is noted that the typical background concentrations in residential buildings may not be representative of IA quality for commercial or industrial buildings where chemicals are stored and used.

2.3 Attenuation Factors

GHD calculated AFs between SS soil vapor and IA results using the July 2015 radon concentrations to further evaluate concentrations similarities between SS and IA results which indicated potential vapor intrusion pathway conduits at select locations (SS-15-A and SS-12-OP-B).

2.4 Historic Vacuum Readings

GHD evaluated all vacuum readings measured at or in close proximity to SS for all IA or SS samples following sub-slab depressurization system (SSDS) start-up. This was done to evaluate if proper communication (i.e., vacuum at -0.004 inches of water column [" w.c.][1]) is present in the SSDSs to mitigate VI.

2.5 Feasibility of Installation

At the request of USEPA, GHD made a Site visit on July 15, 2015 to assess the installation feasibility of proposed SSDS modification locations. GHD reviewed the current site conditions and proposed locations within each building and amended the proposed location(s), if required. The following section describes the most recent analytical results, system evaluation and proposed system modifications for each building.

2.6 USEPA Recommended Attenuation Factors

ODH screening levels, issued in 2012, were calculated based on an AF of 10, reflective of the 2002 OSWER Subsurface Vapor Intrusion Guidance. The 2015 OSWER Final Vapor Intrusion Guidance utilizes attenuation

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[1] As per the VI Mitigation Work Plan (CRA, May 2013), based on USEPA 2008 Guidance document titled "Indoor Air Vapor Intrusion Mitigation Approaches", and USEPA 1993 Guidance "Radon Reduction Techniques for Existing Detached Houses: Technical Guidance for Active Soil Depressurization Systems".

factors of 33 for residential buildings. During the meeting with GHD on September 10, 2015, USEPA discussed the use of SS screening levels calculated based on an AF of 50 for the industrial buildings with SSDSs at the Site. On November 5, 2015, USEPA amended the AF to 33 for Site non-residential buildings with SSDSs, to match the attenuation factor listed in the 2015 OSWER Final Vapor Intrusion Guidance. If a Building had a SS COC concentration that was greater than the Ohio Department of Health (ODH) screening level, Respondents perform a secondary check of the SS concentration against a modified screening level based on an AF of 33 (screening levels calculated based on an AF of 33 are referred to as ODH SS screening levels[AF=33]). To calculate the ODH SS screening levels (AF=33), one multiplies the ODH SS screening level (AF=10) by 3.3. The 2012 ODH screening levels for IA and methane continue to apply for evaluation of the analytical results. If a building had a SS COC concentration greater than the ODH screening level (AF=10) but less than the ODH SS screening level (AF=33) with no VI-related IA exceedances, the SSDS for the building is performing as required by the ASAOC, and no further SSDS upgrades are required. The table below shows ODH SS screening levels (AF=33).

Table 2.6 ODH SS Screening Levels (AF=33)

Chemical of Concern	ODH SS Screening Levels (AF 33) (ppb)
1,1-Dichloroethane	528
Benzene	66
Chloroform	2,640
cis-1,2-Dichloroethylene	1,221
Ethylbenzene	8,250
Tetrachloroethylene (PCE)	825
Trichloroethylene (TCE)	66
m,p-Xylenes	6,600
o-Xylenes	6,600
Vinyl chloride	66

2.7 System Vacuum Readings at Blowers

For buildings where SS concentrations remain above ODH SS screening levels (AF=10 and AF=33), USEPA recommended decreasing the vacuum at all blowers and suction points. USEPA recommended that a maximum vacuum of 2 inches of water column (in. WC) should be applied to the system. Accordingly, GHD will install valves, where possible, to reduce the vacuum applied to the suction points in buildings where SS concentrations remain above screening levels. GHD notes that it may not be feasible to install valves at all suction points due to the existing configuration of the extraction points with stemline attachments and installation controls, i.e., length of valve, length of an elbow, and/or length of a tee.

3. System Evaluation and Proposed Action

3.1 B&G Trucking – Building 8

3.1.1 Analytical Results

GHD collected samples at B&G Trucking Building 8 on July 15, 2015. GHD collected three IA samples at IA-8-A, IA-8-D, and IA-8-F, and three SS soil vapor samples at SS-8-A, SS-8-D, and SS-8-F. Sample collection at location SS-8-B was inadvertently omitted, and a sample at SS-8-F was collected instead. During this sampling round, one extraction point (EP-3) was not operating at the time of sampling, and further assessment of Building 8 is required pending additional sample collection and analysis. Building 8 sample locations are shown on Figure 1, and analytical results are presented in Table 1. July 2015 sample exceedances are summarized in the following table. GHD notes that all IA exceedances were related to background concentrations due to business operations or stored chemicals in the buildings, that the compounds were not present in co-located SS samples at concentrations greater than the applicable screening level; therefore, the IA concentrations were not indicative of complete VI pathways.

Table 3.1.1 Summary of July 2015 Building 8 VI SS Sample Exceedances

Location	Compound	Concentration (ppb)	ODH Screening Level (AF=10) (ppb)	ODHSS Screening Level (AF=33) (ppb)
IA-8-F	Benzene	3.4	2	Not Applicable
SS-8-A	TCE	480	20	66
SS-8-D	TCE	34/32	20	66

3.1.2 Discussion

Benzene was detected in IA at location IA-8-F at a concentration greater than the Ohio Department of Health (ODH) screening level in July 2015; however, benzene concentrations in all SS samples were either not detected or were detected at concentrations less than ODH screening levels. The lack of benzene exceedances in all SS soil vapor samples collected to date and the elevated benzene AF at location IA-8-F indicates that the exceedance was not due to VI and is the result of IA background sources or human activity within and around the building. In 2012, GHD completed an IA building assessment and observed a number of factors that can influence IA quality and contribute to concentrations of benzene above the ODH screening levels within the building. These factors included, but are not limited to, (i) personnel smoking tobacco products in the building, (ii) storage and operation of petroleum-fueled vehicles inside the building, and (iii) use of products and solvents including paints, lacquers, hardeners, thinners, degreasers, and oils. This evidence suggests that IA benzene concentrations are the result of ongoing daily human activities within and around Building 8 as well as IA background sources, and are not the result of a complete VI pathway.

The SS concentrations of TCE in Building 8 have decreased since the SSDS was installed in November 2013, as can be seen from the concentrations presented on Figure 1.

3.1.3 System Evaluation

The fan at extraction point EP-3 in Building 8 was not operational during the July 2015 sampling and a complete system evaluation cannot be completed at this time.

3.1.4 Proposed SSDS Upgrades

The SSDS in Building 8 has not attained the ODH SS screening level (AF=33) for TCE at SS-8-A. GHD proposes to install another stemline suction point (EP-3 stemline 2) on the EP-3 header, and another extraction point and stemline suction point, EP-5 and EP-5 stemline, respectively, as presented in Figure 1. These suction points will further encircle the vicinity around SS-8-A, which had the TCE exceedance.

GHD will install valves at all extraction points, where possible, to control and reduce the amount of vacuum that is applied to the SS. GHD notes that it may not be feasible to install valves at all suction points due to the existing configuration of the extraction points with stemline attachments and installation controls, i.e., length of valve, length of an elbow, and/or length of a tee.

3.2 B&G Trucking – Building 9

3.2.1 Analytical Results

GHD collected samples at B&G Trucking Building 9 on July 15, 2015. GHD collected two IA samples at IA-9-A and IA-9-B, and one SS soil vapor sample at SS-9-A. Building 9 sample locations are shown on Figure 2, and analytical results are presented in Table 2. July 2015 sample exceedances are summarized in the following table.

Table 3.2.1 Summary of July 2015 Building 9 VI Sample Exceedances

Location	Compound	Concentration (ppb)	ODH Screening Level (ppb)	USEPA SS Screening Level (AF =33 (ppb)
SS-9-A	TCE	1,700	20	66

3.2.2 Discussion

SS-9-A had a concentration of TCE of 1,700 ppb, which was greater than the ODH SS screening levels (AF=10 and AF=33). The SS concentrations of TCE at SS-9-A exhibit seasonal fluctuations, with concentrations increasing in the warmer months. The SS concentrations of TCE in Building 9 have decreased since the SSDS was installed in September 2013, as can be seen from the concentrations presented on Figure 2.

There were no IA exceedances measured in Building 9 in July 2015. Sample collection at location SS-9-B was inadvertently omitted. Previous IA samples contained concentrations of benzene, ethylbenzene, and xylenes that were greater than ODH screening levels. The concentrations of these compounds in SS samples were either not detected or detected at concentrations less than ODH screening levels. In 2012, GHD completed an IA building assessment and observed a number of factors that can influence IA quality and contribute to concentrations of benzene, ethylbenzene and xylenes above the ODH screening levels within the building. These factors included, but are not limited to, (i) personnel smoking tobacco products in the building, (ii) storage and operation of petroleum-fueled vehicles inside the building, and (iii) use of

products and solvents including paints, lacquers, hardeners, thinners, degreasers, and oils. The data show that benzene, ethylbenzene, and xylenes detections in Building 9 IA are not related to VI, but rather are the result of on-going daily human activities within and around Building 9, as well as IA background sources, and are not the result of a complete VI pathway.

System Evaluation

The average historic vacuum reading of -0.0097" w.c. at SS-9-A satisfies the required -0.004" w.c. threshold. Historic sub-slab vacuum readings for Building 9 are presented in Table 3.

The vacuum readings in Building 9 are satisfactory, and TCE is not present in indoor air.

3.2.3 Proposed SSDS Upgrades

Concentrations of TCE at SS-9-A in Building 9 remain above the ODH SS screening level (AF=33). GHD proposes to install another stemline suction point (EP-2 stemline), and another extraction point and stemline suction point, EP-3 and EP-3 stemline, respectively, as presented in Figure 2. These suction points will further encircle the vicinity around SS-9-A, which has the TCE exceedance.

GHD will install valves at all extraction points, where possible, to control and reduce the amount of vacuum that is applied to the SS. GHD notes that it may not be feasible to install valves at all suction points due to the existing configuration of the extraction points with stemline attachments and installation controls, i.e., length of valve, length of an elbow, and/or length of a tee.

3.3 Overstreet Painting and S&J Precision – Building 12

3.3.1 Analytical Results

GHD collected samples at Overstreet Painting (OP) and S&J Precision (S&J) on July 13, 2015. GHD collected four IA samples at IA-12-OP-A, IA-12-OP-B, IA-12-SJ-B, and IA-12-SJ-D, and four SS samples at SS-12-OP-A, SS-12-OP-B, SS-12-SJ-B, and SS-12-SJ-D. Building 12 sample locations are shown on Figure 3, and analytical results are presented in Tables 4 and 5. July 2015 sample exceedances are summarized in the following table.

Table 3.3.1 Summary of July 2015 Building 12 VI Sample Exceedances

Location	Compound	Concentration (ppb)	ODH Screening Levels (AF=10) (ppb)	ODH SS Screening Levels (AF=33) (ppb)
IA-12-OP-A	Benzene	4.4	2	Not Applicable
SS-12-OP-A	TCE	460	20	100
IA-12-OP-B	Benzene	4.2	2	Not Applicable
SS-12-OP-B	TCE	800 / 1,300	20	100
SS-12-SJ-B	TCE	7,700	20	100
SS-12-SJ-D	TCE	110 / 110	20	100

3.3.2 Discussion

The TCE SS concentrations in Building 12 were greater than the ODH SS Screening Levels (AF=10 and AF=33). The July 2015 TCE concentration at SS-12-SJ-B is the maximum concentration measured to date at that location. GHD notes that Building 12 is located within an area of TCE groundwater impacts (see Figure 3).

Benzene was detected in IA within OP; however, benzene was not and has never been detected at any corresponding SS samples (SS-12-OP-A and SS-12-OP-B), with one exception; benzene was detected once in SS-12-OP-B at a concentration of 16 ppb in April 2014. The corresponding IA sample concentration at IA-12-OP-B was 25 ppb; and the resulting benzene AF was 1.56. USEPA suggested the similarity of concentrations could indicate that VI was occurring. GHD previously collected radon samples in March 2012 to determine AFs; the AF at SS-12-OP-B in March 2012 was 0.0039. GHD collected radon samples at SS-12-OP-B and IA-12-OP-B in July 2015 in order to calculate a current AF. The July radon sample results were 0.04 and 166 picocuries per liter (pCi/L) at IA-12-OP-B and SS-12-OP-B, respectively, resulting in an AF of 0.00024. The AFs calculated based on March 2012 and July 2015 radon results indicate the benzene concentrations in April 2014 are not related to VI. In 2012, GHD completed an IA building assessment and observed a number of factors that can influence IA quality and contribute to concentrations of benzene above the ODH screening levels within the building. These factors included, but are not limited to, storage of petroleum-fueled vehicles and paints inside the building. The data show that benzene in Building 12 IA are not related to VI, but rather are the result of IA background sources, and are not the result of a complete VI pathway.

According to the June 2011 study by the USEPA, North American residences have benzene present in background IA at concentrations ranging from 1.61 ppb to 4.64 ppb in the 90th percentile of residences sampled. Being that OP is an industrial building, it is comparable or even conservative to draw parallels to the 90th percentile range. The detected IA concentrations of benzene were 4.4 ppb and 4.2 ppb at IA-12-OP-A and IA-12-OP-B, respectively, which is within the 90th percentile background range. This indicates that detections are from building business operations and not from VI.

System Evaluation

The average historic vacuum readings of -0.0369, -0.0714, -0.0461, and -0.0604" w.c., at SS-12-OP-A, SS-12-OP-B, SS-12-SJ-B, and SS-12-SJ-D, respectively, satisfy the required -0.004" w.c. threshold, which means the SSDS is operating properly to mitigate VI in Building 12. Historic sub-slab vacuum readings for Building 12 are presented in Table 6.

3.3.3 Proposed SSDS Upgrades

TCE at SS-12-OP-A, SS-12-OP-B, SS-12-SJ-B, and SS-12-SJ-D in Building 12 remain above the ODH SS screening level (AF=33). GHD proposes to install three additional stemline suction points: EP-1 stemline 2, EP-3 stemlines 3 and 4 as presented on Figure 3. These suction points will further encircle the vicinity around SS-12-OP-B and SS-12-SJ-B, which had the greatest concentrations of TCE.

GHD notes that adding more suction point locations around an area with elevated SS concentrations will not remediate the source of impacted groundwater below the SS. The fluctuating SS soil vapor concentrations is related to the rate at which the COC mass diffuses from the impacted groundwater source to the sub-slab, and it is not related to the effectiveness of the SSDS at mitigating VI.

GHD will install valves at all extraction points, where possible, to control and reduce the amount of vacuum that is applied to the SS. GHD notes that it may not be feasible to install valves at all suction points due to the existing configuration of the extraction points with stemline attachments and installation controls, i.e., length of valve, length of an elbow and/or length of a tee.

3.4 Bullseye Amusements (Nex-Gen Vending & Entertainment) – Building 14

3.4.1 Analytical Results

GHD collected samples at Bullseye Amusement (Bullseye) on July 16, 2015. GHD collected one IA sample at IA-14-C, and one SS soil vapor sample at SS-14-A. Building 14 sample locations are shown on Figure 4, and analytical results are presented in Table 7. The Building 14 July sample results did not exceed ODH screening levels.

3.4.2 Discussion

There were no exceedances at any Building 14 sample locations during the July 2015 sampling event, all concentrations were less than the ODH screening levels. The SSDS is operating effectively to mitigate VI within the building.

The SS concentrations of COCs in Building 14 have decreased since the SSDS was installed in December 2013, as can be seen from the concentrations presented on Figure 4.

System Evaluation

The average historic vacuum readings for SS-14-A, SS-14-B, and SS-14-C satisfy the required -0.004" w.c. threshold. At SS-14-E, the average, historic vacuum reading is -0.0009' w.c., which did not meet the required threshold vacuum of -0.004" w.c. and adequate vacuum was not achieved. Historic sub-slab vacuum readings for Building 14 are presented in Table 8.

The effectiveness of the SSDS in Building 14 is exhibited by the absence of IA sample exceedances related to vapor intrusion.

3.4.3 Proposed SSDS Upgrades

Though no July 16, 2015 sample concentrations were greater than ODH SS screening levels (AF=10 or AF=33), GHD proposes an additional extraction point location EP-3 (Figure 4) in order to improve the sub-slab vacuum. GHD amended the proposed location of EP-3 from earlier figures by moving it to the east side of the building from the west side. The entire west outside of Building 14 is covered with a tree/shrub line that would make installation along the west wall problematic. The proposed EP-3 location should also influence the southern section of the building where adequate vacuum has not been achieved.

Valves do not need to be installed at extraction points to reduce the vacuum because constituent concentrations are below screening levels.

3.5 SIM Trainer – Building 15

3.5.1 Analytical Results

GHD collected samples at SIM Trainer on July 14, 2015. GHD collected two IA samples at IA-15-A and IA-15-C, and two SS soil vapor samples at SS-15-A and SS-15-C. Sample locations are shown on Figure 5, and analytical results are presented in Table 9. The July 2015 sample ODH exceedances are summarized in the following table.

Table 3.5.1 Summary of July 2015 Building 15 VI Sample Results

Location	Compound	Concentration (ppb)	ODH Screening Levels (AF=10) (ppb)	ODH SS Screening Levels (AF=33) (ppb)
SS-15-C	Cis-1,2-Dichloroethene	780	370	1,221
	TCE	87	20	66
	Vinyl chloride	26	20	66

3.5.2 Discussion

SS-15-C had concentrations that were greater than the ODH screening levels (AF=10 and AF=33). Constituent concentrations were below IA screening levels in Building 15. The SS concentrations at SS-15-C exhibit seasonal fluctuations, with concentrations increasing in the warmer months.

During the meeting held on June 8, 2015, USEPA noted that the similarities in TCE concentrations at SS-15-A and IA-15-A in February 2014, April 2014, and February 2015 may indicate the presence of a VI pathway; the concentrations are summarized in the following table. USEPA VI Guidance (USEPA, 2015) indicates that the use of an attenuation factor of 0.03 (i.e., dilution by 33 times) between residential sub-slab and indoor air is typically a conservative means of estimating indoor air concentrations based on sub-slab results. GHD notes that the similarity in Building 15 IA and SS TCE concentrations is not consistent with anticipated vapor intrusion effects and attenuation.

Table 3.5.2 TCE Concentrations at SS-15-A and 1A-15-A and Associated TCE Attenuation Factors

	February 2014	April 2014	February 2015	July 2015
IA-15-A TCE (ppb)	2.0	3.0	1.4	1.7
SS-15-A TCE (ppb)	2.0	3.1	1.4	2.0 / 2.0
TCE concentration attenuation factor	1	0.968	1	0.85
Average TCE concentration attenuation factor	0.955			
IA-15-A Radon (pCi/L)				0.13
SS-15-A Radon (pCi/L)				3.5

	February 2014	April 2014	February 2015	July 2015
Radon Attenuation Factor				0.037

GHD collected radon samples at IA-15-A and SS-15-A in July 2015 in order to determine the AF at that location. The July 2015 radon results were 0.13 and 3.5 pCi/L at IA-15-A and SS-15-A, respectively, which results in an AF of 0.037. The AF calculated based on July 2015 radon results indicate that the similarities of TCE concentrations at SS-15-A and IA-15-A are not related to VI.

System Evaluation

The current system is operating as desired with all SS sampling locations having a historic, average, vacuum readings satisfying the -0.004" w.c. requirement across the building slab, with the exception of SS-15-H, which appears to be an anomaly. Historic SS vacuum readings for Building 15 are presented in Table 10.

The effectiveness of the SSDS in Building 15 is exhibited by satisfactory vacuum readings, and constituent concentrations that are below the IA and SS screening levels.

3.5.3 Proposed SSDS Upgrades

TCE at SS-15-C in Building 15 was greater than the ODH SS screening level (AF=33) in July 2015. GHD proposes to install one additional stemline suction point, EP-2 stemline 1 as presented on Figure 5. This suction point will further encircle the vicinity around SS-15-C, which had the greatest concentrations of TCE.

GHD notes that adding more suction point locations around an area with elevated SS concentrations will not remediate the source of impacted groundwater below the SS. The fluctuating SS soil vapor concentrations is related to the rate at which the COC mass diffuses from the impacted groundwater source to the sub-slab, and it is not related to the effectiveness of the SSDS at mitigating VI.

GHD will install valves at all extraction points, where possible, to control and reduce the amount of vacuum that is applied to the SS. GHD notes that it may not be feasible to install valves at all suction points due to the existing configuration of the extraction points with stemline attachments and installation controls, i.e., length of valve, length of an elbow and/or length of a tee.

3.6 Globe Equipment, Building 24

3.6.1 Analytical Results

GHD collected samples in Globe Equipment on July 16, 2015. GHD collected one IA sample at IA-24-B, and one SS soil vapor sample at SS-24-B. Building 24 sample locations are shown on Figure 6, and analytical results are presented in Table 11.

3.6.2 Discussion

There were no IA or SS soil vapor concentrations greater than the ODH SS screening levels (AF=10 and AF=33). The SSDS in Building 24 is performing effectively.

System Evaluation

The average, historical vacuum readings of -0.0002: w.c., were less than the -0.004" w.c. threshold. Historic SS vacuum readings for Building 24 are presented in Table 12.

3.6.3 Proposed SSDS Upgrades

Based on the above assessment and the 2015 Site walkthrough, GHD proposes to install EP-8 stemline 2 (Figure 6) to increase the SSDS radius of influence (ROI) at SS-24-B where historic exceedances of TCE have been recorded.

4. Conclusions and Recommendations

Based on the July 2015 analytical results, SS samples from Buildings 8, 9, 12, and 15 continue to contain concentrations of VOCs greater than the ODH SS screening levels (AF=10 and AF=33). No IA exceedances were observed in July 2015 that are attributable to VI. All IA exceedances are likely the result of on-going daily human activities within and around the building which includes IA background sources.

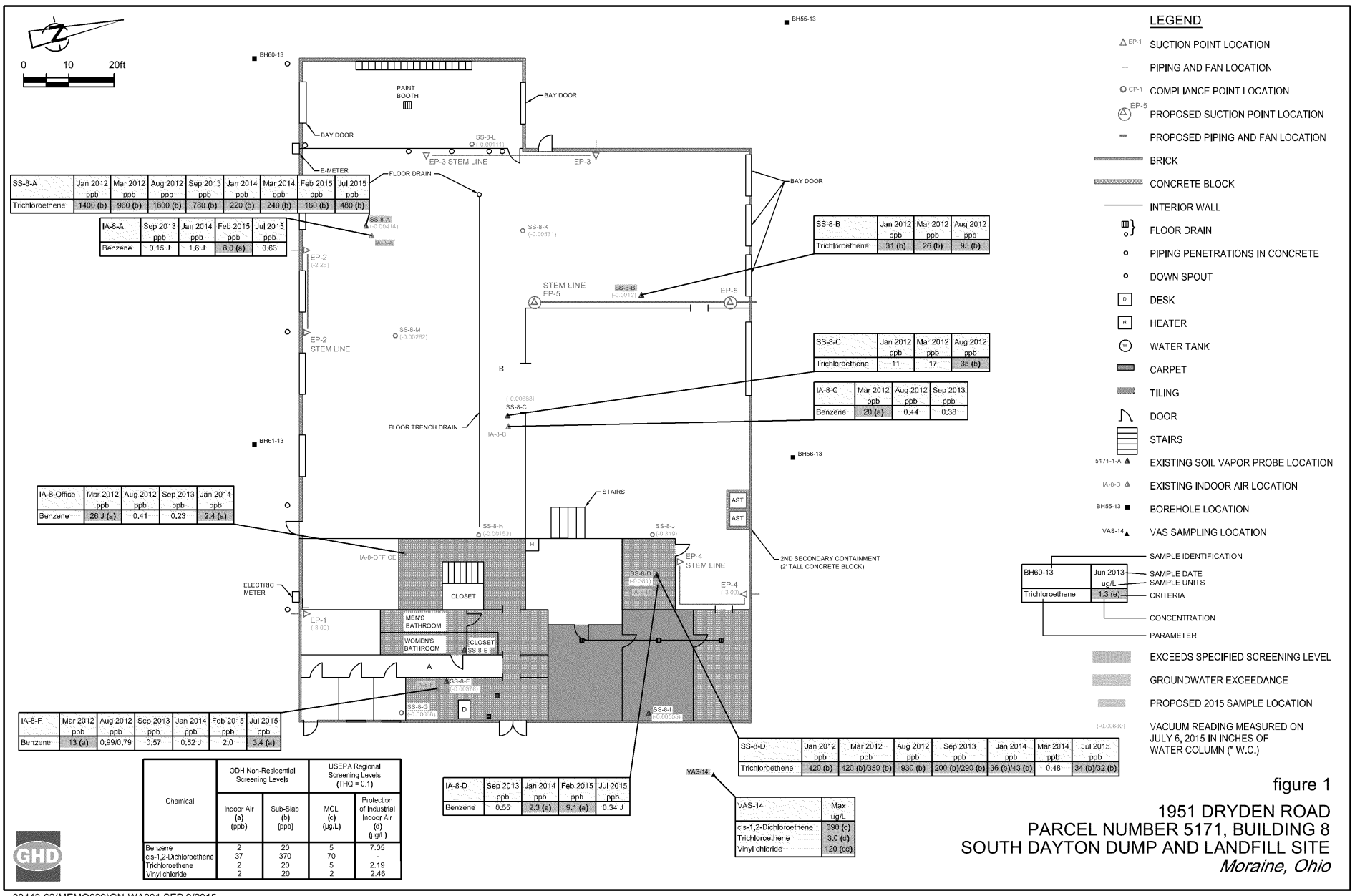
Respondents recommended SSDS modifications in Buildings 8, 9, 12, 14, 15 and 24 in an effort to reduce vacuum at extraction points at the request of the USEPA, and proposed installation of additional extraction points and stemlines to increase the ROI and further reduce any current or future risk of VI. Respondents propose to collect confirmatory samples 60 days following installation of the proposed modifications and subsequently propose to move all buildings to annual proficiency sampling in accordance with the VI Mitigation Work Plan (CRA, May 2013). In addition, given the recent blower fan failure, Respondents propose to inspect the SSDS on a quarterly basis to confirm that the systems continue to operate as designed.

5. References

Conestoga-Rovers & Associates (CRA). 2013. *VI Mitigation Work Plan*. May.

United States Environmental Protection Agency (USEPA). 2011. *Background Indoor Air Concentrations of Volatile Organic Compounds in North American Residences (1990 – 2005): A Compilation of Statistics for Assessing Vapor Intrusion.* Office of Solid Waste and Emergency Response, Washington, D.C. EPA-530-R-10-001. June.

United States Environmental Protection Agency. 2015. *OSWER Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air.* Office of Solid Waste and Emergency Response, OSWER Publication 9200.2-154. June.



SS-8-A	Jan 2012	Mar 2012	Aug 2012	Sep 2013	Jan 2014	Mar 2014	Feb 2015	Jul 2015
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Trichloroethene	1400 (b)	960 (b)	1800 (b)	780 (b)	220 (b)	240 (b)	160 (b)	480 (b)

IA-8-A	Sep 2013	Jan 2014	Feb 2015	Jul 2015
	ppb	ppb	ppb	ppb
Benzene	0.15 J	1.6 J	8.0 (a)	0.63

SS-8-B	Jan 2012	Mar 2012	Aug 2012
	ppb	ppb	ppb
Trichloroethene	31 (b)	26 (b)	95 (b)

SS-8-C	Jan 2012	Mar 2012	Aug 2012
	ppb	ppb	ppb
Trichloroethene	11	17	35 (b)

IA-8-C	Mar 2012	Aug 2012	Sep 2013
	ppb	ppb	ppb
Benzene	20 (a)	0.44	0.38

IA-8-Office	Mar 2012	Aug 2012	Sep 2013	Jan 2014
	ppb	ppb	ppb	ppb
Benzene	26 J (a)	0.41	0.23	2.4 (a)

IA-8-F	Mar 2012	Aug 2012	Sep 2013	Jan 2014	Feb 2015	Jul 2015
	ppb	ppb	ppb	ppb	ppb	ppb
Benzene	13 (a)	0.99/0.79	0.57	0.52 J	2.0	3.4 (a)

SS-8-D	Jan 2012	Mar 2012	Aug 2012	Sep 2013	Jan 2014	Mar 2014	Jul 2015
	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Trichloroethene	420 (b)	420 (b)/350 (b)	930 (b)	200 (b)/290 (b)	36 (b)/43 (b)	0.48	34 (b)/32 (b)

IA-8-D	Sep 2013	Jan 2014	Feb 2015	Jul 2015
	ppb	ppb	ppb	ppb
Benzene	0.55	2.3 (a)	9.1 (a)	0.34 J

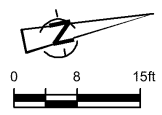
VAS-14	Max
	ug/L
cis-1,2-Dichloroethene	390 (c)
Trichloroethene	3.0 (c)
Vinyl chloride	120 (cc)

Chemical	ODH Non-Residential Screening Levels		USEPA Regional Screening Levels (THQ = 0.1)	
	Indoor Air (a) (ppb)	Sub-Slab (b) (ppb)	MCL (c) (µg/L)	Protection of Industrial Indoor Air (d) (µg/L)
Benzene	2	20	5	7.05
cis-1,2-Dichloroethene	37	370	70	-
Trichloroethene	2	20	5	2.19
Vinyl chloride	2	20	2	2.46

figure 1

1951 DRYDEN ROAD
PARCEL NUMBER 5171, BUILDING 8
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-62(MEMO029)GN-WA001 SEP 9/2015



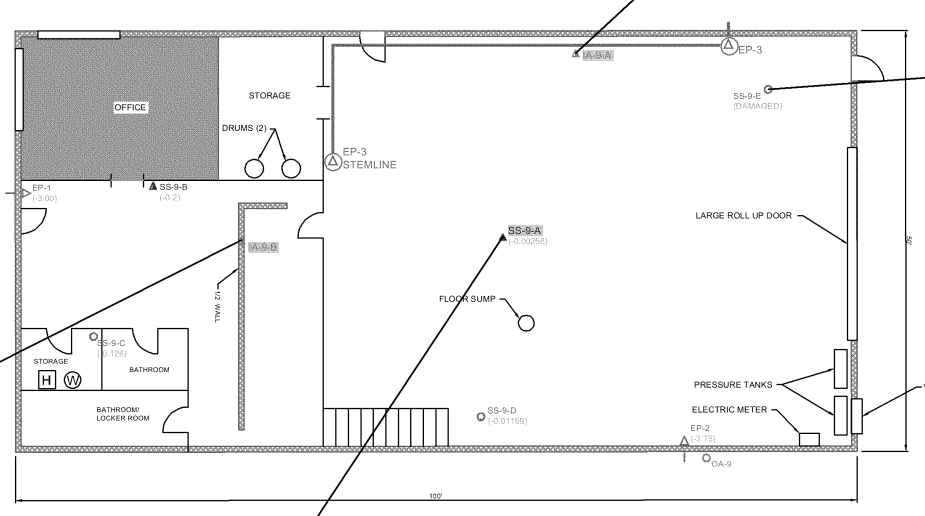
GP16-09	Sep 2009 ug/m3	2009 %
1,1-Dichloroethane	66	-
Benzene	18	-
Chloroform (Trichloromethane)	150	-
cis-1,2-Dichloroethene	4.4 J	-
Ethylbenzene	6.6 J	-
Methane, field	-	4.3/3.7/3.7
Vinyl chloride	490	-

IA-9-A	Mar 2012 ppb	Oct 2013 ppb	Mar 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
Benzene [1]	17 U	5.3 U	17 J (a)	4 (a)	0.28 U/0.26 J
Ethylbenzene [1]	270 (a)	42	100	44	0.68 J/1.3 J
m&p-Xylenes [1]	1200 (a)	180	470 (a)	170	2.9 J/5.9 J
o-Xylene [1]	390 (a)	66	130	49	0.95 J/1.8 J
Trichloroethene	13 J (a)	3.4 U	5.0 U	5.4 U	0.18 U/0.072 U

SS-9-E	May 2014 ppb
Trichloroethene	150 (b)

IA-9-B	Mar 2012 ppb	Oct 2013 ppb	Mar 2014 ppb	May 2014 ppb	Feb 2015 ppb
Benzene [1]	48 U	14 U	8.1 (a)	0.15 J	4.2 (a)
m&p-Xylenes [1]	420 (a)	160	310 (a)	1.8	150

SS-9-A	Jan 2012 ppb	Mar 2012 ppb	Feb 2015 ppb	Jul 2015 ppb
Trichloroethene	1600 (b)/1800 (b)	3100 (b)	644 (b)	1700 (b)



Chemical	ODH Non-Resicential Screening Levels		USEPA Regional Screening Levels (THQ = 0.1)	
	Indoor Air (a) (ppb)	Sub-Slab (b) (ppb)	MCL (c) (µg/L)	Protection of Industrial Indoor Air (d) (µg/L)
1,1-Dichloroethane	16	160	-	33.51
Benzene	2	20	5	7.05
Chloroform (Trichloromethane)	80	800	80	3.53
cis-1,2-Dichloroethene	37	370	70	-
Ethylbenzene	250	2,500	700	15.21
m&p-Xylenes	200	2,000	-	-
Methane, field	0.05	0.5	-	-
o-Xylenes	200	2,000	-	208
Trichloroethene	2	20	5	2.19
Trichloroethene	2	20	2	2.46

LEGEND

- EP-1 SUCTION POINT LOCATION
- PIPING AND FAN LOCATION
- SS-9-E COMPLIANCE POINT LOCATION
- EP-3 PROPOSED SUCTION POINT LOCATION
- PROPOSED PIPING AND FAN LOCATION
- CONCRETE BLOCK
- INTERIOR WALL
- FLOOR DRAIN
- HEATER
- WATER TANK
- TILING
- DOOR
- STAIRS
- 5171-1-A EXISTING SOIL VAPOR PROBE LOCATION
- IA-8-D EXISTING INDOOR AIR LOCATION
- OA-9 EXISTING OUTDOOR AIR LOCATION
- VAS-7 VAS SAMPLING LOCATION
- GP16-09 DEEP GAS PROBE

SS-9-E	May 2014 ppb
Trichloroethene	150 (b)

- SAMPLE IDENTIFICATION
- SAMPLE DATE
- SAMPLE UNITS
- CRITERIA
- CONCENTRATION
- PARAMETER

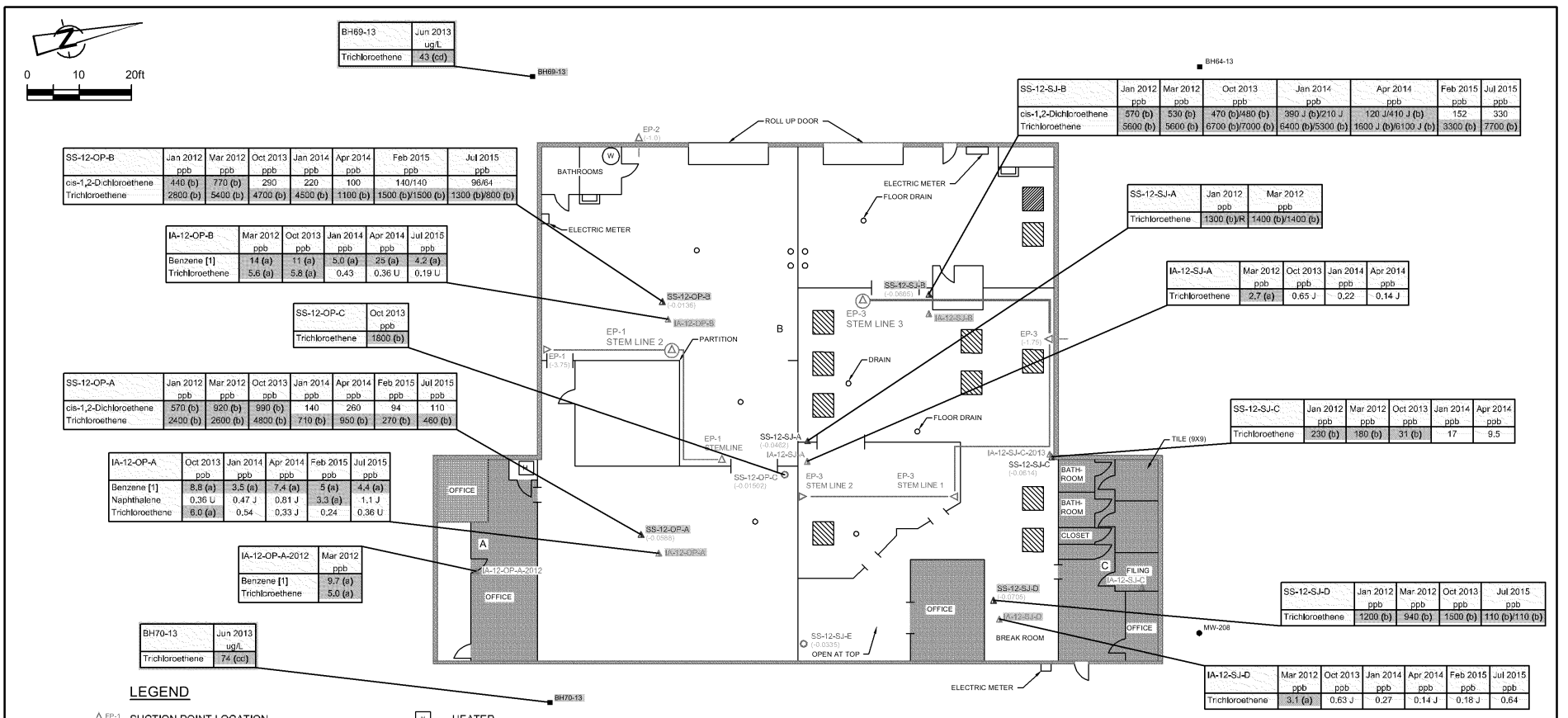
- EXCEEDS SPECIFIED SCREENING LEVEL
- PROPOSED 2015 SAMPLE LOCATION
- (-0.0168) VACUUM READING MEASURED ON JULY 6, 2015 IN INCHES OF WATER COLUMN (" W.C.)
- [1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION. BASED ON MULTIPLE LINES OF EVIDENCE.

figure 2

1951 DRYDEN ROAD
PARCEL NUMBER 5171, BUILDING 9
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GHD

38443-62(MEMO029)GN-WA002 SEP 9/2015



BH69-13	Jun 2013 ug/L
Trichloroethene	43 (cd)

SS-12-SJ-B	Jan 2012 ppb	Mar 2012 ppb	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
cis-1,2-Dichloroethene	570 (b)	530 (b)	470 (b)/480 (b)	390 J (b)/210 J	120 J/410 J (b)	152	330
Trichloroethene	5600 (b)	5600 (b)	6700 (b)/7000 (b)	6400 (b)/5300 (b)	1600 J (b)/6100 J (b)	3300 (b)	7700 (b)

SS-12-OP-B	Jan 2012 ppb	Mar 2012 ppb	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
cis-1,2-Dichloroethene	440 (b)	770 (b)	290	220	100	140/140	96/64
Trichloroethene	2800 (b)	5400 (b)	4700 (b)	4500 (b)	1100 (b)	1500 (b)/1500 (b)	1300 (b)/800 (b)

SS-12-SJ-A	Jan 2012 ppb	Mar 2012 ppb
Trichloroethene	1300 (b)/R	1400 (b)/1400 (b)

IA-12-OP-B	Mar 2012 ppb	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb	Jul 2015 ppb
Benzene [1]	14 (a)	11 (a)	5.0 (a)	25 (a)	4.2 (a)
Trichloroethene	5.6 (a)	5.8 (a)	0.43	0.36 U	0.19 U

IA-12-SJ-A	Mar 2012 ppb	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb
Trichloroethene	2.7 (a)	0.65 J	0.22	0.14 J

SS-12-OP-C	Oct 2013 ppb
Trichloroethene	1800 (b)

SS-12-OP-A	Jan 2012 ppb	Mar 2012 ppb	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
cis-1,2-Dichloroethene	570 (b)	920 (b)	990 (b)	140	260	94	110
Trichloroethene	2400 (b)	2600 (b)	4800 (b)	710 (b)	950 (b)	270 (b)	460 (b)

SS-12-SJ-C	Jan 2012 ppb	Mar 2012 ppb	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb
Trichloroethene	230 (b)	180 (b)	31 (b)	17	9.5

IA-12-OP-A	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
Benzene [1]	8.8 (a)	3.5 (a)	7.4 (a)	5 (a)	4.4 (a)
Naphthalene	0.36 U	0.47 J	0.81 J	3.3 (a)	1.1 J
Trichloroethene	6.0 (a)	0.54	0.33 J	0.24	0.36 U

IA-12-OP-A-2012	Mar 2012 ppb
Benzene [1]	9.7 (a)
Trichloroethene	5.0 (a)

SS-12-SJ-D	Jan 2012 ppb	Mar 2012 ppb	Oct 2013 ppb	Jul 2015 ppb
Trichloroethene	1200 (b)	940 (b)	1500 (b)	110 (b)/110 (b)

IA-12-SJ-D	Mar 2012 ppb	Oct 2013 ppb	Jan 2014 ppb	Apr 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
Trichloroethene	3.1 (a)	0.63 J	0.27	0.14 J	0.18 J	0.64

BH70-13	Jun 2013 ug/L
Trichloroethene	74 (cd)

LEGEND

- EP-1 SUCTION POINT LOCATION
- PIPING AND FAN LOCATION
- CP-1 COMPLIANCE POINT LOCATION
- EP-4 PROPOSED SUCTION POINT LOCATION
- PROPOSED PIPING AND FAN LOCATION
- BRICK
- CONCRETE BLOCK
- INTERIOR WALL
- FLOOR DRAIN
- PIPING PENETRATIONS IN CONCRETE
- DOWN SPOUT
- H HEATER
- W WATER TANK
- SINK
- TILING
- DOOR
- HEAVY EQUIPMENT
- 5172-OP1-A EXISTING SOIL VAPOR PROBE LOCATION
- MW-208 MONITORING WELL LOCATION
- BH69-13 BOREHOLE LOCATION
- [1] INDOOR AIR EXCEEDANCES MAY NOT BE DUE TO VAPOR INTRUSION. BASED ON MULTIPLE LINES OF EVIDENCE.

IA-12-OP-B-2013	Oct 2013 ppb
Benzene	11 (a)
Trichloroethene	5.8 (a)

SAMPLE IDENTIFICATION
SAMPLE DATE
SAMPLE UNITS
CRITERIA
CONCENTRATION
PARAMETER

- EXCEEDS SPECIFIED SCREENING LEVEL
- GROUNDWATER EXCEEDANCE
- PROPOSED 2015 SAMPLE LOCATION
- (-0.00630) VACUUM READING MEASURED ON JULY 6, 2015 IN INCHES OF WATER COLUMN (" W.C.)

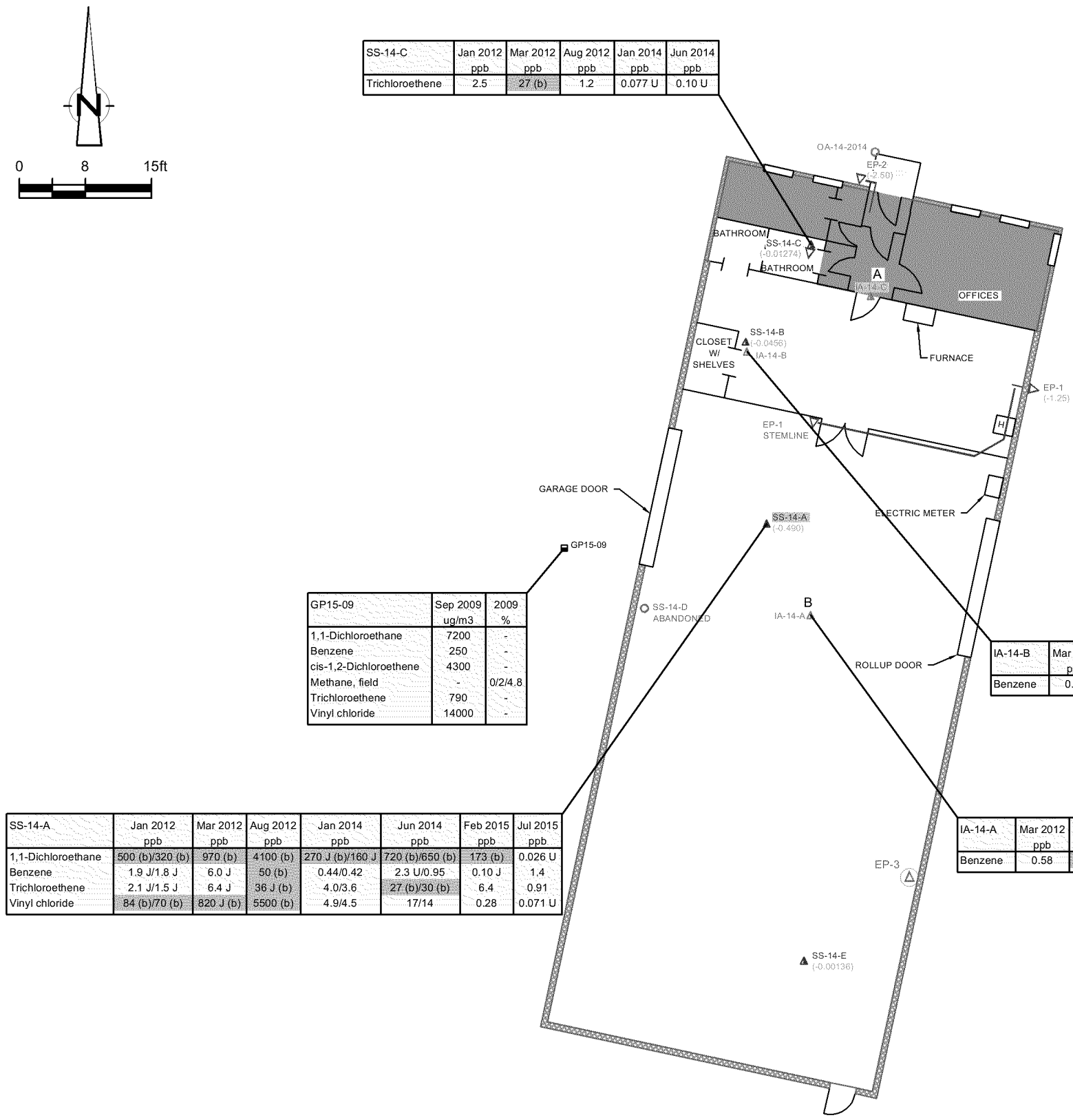
Chemical	ODH Non-Residential Screening Levels		USEPA Regional Screening Levels (THQ = 0.1)	
	Indoor Air (a) (ppb)	Sub-Slab (b) (ppb)	MCL (c) [illegible]	Protection of Industrial Indoor Air (d) [illegible]
Benzene	2	20	5	7.05
cis-1,2-Dichloroethene	37	370	70	-
Naphthalene	2.9	29	0.17	20.01
Trichloroethene	2	20	5	2.19

figure 3

2015/2019 DRYDEN ROAD
PARCEL NUMBER 5172, BUILDING 12
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GHD

38443-62(MEMO029)GN-WA003 SEP 9/2015



SS-14-C	Jan 2012 ppb	Mar 2012 ppb	Aug 2012 ppb	Jan 2014 ppb	Jun 2014 ppb
Trichloroethene	2.5	27 (b)	1.2	0.077 U	0.10 U

GP15-09	Sep 2009 ug/m3	2009 %
1,1-Dichloroethane	7200	-
Benzene	250	-
cis-1,2-Dichloroethene	4300	-
Methane, field	-	0/2/4.8
Trichloroethene	790	-
Vinyl chloride	14000	-

IA-14-B	Mar 2012 ppb	Aug 2012 ppb	Jan 2014 ppb	Jun 2014 ppb
Benzene	0.67	2.1 (a)	2.1 (a)	0.43

SS-14-A	Jan 2012 ppb	Mar 2012 ppb	Aug 2012 ppb	Jan 2014 ppb	Jun 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
1,1-Dichloroethane	500 (b)/320 (b)	970 (b)	4100 (b)	270 J (b)/160 J	720 (b)/650 (b)	173 (b)	0.026 U
Benzene	1.9 J/1.8 J	6.0 J	50 (b)	0.44/0.42	2.3 U/0.95	0.10 J	1.4
Trichloroethene	2.1 J/1.5 J	6.4 J	36 J (b)	4.0/3.6	27 (b)/30 (b)	6.4	0.91
Vinyl chloride	84 (b)/70 (b)	820 J (b)	5500 (b)	4.9/4.5	17/14	0.28	0.071 U

IA-14-A	Mar 2012 ppb	Aug 2012 ppb	Jan 2014 ppb	Jun 2014 ppb
Benzene	0.58	2.4 (a)	3.2 (a)	0.54

LEGEND

- EP-1 SUCTION POINT LOCATION
- PIPING AND FAN LOCATION
- SS-14-D COMPLIANCE POINT LOCATION
- EP-2 PROPOSED SUCTION POINT LOCATION
- BRICK
- CONCRETE BLOCK
- INTERIOR WALL
- H HEATER
- CARPET
- DOOR
- SS-14-B EXISTING SOIL VAPOR PROBE LOCATION
- IA-14-A EXISTING INDOOR AIR LOCATION
- GP15-09 DEEP GAS PROBE
- OA-14-2014 EXISTING OUTDOOR AIR LOCATION
- EXCEEDS SPECIFIED SCREENING LEVEL
- PROPOSED 2015 SAMPLE LOCATION
- (-0.0166) VACUUM READING MEASURED ON JULY 14, 2015 IN INCHES OF WATER COLUMN (" W.C.)

IA-14-C	Mar 2012 %	Aug 2012 %
Methane	-	0.19 U
Methane, field	0.0/0	0/0

SAMPLE IDENTIFICATION
SAMPLE DATE
SAMPLE UNITS
CRITERIA
CONCENTRATION
PARAMETER

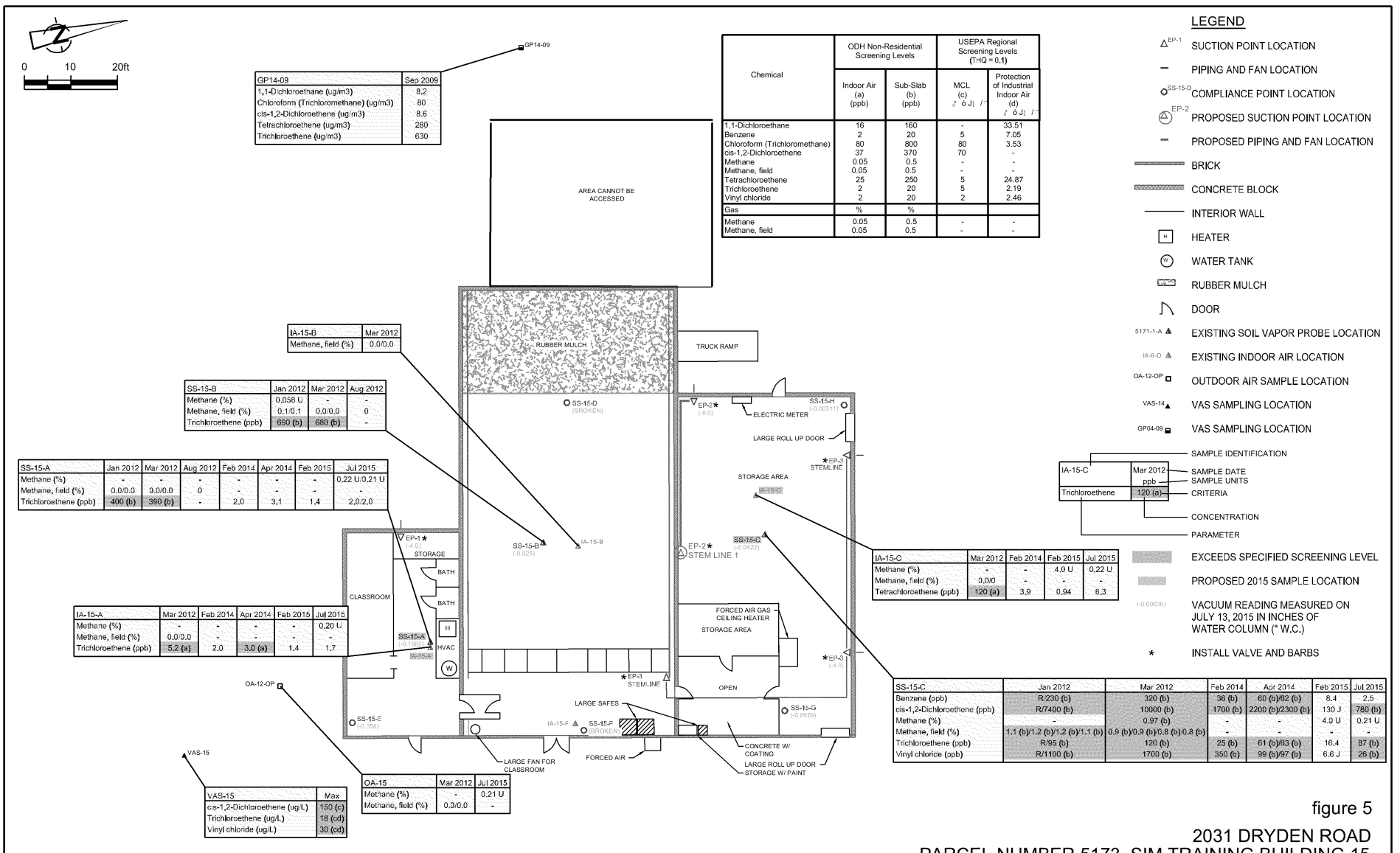
Chemical	ODH Non-Residential Screening Levels		USEPA Regional Screening Levels (THQ = 0.1)	
	Indoor Air (a) (ppb)	Sub-Slab (b) (ppb)	MCL (c) ¿ ó J↕ /⊤	Protection of Industrial Indoor Air (d) ¿ ó J↕ /⊤
1,1-Dichloroethane	16	160	-	33.51
Benzene	2	20	5	7.05
cis-1,2-Dichloroethene	37	370	70	-
Methane, field	0.05	0.5	-	-
Trichloroethene	2	20	5	2.19
Vinyl chloride	2	20	2	246

figure 4

2003 DRYDEN ROAD
PARCEL NUMBER 5172, BUILDING 14
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

GHD

38443-62(MEMO029)GN-WA004 OCT 15/2015



GP14-09	Sep 2009
1,1-Dichloroethane (ug/m3)	8.2
Chloroform (Trichloromethane) (ug/m3)	80
cis-1,2-Dichloroethene (ug/m3)	8.6
Tetrachloroethene (ug/m3)	280
Trichloroethene (ug/m3)	630

Chemical	ODH Non-Residential Screening Levels		USEPA Regional Screening Levels (THQ = 0.1)	
	Indoor Air (a) (ppb)	Sub-Slab (b) (ppb)	MCL (c) ¿ ô J¡ /¬	Protection of Industrial Indoor Air (d) ¿ ô J¡ /¬
1,1-Dichloroethane	16	160	-	33.51
Benzene	2	20	5	7.05
Chloroform (Trichloromethane)	80	800	80	3.53
cis-1,2-Dichloroethene	37	370	70	-
Methane	0.05	0.5	-	-
Methane, field	0.05	0.5	-	-
Tetrachloroethene	25	250	5	24.87
Trichloroethene	2	20	5	2.19
Vinyl chloride	2	20	2	2.46
Gas	%	%		
Methane	0.05	0.5	-	-
Methane, field	0.05	0.5	-	-

IA-15-B	Mar 2012
Methane, field (%)	0.0/0.0

SS-15-B	Jan 2012	Mar 2012	Aug 2012
Methane (%)	0.058 U	-	-
Methane, field (%)	0.1/0.1	0.0/0.0	0
Trichloroethene (ppb)	690 (b)	680 (b)	-

SS-15-A	Jan 2012	Mar 2012	Aug 2012	Feb 2014	Apr 2014	Feb 2015	Jul 2015
Methane (%)	-	-	-	-	-	-	0.22 U/0.21 U
Methane, field (%)	0.0/0.0	0.0/0.0	0	-	-	-	-
Trichloroethene (ppb)	400 (b)	390 (b)	-	2.0	3.1	1.4	2.0/2.0

IA-15-A	Mar 2012	Feb 2014	Apr 2014	Feb 2015	Jul 2015
Methane (%)	-	-	-	-	0.20 U
Methane, field (%)	0.0/0.0	-	-	-	-
Trichloroethene (ppb)	5.2 (a)	2.0	3.0 (a)	1.4	1.7

IA-15-C	Mar 2012	Feb 2014	Feb 2015	Jul 2015
Methane (%)	-	-	4.0 U	0.22 U
Methane, field (%)	0.0/0	-	-	-
Tetrachloroethene (ppb)	120 (a)	3.9	0.94	6.3

IA-15-C	Mar 2012
	ppb
Trichloroethene	120 (a)

SS-15-C	Jan 2012	Mar 2012	Feb 2014	Apr 2014	Feb 2015	Jul 2015
Benzene (ppb)	R/230 (b)	320 (b)	36 (b)	60 (b)/62 (b)	8.4	2.5
cis-1,2-Dichloroethene (ppb)	R/7400 (b)	10000 (b)	1700 (b)	2200 (b)/2300 (b)	130 J	780 (b)
Methane (%)	-	0.97 (b)	-	-	4.0 U	0.21 U
Methane, field (%)	1.1 (b)/1.2 (b)/1.2 (b)/1.1 (b)	0.9 (b)/0.9 (b)/0.8 (b)/0.8 (b)	-	-	-	-
Trichloroethene (ppb)	R/95 (b)	120 (b)	25 (b)	61 (b)/63 (b)	16.4	87 (b)
Vinyl chloride (ppb)	R/1100 (b)	1700 (b)	350 (b)	99 (b)/97 (b)	6.6 J	26 (b)

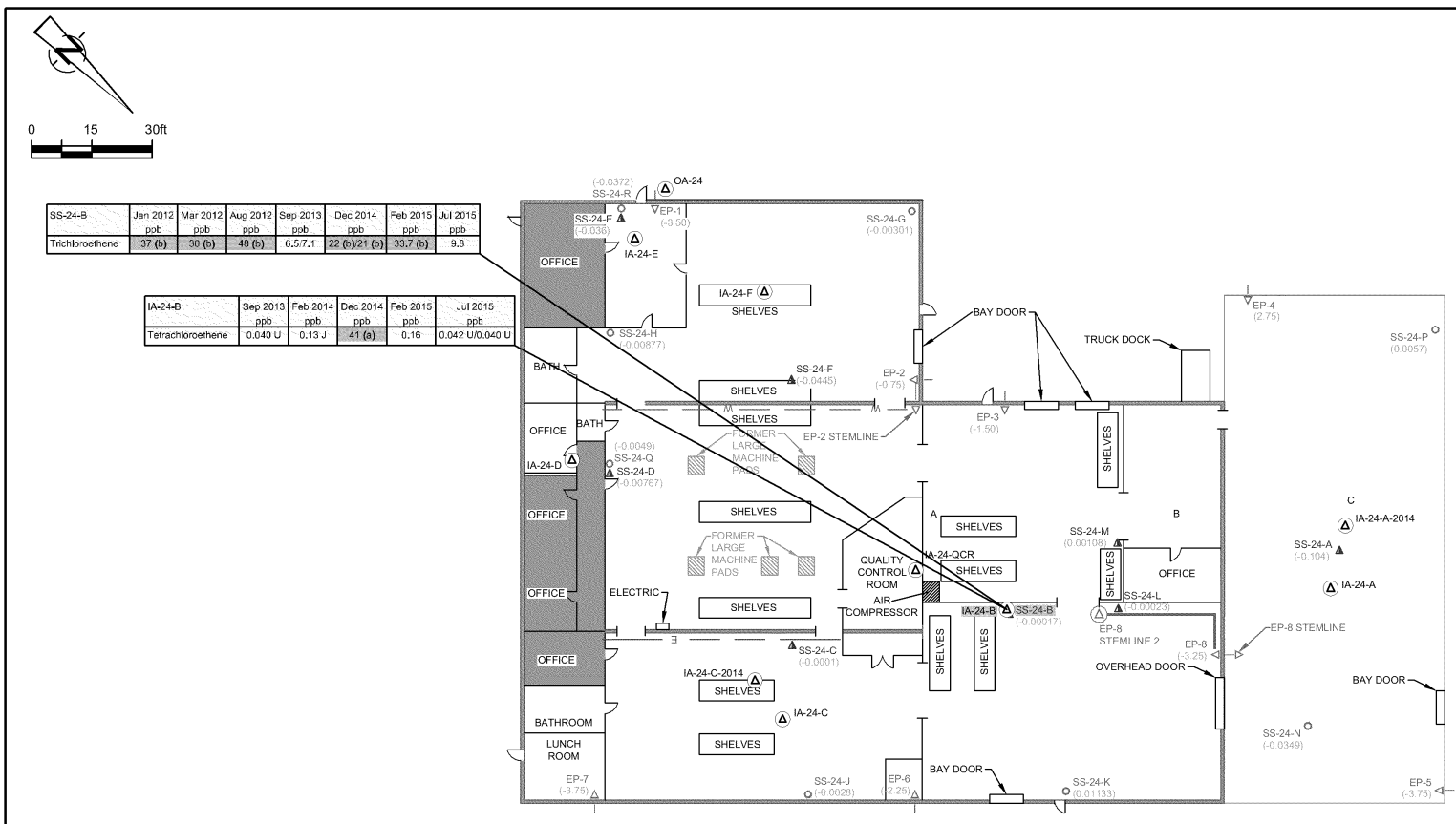
OA-15	Mar 2012	Jul 2015
Methane (%)	-	0.21 U
Methane, field (%)	0.0/0.0	-

VAS-15	Max
cis-1,2-Dichloroethene (ug/L)	150 (c)
Trichloroethene (ug/L)	18 (cd)
Vinyl chloride (ug/L)	30 (cd)

figure 5

2031 DRYDEN ROAD
PARCEL NUMBER 5173, SIM TRAINING BUILDING 15
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-62(MEMO029)GN-WA005 NOV 6/2015



SS-24-B	Jan 2012 ppb	Mar 2012 ppb	Aug 2012 ppb	Sep 2013 ppb	Dec 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
Trichloroethene	37 (b)	30 (b)	48 (b)	6.5/7.1	22 (b)/21 (b)	33.7 (b)	9.8

IA-24-B	Sep 2013 ppb	Feb 2014 ppb	Dec 2014 ppb	Feb 2015 ppb	Jul 2015 ppb
Tetrachloroethene	0.040 U	0.13 J	41 (a)	0.16	0.042 U/0.040 U

LEGEND

- EP-1 △ SUCTION POINT LOCATION
- PIPING AND FAN LOCATION
- CP-1 ○ COMPLIANCE POINT LOCATION
- EP-8 △ PROPOSED SUCTION POINT LOCATION
- PROPOSED PIPING AND FAN LOCATION
- BH19-13 ■ BOREHOLE LOCATION
- CONCRETE BLOCK
- SHEET METAL
- INTERIOR WALL
- WATER LINE
- ELECTRICAL LINE
- CARPET
- DOOR
- SS-24-A ▲ EXISTING SOIL VAPOR PROBE LOCATION
- IA-24-A △ EXISTING INDOOR AIR LOCATION
- PROPOSED 2015 SAMPLE LOCATION
- EXCEEDS SPECIFIED SCREENING LEVEL
- (-0.0168) VACUUM READING MEASURED ON JULY 13, 2015 IN INCHES OF WATER COLUMN (" W.C.)

IA-24-A	Mar 2012
Methane	%
Methane, field	- 0/0.0

SAMPLE IDENTIFICATION
SAMPLE DATE
SAMPLE UNITS
CRITERIA
CONCENTRATION
PARAMETER

Chemical	ODH Non-Residential Screening Levels		USEPA Regional Screening Levels (THQ = 0.1)	
	Indoor Air (a) (ppb)	Sub-Slab (b) (ppb)	MCL (c) [illegible]	Protection of Industrial Indoor Air (d) [illegible]
Tetrachloroethene	25	250	5	11
Trichloroethene	2	20	5	0.49

figure 6

2215 EAST RIVER ROAD
PARCEL NUMBER 3207, BUILDING 24
SOUTH DAYTON DUMP AND LANDFILL SITE
Moraine, Ohio

38443-62(MEMO029)GN-WA006 SEP 9/2015

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-8-A	IA-8-A	IA-8-A	IA-8-A	IA-8-C	IA-8-C	IA-8-C	IA-8-D
Sample Date:					9/12/2013	1/9/2014	2/17/2015	7/15/2015	3/14/2012	8/7/2012	9/12/2013	9/12/2013
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.24 U	0.13 U	0.026 U	0.95 U	0.026 U	0.026 U	0.026 U
Benzene	20	2	200	20	0.15 J	1.6 J	8.0[c]	0.63	20[c]	0.44	0.38	0.55
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.35 U	0.19 U	0.038 U	1.4 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.55 U	0.30 U	0.060 U	2.2 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	0.29	21	17	0.33	34	1.1	6.6	7.1
m&p-Xylenes	2000	200	20000	2000	1.2	100	72	1.7	140	3.7	28	31
Naphthalene	29	2.9	-	-	0.090 U	0.97 J	0.82 J	0.090 U	3.3 U	0.090 U	0.45 J	0.62
o-Xylene	2000	200	20000	2000	0.65	44	28	0.86	44	1.1	15	17
Tetrachloroethene	250	25	2500	250	0.040 U	0.36 U	0.20 U	0.040 U	1.5 U	0.062 J	0.23	0.36
Trichloroethene	20	2	200	20	0.036 U	0.33 U	1.7	0.036 U	1.5 J	0.12 J	0.076 J	0.052 J
Vinyl chloride	20	2	200	20	0.071 U	0.65 U	0.36 U	0.071 U	2.6 U	0.071 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-8-D	IA-8-D	IA-8-D	IA-8-D	IA-8-F	IA-8-F	IA-8-F	IA-8-F
Sample Date:					1/9/2014	2/17/2015	2/17/2015	7/15/2015	3/14/2012	8/7/2012	8/7/2012 Duplicate	9/12/2013
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas a	Indoor Air c	Sub-Slab Soil Gas b	Indoor Air d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.26 U	0.13 U	0.27 U	0.052 U	0.99 U	0.026 U	0.026 U	0.026 U
Benzene	20	2	200	20	2.3[c]	7.3[c]	9.1[c]	0.34 J	13[c]	0.99	0.79	0.57
Chloroform (Trichloromethane)	800	80	8000	800	0.38 U	0.19 U	0.14 U	0.076 U	1.4 U	0.091 J	0.067 J	0.047 J
cis-1,2-Dichloroethene	370	37	3700	370	0.60 U	0.30 U	0.69 U	0.12 U	2.3 U	0.060 U	0.25	0.060 U
Ethylbenzene	2500	250	25000	2500	41	19	25.4	7.6	27	9.5	7.6	7.2
m&p-Xylenes	2000	200	20000	2000	190	77	74.3	43	110	36	32	32
Naphthalene	29	2.9	-	-	1.5 J	0.45 U	0.69 U	0.39 J	3.4 U	0.090 UJ	0.096 J	0.36 J
o-Xylene	2000	200	20000	2000	76	28	37.2	25	33	8.5	8.4	10
Tetrachloroethene	250	25	2500	250	0.40 U	0.20 U	0.14 U	0.080 U	1.5 U	0.13 J	0.076 J	0.14 J
Trichloroethene	20	2	200	20	0.38 J	0.32 J	0.44	0.072 U	1.4 U	0.96	0.89	0.11 J
Vinyl chloride	20	2	200	20	0.71 U	0.36 U	0.14 U	0.14 U	2.7 U	0.071 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					**IA-8-F**	**IA-8-F**	**IA-8-F**	**IA-8-Office**	**IA-8-Office**	**IA-8-Office**	**IA-8-Office**	**OA-8**
Sample Date:					**1/9/2014**	**2/17/2015**	**7/15/2015**	**3/14/2012**	**8/7/2012**	**9/12/2013**	**1/9/2014**	**3/14/2012**
	ODH Non-Residential Screening Levels		**ODH Non-Residential Action Levels**									
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.065 UJ	0.026 U	0.10 U	6.1 U	0.026 U	0.026 U	0.26 U	0.026 U
Benzene	20	2	200	20	0.52 J	2.0	3.4[c]	26 J[cd]	0.41	0.23	2.4[c]	0.41
Chloroform (Trichloromethane)	800	80	8000	800	0.095 UJ	0.038 U	0.15 U	9.0 U	0.043 J	0.059 J	0.38 U	0.17 J
cis-1,2-Dichloroethene	370	37	3700	370	0.15 UJ	0.060 U	0.24 U	14 U	0.060 U	0.060 U	0.60 U	0.060 U
Ethylbenzene	2500	250	25000	2500	12 J	4.4	26	22 J	3.8	2.9	28	0.16 J
m&p-Xylenes	2000	200	20000	2000	56 J	19	100	89	15	12	130	0.52
Naphthalene	29	2.9	-	-	0.27 J	0.25 J	0.36 U	21 U	0.090 U	0.39 J	1.4 J	0.090 U
o-Xylene	2000	200	20000	2000	18 J	6.9	33	30 J	4.3	4.6	54	0.19 J
Tetrachloroethene	250	25	2500	250	0.10 UJ	0.055 J	2.1	9.5 U	0.040 U	0.091 J	0.40 U	0.18 J
Trichloroethene	20	2	200	20	0.14 J	0.17 J	0.24 J	8.5 U	0.29	0.057 J	0.36 U	0.052 J
Vinyl chloride	20	2	200	20	0.18 UJ	0.071 U	0.28 U	17 U	0.071 U	0.071 U	0.71 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					OA-8	OA-8	OA-8	OA-8-2015	SS-8-A	SS-8-A	SS-8-A	SS-8-A
Sample Date:					8/7/2012	1/9/2014	7/15/2015	2/17/2015	1/11/2012	3/14/2012	8/7/2012	9/12/2013
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	2.8 U	2.8 U	0.25 J	0.81 U
Benzene	20	2	200	20	0.30	0.25	0.098 J	0.32	1.5 U	6.0 U	1.1 J	1.8 U
Chloroform (Trichloromethane)	800	80	8000	800	0.042 J	0.038 U	0.038 U	0.038 U	16	17 J	25	9.8
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	27	28	48	110
Ethylbenzene	2500	250	25000	2500	1.9	0.16 J	0.073 J	0.068 J	1.8 U	7.3 U	0.54 U	2.1 U
m&p-Xylenes	2000	200	20000	2000	8.2	0.59	0.27	0.19 J	3.9 U	13 U	1.4 J	5.2 J
Naphthalene	29	2.9	-	-	0.090 UJ	0.090 UJ	0.090 U	0.090 U	6.9 UJ	9.6 U	0.72 UJ	2.8 U
o-Xylene	2000	200	20000	2000	2.5	0.22	0.093 J	0.069 J	1.8 U	6.5 U	0.69 J	1.9 U
Tetrachloroethene	250	25	2500	250	0.040 U	0.040 U	0.040 U	0.040 U	8.5 J	7.8 J	15	15
Trichloroethene	20	2	200	20	0.072 J	0.036 U	0.036 U	0.036 U	1400[ab]	960[ab]	1800[ab]	780[ab]
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	2.3 U	7.6 U	0.57 U	2.2 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-A	SS-8-B	SS-8-B	SS-8-B
Sample Date:					1/9/2014	3/10/2014	2/17/2015	2/17/2015	7/15/2015	1/11/2012	3/14/2012	8/7/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.26 U	0.26 U	0.29 U	0.13 U	1.5 U	0.10 U	0.13 U	0.26 U
Benzene	20	2	200	20	0.56 U	1.5 J	0.65	0.57 J	3.2 U	0.13 J	1.1	0.74 J
Chloroform (Trichloromethane)	800	80	8000	800	2.2	3.9	1.9	1.8	7.3 J	0.74	1.0	2.3
cis-1,2-Dichloroethene	370	37	3700	370	17	20	16.3	13	29	0.49 J	0.55 J	1.4 J
Ethylbenzene	2500	250	25000	2500	0.97 J	0.68 U	6.6	4.4	3.9 U	0.80	0.34 U	1.0 J
m&p-Xylenes	2000	200	20000	2000	4.3	1.2 J	38.3	26	6.9 U	1.1 J	0.60 U	4.1
Naphthalene	29	2.9	-	-	0.90 UJ	0.90 U	0.94	0.45 U	5.2 U	0.26 U	0.45 U	0.90 U
o-Xylene	2000	200	20000	2000	1.7 J	0.61 U	27.4	20	3.5 U	0.40 J	0.30 U	1.8 J
Tetrachloroethene	250	25	2500	250	3.3	3.1	3	2.2	7.1 J	76	79	220
Trichloroethene	20	2	200	20	220[ab]	240[ab]	158[a]	160[a]	480[ab]	31[a]	26[a]	95[a]
Vinyl chloride	20	2	200	20	0.71 U	0.71 U	0.15 U	0.36 U	4.1 U	0.087 U	0.36 U	0.71 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-8-C	SS-8-C	SS-8-C	SS-8-D	SS-8-D	SS-8-D	SS-8-D	SS-8-D
Sample Date:					1/11/2012	3/14/2012	8/7/2012	1/11/2012	3/14/2012	3/14/2012 Duplicate	8/7/2012	9/12/2013
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas a	Indoor Air c	Sub-Slab Soil Gas b	Indoor Air d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.076 J	0.28 U	0.22 J	0.69 U	0.75 U	0.75 U	1.0 U	0.26 U
Benzene	20	2	200	20	0.077 J	0.59 U	0.28 U	0.35 U	1.6 U	1.6 U	2.2 U	0.56 U
Chloroform (Trichloromethane)	800	80	8000	800	0.89	1.4 J	3.3	3.8 J	4.9 J	5.0 J	7.4 J	2.6
cis-1,2-Dichloroethene	370	37	3700	370	1.7	2.7	5.0	10	13	14	20	4.6
Ethylbenzene	2500	250	25000	2500	0.10 J	0.72 U	0.34 U	0.43 U	2.0 U	2.0 U	2.7 U	0.68 U
m&p-Xylenes	2000	200	20000	2000	0.42 J	1.3 U	0.60 U	0.95 U	3.4 U	3.4 U	4.7 U	1.9 J
Naphthalene	29	2.9	-	-	0.13 UJ	0.95 U	0.45 U	1.7 UJ	2.6 U	2.6 U	3.5 U	0.90 U
o-Xylene	2000	200	20000	2000	0.15 J	0.65 U	0.30 U	0.43 U	1.8 U	1.8 U	2.4 U	0.84 J
Tetrachloroethene	250	25	2500	250	21	32	78	8.4	14	11	28	11
Trichloroethene	20	2	200	20	11	17	35[a]	420[ab]	420[ab]	350[ab]	930[ab]	200[a]
Vinyl chloride	20	2	200	20	0.044 U	0.75 U	0.36 U	0.57 U	2.0 U	2.0 U	2.8 U	0.71 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-8-D	SS-8-D	SS-8-D	SS-8-D	SS-8-D	SS-8-D	SS-8-F	SS-8-F
Sample Date:					9/12/2013	1/9/2014	1/9/2014	3/10/2014	7/15/2015	7/15/2015	1/11/2012	1/11/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels		Duplicate		Duplicate			Duplicate		Duplicate
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.26 U	0.052 U	0.065 U	0.029 J	0.052 U	0.033 U	0.035 U	0.052 U
Benzene	20	2	200	20	0.56 U	0.65	0.69	3.8	0.35 J	0.27	0.17 J	0.18 J
Chloroform (Trichloromethane)	800	80	8000	800	3.5	0.53	0.59	0.068 J	0.53	0.53	0.19 J	0.20 J
cis-1,2-Dichloroethene	370	37	3700	370	6.1	1.2	1.4	0.21	1.8	1.8	0.014 U	0.021 U
Ethylbenzene	2500	250	25000	2500	0.68 U	2.4	3.5	15	0.56	0.44	0.20	0.18 J
m&p-Xylenes	2000	200	20000	2000	2.2	8.0	12	57	3.0	2.3	0.44 J	0.31 J
Naphthalene	29	2.9	-	-	0.90 U	0.18 UJ	0.23 UJ	0.60	0.18 U	0.11 U	0.086 UJ	0.13 J
o-Xylene	2000	200	20000	2000	1.0 J	4.3	6.4	27	1.6	1.3	0.18 J	0.13 J
Tetrachloroethene	250	25	2500	250	15	3.6	4.5	0.57	5.6	5.1	0.59	0.62
Trichloroethene	20	2	200	20	290[ab]	36[a]	43[a]	0.48	34[a]	32[a]	5.3	5.6
Vinyl chloride	20	2	200	20	0.71 U	0.14 U	0.18 U	0.071 U	0.14 U	0.089 U	0.029 U	0.043 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 1

Summary Of Building 8 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					**SS-8-F**	**SS-8-F**	**SS-8-F**
Sample Date:					**3/14/2012**	**8/7/2012**	**7/15/2015**
	ODH Non-Residential Screening Levels		**ODH Non-Residential Action Levels**				
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**			
	a	**c**	**b**	**d**			
Volatile Organic Compounds							
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U
Benzene	20	2	200	20	0.26	0.23	0.099 J
Chloroform (Trichloromethane)	800	80	8000	800	0.22	0.14 J	0.18 J
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	0.43	0.79	0.18 J
m&p-Xylenes	2000	200	20000	2000	1.2	2.9	0.64
Naphthalene	29	2.9	-	-	0.090 U	0.090 U	0.090 U
o-Xylene	2000	200	20000	2000	0.37	0.83	0.23
Tetrachloroethene	250	25	2500	250	0.81	0.50	0.95
Trichloroethene	20	2	200	20	5.3	3.0	2.4
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary Of Building 9 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-9-A	IA-9-A	IA-9-A	IA-9-A	IA-9-A	IA-9-A	IA-9-A	IA-9-B
Sample Date:					3/27/2012	10/24/2013	3/10/2014	2/17/2015	2/17/2015	7/15/2015	7/15/2015 Duplicate	3/14/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas a	Indoor Air c	Sub-Slab Soil Gas b	Indoor Air d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	7.9 U	2.5 U	3.6 U	3.9 U	0.29 U	0.13 U	0.052 U	22 U
Benzene	20	2	200	20	17 U	5.3 U	17 J[c]	8.5 U	4[c]	0.28 U	0.26 J	48 U
Chloroform (Trichloromethane)	800	80	8000	800	12 U	3.6 U	5.3 U	5.8 U	0.14 U	0.19 U	0.076 U	32 U
cis-1,2-Dichloroethene	370	37	3700	370	18 U	5.7 U	8.4 U	9.1 U	0.72 U	0.30 U	0.12 U	51 U
Ethylbenzene	2500	250	25000	2500	270[c]	42	100	44	36.7	0.68 J	1.3 J	94 J
m&p-Xylenes	2000	200	20000	2000	1200[c]	180	470[c]	170	103	2.9 J	5.9 J	420[c]
Naphthalene	29	2.9	-	-	27 U	8.5 U	13 U	14 U	0.71 U	0.45 U	0.18 UJ	76 U
o-Xylene	2000	200	20000	2000	390[c]	66	130	49	40.1	0.95 J	1.8 J	150 J
Tetrachloroethene	250	25	2500	250	12 U	3.8 U	5.6 U	6.1 U	0.14 U	0.20 U	0.080 U	34 U
Trichloroethene	20	2	200	20	13 J[c]	3.4 U	5.0 U	5.4 U	0.14 U	0.18 U	0.072 U	31 U
Vinyl chloride	20	2	200	20	22 U	6.7 U	9.9 U	11 U	0.14 U	0.36 U	0.14 U	60 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary Of Building 9 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-9-B	IA-9-B	IA-9-B	IA-9-B	IA-9-E	IA-9-E	OA-9	OA-9
Sample Date:					10/24/2013	3/10/2014	5/20/2014	2/17/2015	5/20/2014	5/20/2014 Duplicate	3/14/2012	10/24/2013
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas a	Indoor Air c	Sub-Slab Soil Gas b	Indoor Air d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	6.3 U	0.47 U	0.026 U	0.52 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	20	2	200	20	14 U	8.1[c]	0.15 J	4.2[c]	0.17 J	0.19 J	0.32	0.056 U
Chloroform (Trichloromethane)	800	80	8000	800	9.2 U	0.69 U	0.038 U	0.76 U	0.038 U	0.038 U	0.17 J	0.038 U
cis-1,2-Dichloroethene	370	37	3700	370	15 U	1.1 U	0.060 U	1.2 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	39 J	73	0.41	39	3.1	3.9	0.14 J	0.068 U
m&p-Xylenes	2000	200	20000	2000	160	310[c]	1.8	150	13	17	0.48	0.12 U
Naphthalene	29	2.9	-	-	22 U	1.6 U	0.090 U	1.8 U	0.090 U	0.090 U	0.090 U	0.090 U
o-Xylene	2000	200	20000	2000	60	85	0.70	44	5.0	6.3	0.16 J	0.061 U
Tetrachloroethene	250	25	2500	250	9.7 U	0.73 U	0.040 U	0.80 U	0.040 U	0.040 U	0.23	0.040 U
Trichloroethene	20	2	200	20	8.7 U	0.65 U	0.036 U	0.72 U	0.036 U	0.036 U	0.50	0.036 U
Vinyl chloride	20	2	200	20	17 U	1.3 U	0.071 U	1.4 U	0.071 U	0.071 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary Of Building 9 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					OA-9	OA-9	OA-9	OA-9	OA-9-Tree	SS-9-A	SS-9-A	SS-9-A
Sample Date:					3/10/2014	5/20/2014	2/17/2015	7/15/2015	3/27/2012	1/11/2012	1/11/2012 Duplicate	3/27/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	3.5 U	3.5 U	4.3 U
Benzene	20	2	200	20	0.25	0.16 J	0.31	0.079 J	0.15 J	1.8 U	1.8 U	9.2 U
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	4.6 J	4.3 J	8.6 J
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	1.4 U	1.4 U	9.9 U
Ethylbenzene	2500	250	25000	2500	0.10 J	0.068 U	0.068 U	0.068 U	0.068 U	2.2 U	2.2 U	11 U
m&p-Xylenes	2000	200	20000	2000	0.36	0.16 J	0.14 J	0.24	0.12 U	4.8 U	4.8 U	20 U
Naphthalene	29	2.9	-	-	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U	8.6 UJ	8.6 UJ	15 U
o-Xylene	2000	200	20000	2000	0.11 J	0.066 J	0.061 U	0.083 J	0.061 U	2.2 U	2.2 U	10 U
Tetrachloroethene	250	25	2500	250	0.040 U	0.064 J	0.040 U	0.040 U	0.040 U	48	54	80
Trichloroethene	20	2	200	20	0.036 U	0.036 U	0.45	0.036 U	0.042 J	1800[ab]	1800[ab]	3100[ab]
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	2.9 U	2.9 U	12 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 2

Summary Of Building 9 - B+G Trucking VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					**SS-9-A**	**SS-9-A**	**SS-9-A**	**SS-9-B**	**SS-9-B**	**SS-9-B**	**SS-9-E**
Sample Date:					**2/17/2015**	**2/17/2015**	**7/15/2015**	**1/11/2012**	**3/14/2012**	**5/20/2014**	**5/20/2014**
	ODH Non-Residential Screening Levels		**ODH Non-Residential Action Levels**								
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**							
	a	**c**	**b**	**d**							
Volatile Organic Compounds											
1,1-Dichloroethane	160	16	1600	160	0.29 U	1.7 U	2.5 U	2.6 U	5.4 U	1.9	0.21 U
Benzene	20	2	200	20	2	3.6 U	5.5 U	1.4 U	12 U	0.056 U	0.45 U
Chloroform (Trichloromethane)	800	80	8000	800	0.69	2.5 U	3.7 U	2.3 U	7.9 U	1.6	0.64 J
cis-1,2-Dichloroethene	370	37	3700	370	0.72 U	3.9 U	5.8 U	1.1 U	12 U	0.060 U	0.48 U
Ethylbenzene	2500	250	25000	2500	4.8	4.4 U	6.6 U	22	19 J	2.0	2.1
m&p-Xylenes	2000	200	20000	2000	6.1	7.8 U	12 U	92	76	9.2	8.9
Naphthalene	29	2.9	-	-	0.71 U	5.9 U	8.8 UJ	6.5 UJ	19 U	0.090 U	0.72 U
o-Xylene	2000	200	20000	2000	0.93	4.0 U	5.9 U	27	26 J	3.0	3.0
Tetrachloroethene	250	25	2500	250	30.5	23	86	0.83 U	8.3 U	0.50	8.2
Trichloroethene	20	2	200	20	644[ab]	580[ab]	1700[ab]	2.3 U	7.5 U	1.3	150[a]
Vinyl chloride	20	2	200	20	0.14 U	4.6 U	6.9 U	2.2 U	15 U	0.071 U	0.57 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 3

Summary of Historic Vacuum Readings
B+G Trucking
1951 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Historic Sub-Slab Vacuum Readings[1,2]

Sub-Slab Location	9/30/2013	10/11/2013	2/17/2015	7/6/2015	Historic Average Vacuum Readings
SS-9-A	nm	-0.01404	-0.01246	-0.00256	-0.0097
SS-9-B	-0.114	-0.1197	-0.1687	-0.2	-0.1506
SS-9-C	-0.0689	-0.0678	-0.0981	-0.126	-0.0902
SS-9-D	-0.0047	-0.0049	0.00107	-0.01169	-0.0051
SS-9-E	-0.016	-0.0166	damaged	damaged	-0.0163
Extraction Point					
EP-1	nm	-3	-3.25	-3	-3.1
EP-2	nm	-3.75	-4	-3.75	-3.8

Notes :

-- Denotes no exceedances at sample location
nm - Denotes not monitored
N/A - Denotes the value is not applicable or can't be calculated
[1] - All vacuum readings are in units of inches of water column (in WC.)
[2] - All presented vacuum readings are after last system upgrade on 8/3/2013

Table 4

Summary Of Building 12 - Overstreet Painting VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A	IA-12-OP-A-2012
Sample Date:					10/24/2013	1/17/2014	4/3/2014	2/18/2015	2/18/2015	7/13/2015	3/15/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels								
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air							
	a	c	b	d							
Volatile Organic Compounds											
1,1-Dichloroethane	160	16	1600	160	0.10 U	0.026 U	0.052 U	R	0.24 U	0.26 U	0.026 U
Benzene	20	2	200	20	8.8[c]	3.5[c]	7.4[c]	R	5[c]	4.4[c]	9.7[c]
Chloroform (Trichloromethane)	800	80	8000	800	0.15 U	0.038 U	0.076 U	R	0.12 U	0.38 U	0.23
cis-1,2-Dichloroethene	370	37	3700	370	0.35 J	0.060 U	0.12 U	R	0.62 U	0.60 U	0.35
Ethylbenzene	2500	250	25000	2500	9.9	4.8	12	R	8.8	10	8.4
m&p-Xylenes	2000	200	20000	2000	37	19	46	R	34.4	44	34
Naphthalene	29	2.9	-	-	0.36 U	0.47 J	0.81 J	R	3.3[c]	1.1 J	0.37 J
o-Xylene	2000	200	20000	2000	12	6.2	17	R	10.1	15	12
Tetrachloroethene	250	25	2500	250	0.16 U	0.18 U	0.080 U	R	0.13 U	0.40 U	0.24
Trichloroethene	20	2	200	20	6.0[c]	0.54	0.33 J	R	0.24	0.36 U	5.0[c]
Vinyl chloride	20	2	200	20	0.28 U	0.071 U	0.14 U	R	0.13 U	0.71 U	0.071 U
Radiology											
Radon-222	-	-	-	-	-	-	-	-	-	-	2.1 +/-0.1

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary Of Building 12 - Overstreet Painting VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	IA-12-OP-B	OA-12-OP	OA-12-OP
Sample Date:					3/15/2012	10/24/2013	1/17/2014	4/3/2014	7/13/2015	3/15/2012	4/3/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels								
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air							
	a	c	b	d							
Volatile Organic Compounds											
1,1-Dichloroethane	160	16	1600	160	0.10 U	0.10 U	0.026 U	0.26 U	0.14 U	0.026 U	0.026 U
Benzene	20	2	200	20	14[c]	11[c]	5.0[c]	25[cd]	4.2[c]	0.22	0.33
Chloroform (Trichloromethane)	800	80	8000	800	0.37 J	0.15 U	0.038 U	0.38 U	0.21 J	0.074 J	0.038 U
cis-1,2-Dichloroethene	370	37	3700	370	0.37 J	0.36 J	0.060 U	0.60 U	0.31 U	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	10	13	7.4	29	8.9	0.068 U	0.13 J
m&p-Xylenes	2000	200	20000	2000	37	50	29	110	37	0.12 U	0.44
Naphthalene	29	2.9	-	-	0.89 J	0.54 J	0.51 J	0.90 U	0.47 U	0.090 U	0.090 U
o-Xylene	2000	200	20000	2000	12	16	9.4	38	12	0.061 U	0.17 J
Tetrachloroethene	250	25	2500	250	0.51 J	0.16 U	0.12 U	0.40 U	0.21 U	0.057 J	0.040 U
Trichloroethene	20	2	200	20	5.6[c]	5.8[c]	0.43	0.36 U	0.19 U	0.10 J	0.036 U
Vinyl chloride	20	2	200	20	0.28 U	0.28 U	0.071 U	0.71 U	0.37 U	0.071 U	0.071 U
Radiology											
Radon-222	-	-	-	-	2.0 +/-0.1	-	-	-	0.04 +/-0.06	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary Of Building 12 - Overstreet Painting VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					OA-12-OP-2015	OA-12-OP-2015	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A	SS-12-OP-A
Sample Date:					2/18/2015	7/13/2015	1/6/2012	3/15/2012	10/24/2013	1/17/2014	4/3/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels								
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air							
	a	c	b	d							
Volatile Organic Compounds											
1,1-Dichloroethane	160	16	1600	160	0.026 UJ	0.026 U	5.3 U	5.8 J	6.6 U	0.61 U	2.1 U
Benzene	20	2	200	20	0.15 J	0.12 J	2.7 U	3.9 U	14 U	1.3 U	4.6 U
Chloroform (Trichloromethane)	800	80	8000	800	0.038 UJ	0.038 U	51	66	100	11	17
cis-1,2-Dichloroethene	370	37	3700	370	0.060 UJ	0.060 U	570[a]	920[a]	990[a]	140	260
Ethylbenzene	2500	250	25000	2500	0.068 UJ	0.084 J	3.3 U	4.7 U	17 U	1.6 U	5.6 U
m&p-Xylenes	2000	200	20000	2000	0.12 UJ	0.32	7.2 U	8.3 U	30 U	2.8 U	9.8 U
Naphthalene	29	2.9	-	-	0.090 UJ	0.090 U	13 U	6.2 U	23 U	2.1 U	7.4 U
o-Xylene	2000	200	20000	2000	0.061 UJ	0.12 J	3.3 U	4.2 U	15 U	1.4 U	5.0 U
Tetrachloroethene	250	25	2500	250	0.040 UJ	0.040 U	3.8 J	3.9 J	10 U	1.1 J	3.3 U
Trichloroethene	20	2	200	20	0.036 UJ	0.036 U	2400[ab]	2600[ab]	4800[ab]	710[ab]	950[ab]
Vinyl chloride	20	2	200	20	0.071 UJ	0.071 U	4.4 U	4.9 U	18 U	1.7 U	5.8 U
Radiology											
Radon-222	-	-	-	-	-	-	-	418 +/-21	-	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary Of Building 12 - Overstreet Painting VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-12-OP-A	SS-12-OP-A	SS-12-OP-B	SS-12-OP-B	SS-12-OP-B	SS-12-OP-B	SS-12-OP-B	SS-12-OP-B
Sample Date:					2/18/2015	7/13/2015	1/6/2012	3/15/2012	10/24/2013	1/17/2014	4/3/2014	2/18/2015
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.52 U	0.35 U	5.2 U	5.9 U	5.2 U	2.1 U	2.1 U	3.6 U
Benzene	20	2	200	20	1.1 U	0.76 U	2.7 U	13 U	11 U	4.5 U	16	7.7 U
Chloroform (Trichloromethane)	800	80	8000	800	6.1	8.8	71	110	97	68	22	25 J
cis-1,2-Dichloroethene	370	37	3700	370	94	110	440[a]	770[a]	290	220	100	140
Ethylbenzene	2500	250	25000	2500	1.4 U	0.93 U	3.3 U	15 U	14 U	5.4 U	21	9.3 U
m&p-Xylenes	2000	200	20000	2000	3.4 J	3.2	7.1 U	27 U	24 U	9.6 U	78	16 U
Naphthalene	29	2.9	-	-	1.8 U	1.2 U	13 U	20 U	18 U	7.2 U	7.1 U	12 U
o-Xylene	2000	200	20000	2000	1.2 U	1.2 J	3.3 U	14 U	12 U	4.9 U	27	8.4 U
Tetrachloroethene	250	25	2500	250	14	1.7 J	4.9 J	9.8 J	30 J	37	13 J	16 J
Trichloroethene	20	2	200	20	270[ab]	460[ab]	2800[ab]	5400[ab]	4700[ab]	4500[ab]	1100[ab]	1500[ab]
Vinyl chloride	20	2	200	20	1.4 U	0.97 U	4.3 U	16 U	14 U	5.7 U	5.6 U	9.8 U
Radiology												
Radon-222	-	-	-	-	-	-	-	514 +/-26	-	-	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 4

Summary Of Building 12 - Overstreet Painting VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					**SS-12-OP-B**	**SS-12-OP-B**	**SS-12-OP-B**	**SS-12-OP-C**
Sample Date:					**2/18/2015**	**7/13/2015**	**7/13/2015**	**10/24/2013**
	ODH Non-Residential Screening Levels		**ODH Non-Residential Action Levels**		**Duplicate**		**Duplicate**	
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**				
	a	**c**	**b**	**d**				
Volatile Organic Compounds								
1,1-Dichloroethane	160	16	1600	160	3.5 U	3.1 U	2.5 U	-
Benzene	20	2	200	20	7.6 U	6.8 U	5.3 U	-
Chloroform (Trichloromethane)	800	80	8000	800	24 J	15 J	11 J	-
cis-1,2-Dichloroethene	370	37	3700	370	140	96	64	-
Ethylbenzene	2500	250	25000	2500	9.3 U	8.2 U	6.4 U	-
m&p-Xylenes	2000	200	20000	2000	16 U	14 U	11 U	-
Naphthalene	29	2.9	-	-	12 U	11 U	8.5 U	-
o-Xylene	2000	200	20000	2000	8.3 U	7.4 U	5.8 U	-
Tetrachloroethene	250	25	2500	250	16 J	24	17 J	-
Trichloroethene	20	2	200	20	1500[ab]	1300[ab]	800[ab]	1800[ab]
Vinyl chloride	20	2	200	20	9.7 U	8.6 U	6.7 U	-
Radiology								
Radon-222	-	-	-	-	-	166 +/-8	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary Of Building 12 - S+J Precision VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-12-SJ-A	IA-12-SJ-A	IA-12-SJ-A	IA-12-SJ-A	IA-12-SJ-B	IA-12-SJ-B	IA-12-SJ-B	IA-12-SJ-C
Sample Date:					3/7/2012	10/24/2013	1/17/2014	4/2/2014	10/24/2013	2/18/2015	7/13/2015	10/24/2013
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.13 U	0.026 U	0.026 U	0.13 U	0.47 U	0.026 U	0.13 U
Benzene	20	2	200	20	0.22	0.34 J	0.20	0.28	0.31 J	1.0 U	0.24	0.34 J
Chloroform (Trichloromethane)	800	80	8000	800	0.066 J	0.19 U	0.038 U	0.038 U	0.19 U	0.69 U	0.085 J	0.19 U
cis-1,2-Dichloroethene	370	37	3700	370	0.077 J	0.30 U	0.060 U	0.060 U	0.30 U	1.1 U	0.060 U	0.30 U
Ethylbenzene	2500	250	25000	2500	0.17 J	1.1	0.77	6.1	1.1	15	2.7	1.5
m&p-Xylenes	2000	200	20000	2000	0.58	3.6	2.6	14	3.3	41 J	7.9	4.4
Naphthalene	29	2.9	-	-	0.12 J	0.45 U	0.090 UJ	0.097 J	0.45 U	1.6 U	0.70	0.45 U
o-Xylene	2000	200	20000	2000	0.25	1.2	0.80	2.7	1.1	9.4	3.3	1.2
Tetrachloroethene	250	25	2500	250	0.62	0.40 J	0.33	0.41	0.43 J	0.73 U	0.58	0.60 J
Trichloroethene	20	2	200	20	2.7[c]	0.65 J	0.22	0.14 J	0.55 J	1.4 J	0.20	0.69 J
Vinyl chloride	20	2	200	20	0.071 U	0.36 U	0.071 U	0.071 U	0.36 U	1.3 U	0.071 U	0.36 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary Of Building 12 - S+J Precision VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-12-SJ-C	IA-12-SJ-C	A-12-SJ-C-201	IA-12-SJ-D	IA-12-SJ-D	IA-12-SJ-D	IA-12-SJ-D	IA-12-SJ-D
Sample Date:					1/17/2014	4/2/2014	3/7/2012	3/7/2012	10/24/2013	1/17/2014	4/2/2014	2/18/2015
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	0.13 U	0.026 U	0.026 U	0.026 U
Benzene	20	2	200	20	0.21	0.30	0.18 J	0.21	0.32 J	0.25	0.25	0.28
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.038 U	0.049 J	0.074 J	0.19 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.093 J	0.30 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	0.77	5.2	0.094 J	0.17 J	1.1	0.70	4.7	9.3
m&p-Xylenes	2000	200	20000	2000	2.5	12	0.29	0.51	3.3	2.3	11	24 J
Naphthalene	29	2.9	-	-	0.11 J	0.097 J	0.090 UJ	0.090 UJ	0.45 U	0.090 UJ	0.13 J	0.090 U
o-Xylene	2000	200	20000	2000	0.69	2.0	0.12 J	0.23	1.0	0.64	1.8	5.4
Tetrachloroethene	250	25	2500	250	0.36	0.39	0.41	0.67	0.37 J	0.36	0.35	0.24
Trichloroethene	20	2	200	20	0.25	0.15 J	1.6	3.1[c]	0.63 J	0.27	0.14 J	0.18 J
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.36 U	0.071 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary Of Building 12 - S+J Precision VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-12-SJ-D	OA-12	OA-12	OA-12-SJ	OA-12-SJ	OA-12-SJ	OA-12-SJ	SS-12-SJ-A
Sample Date:					7/13/2015	10/24/2013	1/17/2014	3/7/2012	4/2/2014	2/18/2015	7/13/2015	1/6/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 UJ	0.026 U	3.5 U
Benzene	20	2	200	20	0.22	0.12 J	0.23	0.056 U	0.33	0.29 J	0.14 J	1.8 U
Chloroform (Trichloromethane)	800	80	8000	800	0.065 J	0.038 U	0.038 U	0.038 U	0.11 J	0.038 UJ	0.038 U	8.8 J
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 UJ	0.060 U	26
Ethylbenzene	2500	250	25000	2500	2.9	0.20	0.068 U	0.068 U	0.17 J	0.098 J	0.068 U	2.2 U
m&p-Xylenes	2000	200	20000	2000	8.1	0.74	0.12 U	0.12 U	0.54	0.27 J	0.18 J	4.8 U
Naphthalene	29	2.9	-	-	0.39 J	0.090 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ	0.090 U	8.6 U
o-Xylene	2000	200	20000	2000	3.0	0.23	0.061 U	0.061 U	0.21	0.080 J	0.067 J	2.2 U
Tetrachloroethene	250	25	2500	250	0.45	0.040 U	0.040 U	0.040 U	0.040 U	0.040 UJ	0.058 J	5.8 J
Trichloroethene	20	2	200	20	0.64	0.041 J	0.054 U	0.036 U	0.036 U	0.036 UJ	0.44	1300[ab]
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 UJ	0.071 U	2.9 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary Of Building 12 - S+J Precision VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-12-SJ-A	SS-12-SJ-A	SS-12-SJ-A	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B
Sample Date:					1/6/2012	3/7/2012	3/7/2012	1/6/2012	3/7/2012	10/24/2013	10/24/2013	1/17/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels		Duplicate		Duplicate				Duplicate	
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	R	1.8 U	1.8 U	9.0 U	5.8 U	8.7 U	8.2 U	6.2 U
Benzene	20	2	200	20	R	3.9 U	4.0 U	4.6 U	12 U	19 U	18 U	13 U
Chloroform (Trichloromethane)	800	80	8000	800	R	9.5 J	9.7 J	25 J	32 J	37 J	38 J	38 J
cis-1,2-Dichloroethene	370	37	3700	370	R	23	24	570[a]	530[a]	470[a]	480[a]	390 J[a]
Ethylbenzene	2500	250	25000	2500	R	4.8 U	4.8 U	5.6 U	15 U	23 U	21 U	16 U
m&p-Xylenes	2000	200	20000	2000	R	8.4 U	8.5 U	12 U	27 U	40 U	38 U	29 U
Naphthalene	29	2.9	-	-	R	6.3 U	6.4 U	22 UJ	20 UJ	30 U	28 U	22 U
o-Xylene	2000	200	20000	2000	R	4.3 U	4.3 U	5.6 U	14 U	21 U	19 U	15 U
Tetrachloroethene	250	25	2500	250	R	6.9 J	7.0 J	9.2 J	10 J	13 U	14 J	14 J
Trichloroethene	20	2	200	20	R	1400[ab]	1400[ab]	5600[ab]	5600[ab]	6700[ab]	7000[ab]	6400[ab]
Vinyl chloride	20	2	200	20	R	5.0 U	5.0 U	7.4 U	16 U	24 U	22 U	17 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary Of Building 12 - S+J Precision VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-B	SS-12-SJ-C	SS-12-SJ-C
Sample Date:					1/17/2014	4/2/2014	4/2/2014	2/18/2015	2/18/2015	7/13/2015	1/6/2012	3/7/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels		Duplicate		Duplicate					
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	1.1 U	3.0 U	14 U	0.27 U	0.026 U	17 U	0.35 U	0.26 U
Benzene	20	2	200	20	2.4 U	6.5 U	29 U	0.52	0.43	38 U	0.18 U	0.56 U
Chloroform (Trichloromethane)	800	80	8000	800	19 J	10 J	36 J	19	14	46 J	0.79 J	0.70 J
cis-1,2-Dichloroethene	370	37	3700	370	210 J	120 J	410 J[a]	152	110	330	0.65 J	0.60 U
Ethylbenzene	2500	250	25000	2500	2.9 U	7.8 U	36 U	4.1	4.0	46 U	0.22 U	0.68 U
m&p-Xylenes	2000	200	20000	2000	5.1 U	14 U	63 U	11.7	11 J	81 U	0.48 U	1.2 U
Naphthalene	29	2.9	-	-	3.8 U	10 U	47 U	0.69 U	0.090 U	60 U	0.86 U	0.90 UJ
o-Xylene	2000	200	20000	2000	2.6 U	7.0 U	32 U	2.7	2.5	41 U	0.22 U	0.61 U
Tetrachloroethene	250	25	2500	250	7.3 J	4.6 U	21 U	9.8	8.1	27 U	28	23
Trichloroethene	20	2	200	20	5300[ab]	1600 J[ab]	6100 J[ab]	3300[ab]	2000[ab]	7700[ab]	230[ab]	180[a]
Vinyl chloride	20	2	200	20	3.0 U	8.2 U	37 U	0.14 U	0.071 U	48 U	0.29 U	0.71 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 5

Summary Of Building 12 - S+J Precision VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-C	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D	SS-12-SJ-D
Sample Date:					10/24/2013	1/17/2014	4/2/2014	1/6/2012	3/7/2012	10/24/2013	7/12/2015	7/12/2015 Duplicate
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.052 U	0.052 U	0.026 U	1.1 U	2.0 U	-	0.13 U	0.26 U
Benzene	20	2	200	20	0.12 J	0.15 J	0.14 J	0.54 U	4.2 U	-	0.28 U	0.56 U
Chloroform (Trichloromethane)	800	80	8000	800	0.16 J	0.076 U	0.071 J	24	23	-	0.69 J	0.63 J
cis-1,2-Dichloroethene	370	37	3700	370	0.18 J	0.12 U	0.060 U	240	200	-	24	21
Ethylbenzene	2500	250	25000	2500	0.14 U	0.23 J	0.068 U	0.66 U	5.2 U	-	0.34 U	0.68 U
m&p-Xylenes	2000	200	20000	2000	0.43	0.79	0.12 U	1.4 U	9.1 U	-	0.60 U	1.2 U
Naphthalene	29	2.9	-	-	0.18 U	0.18 U	0.090 U	2.6 U	6.8 U	-	0.45 U	0.90 U
o-Xylene	2000	200	20000	2000	0.14 J	0.27 J	0.061 U	0.66 U	4.6 U	-	0.31 U	0.61 U
Tetrachloroethene	250	25	2500	250	4.5	3.0	1.5	3.5 J	3.2 J	-	0.68 J	0.69 J
Trichloroethene	20	2	200	20	31[a]	17	9.5	1200[ab]	940[ab]	1500[ab]	110[a]	110[a]
Vinyl chloride	20	2	200	20	0.14 U	0.14 U	0.071 U	0.87 U	5.4 U	-	0.36 U	0.71 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 6

Summary of Historic Vacuum Readings
Overstreet Painting & S&J Precision
2015 & 2019 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Historic Sub-Slab Vacuum Readings[1,2]

Sub-Slab Location	1/7/2014	3/6/2014	2/18/2015	7/6/2015	Historic Average Vacuum Readings
SS-12-OP-A	-0.0428	-0.0243	-0.0217	-0.0588	-0.0369
SS-12-OP-B	-0.1104	-0.0757	-0.0857	-0.0136	-0.0714
SS-12-OP-C	-0.01872	-0.01253	-0.01272	-0.01502	-0.0147
SS-12-SJ-A	-0.01072	-0.01072	-0.0329	-0.0462	-0.0251
SS-12-SJ-B	-0.00731	-0.0437	-0.0667	-0.0665	-0.0461
SS-12-SJ-C	-0.0287	-0.0331	-0.0355	-0.0614	-0.0397
SS-12-SJ-D	-0.0535	-0.0575	-0.0601	-0.0705	-0.0604
SS-12-SJ-E	-0.0047	-0.00681	-0.00638	-0.0335	-0.0128
Extraction Point					
EP-1	-3.5	-2	-3	-3.75	-3.1
EP-2	-0.75	-1	-0.75	-1	-0.9
EP-3	-1.75	-1.75	-1.75	-1.75	-1.8

Notes :

-- Denotes no exceedances at sample location
nm - Denotes not monitored
N/A - Denotes the value is not applicable or can't be calculated
[1] - All vacuum readings are in units of inches of water column (in WC.)
[2] - All presented vacuum readings are after last system upgrade on 12/20/2013

Table 7

Summary Of Building 14 - Bullseye Amusements VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-14-A	IA-14-A	IA-14-A	IA-14-A	IA-14-B	IA-14-B	IA-14-B	IA-14-B
Sample Date:					3/27/2012	8/2/2012	1/16/2014	6/3/2014	3/27/2012	8/2/2012	1/16/2014	6/3/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.046 J	0.026 U	0.026 U	0.035 J	0.055 J	0.026 U	0.026 U
Benzene	20	2	200	20	0.58	2.4[c]	3.2[c]	0.54	0.67	2.1[c]	2.1[c]	0.43
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.15 J	0.038 U	0.038 U	0.038 U	0.18 J	0.038 U	0.073 J
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	0.21	1.2	1.8	0.59	0.32	0.95	1.6	0.64
m&p-Xylenes	2000	200	20000	2000	0.58	4.4	6.2	2.2	1.3	3.6	5.4	2.3
Naphthalene	29	2.9	-	-	0.090 U	0.37 J	0.090 UJ	0.26 J	0.20 J	0.34 J	0.13 J	0.090 U
o-Xylene	2000	200	20000	2000	0.19 J	1.7	2.2	0.94	0.48	1.4	1.9	0.98
Tetrachloroethene	250	25	2500	250	0.040 U	0.054 J	0.28	0.040 U	0.040 U	0.080 U	0.058 U	0.047 U
Trichloroethene	20	2	200	20	0.047 J	0.043 J	0.036 U	0.036 U	0.080 J	0.072 U	0.036 U	0.036 U
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary Of Building 14 - Bullseye Amusements VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-14-C	IA-14-C	IA-14-C	IA-14-C	IA-14-C	IA-14-C	IA-14-C	OA-14-2012
Sample Date:					3/27/2012	8/2/2012	1/16/2014	6/3/2014	2/19/2015	7/16/2015	7/16/2015 Duplicate	1/6/2012
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.052 U	0.026 U	0.026 U	0.27 U	0.026 U	0.026 U	0.035 U
Benzene	20	2	200	20	0.60	2.0	1.8	0.43	1	1.5	1.7	0.24
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.15 J	0.038 J	0.070 J	0.14 U	0.13 J	0.14 J	0.049 J
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.12 U	0.060 U	0.060 U	0.69 U	0.060 U	0.060 U	0.014 U
Ethylbenzene	2500	250	25000	2500	0.33	0.81	0.88	0.81	0.27 U	1.4	1.5	0.058 J
m&p-Xylenes	2000	200	20000	2000	1.3	3.1	2.9	3.0	0.59	5.7	6.2	0.15 J
Naphthalene	29	2.9	-	-	0.17 J	0.18 U	0.090 U	0.26 J	0.69 U	0.26 J	0.32 J	0.086 U
o-Xylene	2000	200	20000	2000	0.47	1.2	1.0	1.3	0.27 U	1.9	2.1	0.051 J
Tetrachloroethene	250	25	2500	250	0.040 U	0.080 U	0.047 U	0.057 U	0.14 U	0.040 U	0.040 U	0.023 J
Trichloroethene	20	2	200	20	0.036 J	0.079 J	0.036 U	0.036 U	0.14 U	0.036 U	0.036 U	0.030 U
Vinyl chloride	20	2	200	20	0.071 U	0.14 U	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U	0.029 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary Of Building 14 - Bullseye Amusements VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					OA-14-2012	OA-14-2012	OA-14-2012	OA-14-2014	OA-14-2014	OA-14-2014	SS-14-A	SS-14-A
Sample Date:					3/27/2012	8/2/2012	1/16/2014	6/3/2014	2/19/2015	7/16/2015	1/6/2012	1/6/2012 Duplicate
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 UJ	0.026 U	500[a]	320[a]
Benzene	20	2	200	20	0.15 J	0.22	0.17 J	0.073 J	0.23 J	0.46	1.9 J	1.8 J
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.038 U	0.038 U	0.038 U	0.038 UJ	0.038 U	0.62 U	0.74 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 UJ	0.060 U	2.6 J	1.5 J
Ethylbenzene	2500	250	25000	2500	0.068 U	0.075 J	0.068 U	0.068 U	0.068 UJ	0.080 J	0.44 U	0.52 U
m&p-Xylenes	2000	200	20000	2000	0.12 U	0.19 J	0.17 J	0.22	0.12 UJ	0.33	0.96 U	1.1 U
Naphthalene	29	2.9	-	-	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 UJ	0.090 U	1.7 U	2.0 U
o-Xylene	2000	200	20000	2000	0.061 U	0.062 J	0.061 U	0.065 J	0.061 UJ	0.10 J	0.44 U	0.52 U
Tetrachloroethene	250	25	2500	250	0.040 U	0.040 U	0.049 U	0.040 U	0.040 UJ	0.040 U	0.22 U	0.26 U
Trichloroethene	20	2	200	20	0.036 U	0.036 U	0.12 U	0.036 U	0.036 UJ	0.036 U	2.1 J	1.5 J
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.071 UJ	0.071 U	84[a]	70[a]

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary Of Building 14 - Bullseye Amusements VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A	SS-14-A
Sample Date:					3/28/2012	8/2/2012	1/16/2014	1/16/2014 Duplicate	6/3/2014	6/3/2014 Duplicate	2/19/2015	2/19/2015
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas a	Indoor Air c	Sub-Slab Soil Gas b	Indoor Air d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	970[a]	4100[ab]	270 J[a]	160 J	720[a]	650[a]	173[a]	85
Benzene	20	2	200	20	6.0 J	50[a]	0.44	0.42	2.3 U	0.95	2.7 U	0.10 J
Chloroform (Trichloromethane)	800	80	8000	800	1.3 U	7.7 U	5.4	5.5	140	140	3	4.2
cis-1,2-Dichloroethene	370	37	3700	370	6.9	110	3.2	3.2	21	20	13.4 U	3.2
Ethylbenzene	2500	250	25000	2500	2.4 U	14 U	0.14 J	0.14 U	2.8 U	0.41 J	5.3 U	0.33
m&p-Xylenes	2000	200	20000	2000	4.2 U	24 U	0.48	0.24 U	5.0 U	1.7	10.7 U	0.71
Naphthalene	29	2.9	-	-	3.1 U	18 UJ	0.18 U	0.18 U	3.7 U	0.82 J	13.4 U	0.13 J
o-Xylene	2000	200	20000	2000	2.2 J	12 U	0.20 J	0.12 U	2.5 U	0.66	5.3 U	2.1
Tetrachloroethene	250	25	2500	250	1.4 U	8.1 U	0.11 J	3.8 J	1.7 U	0.87	2.7 U	0.22
Trichloroethene	20	2	200	20	6.4 J	36 J[a]	4.0	3.6	27[a]	30[a]	4.6	6.4
Vinyl chloride	20	2	200	20	820 J[ab]	5500[ab]	4.9	4.5	17	14	2.7 U	0.28

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary Of Building 14 - Bullseye Amusements VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-14-A	SS-14-B	SS-14-B	SS-14-B	SS-14-C	SS-14-C	SS-14-C	SS-14-C
Sample Date:					7/16/2015	1/6/2012	3/27/2012	8/2/2012	1/6/2012	3/27/2012	8/2/2012	1/16/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	54	77	130	0.14 U	0.071 J	0.026 U	0.052 U
Benzene	20	2	200	20	1.4	0.14 U	0.077 J	0.11 U	0.072 U	0.056 U	0.056 U	1.3
Chloroform (Trichloromethane)	800	80	8000	800	0.20	0.93 J	1.1	3.0	0.12 U	0.043 J	0.097 J	0.076 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.43 J	0.97	2.2	0.056 U	0.060 U	0.060 U	0.12 U
Ethylbenzene	2500	250	25000	2500	0.91	1.2 J	0.068 U	0.14 U	0.088 U	0.068 U	0.068 U	0.38 J
m&p-Xylenes	2000	200	20000	2000	3.5	7.1	0.20	0.32 J	0.19 U	0.12 U	0.12 U	1.4
Naphthalene	29	2.9	-	-	0.16 J	0.69 UJ	0.090 U	0.18 U	0.34 U	0.090 U	0.090 UJ	0.43 J
o-Xylene	2000	200	20000	2000	1.2	3.9	0.084 J	0.15 J	0.088 U	0.061 U	0.061 U	0.69
Tetrachloroethene	250	25	2500	250	0.084 J	0.088 U	0.41	1.0	0.11 J	0.43	0.28	0.080 U
Trichloroethene	20	2	200	20	0.91	3.5	4.7	16	2.5	27[a]	1.2	0.077 U
Vinyl chloride	20	2	200	20	0.071 U	0.23 U	0.071 U	0.14 U	0.12 U	0.071 U	0.071 U	0.14 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 7

Summary Of Building 14 - Bullseye Amusements VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					**SS-14-C**
Sample Date:					**6/3/2014**
	ODH Non-Residential Screening Levels		**ODH Non-Residential Action Levels**		
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**	
	a	**c**	**b**	**d**	
Volatile Organic Compounds					
1,1-Dichloroethane	160	16	1600	160	0.074 U
Benzene	20	2	200	20	0.57
Chloroform (Trichloromethane)	800	80	8000	800	0.11 U
cis-1,2-Dichloroethene	370	37	3700	370	0.17 U
Ethylbenzene	2500	250	25000	2500	0.71
m&p-Xylenes	2000	200	20000	2000	2.6
Naphthalene	29	2.9	-	-	0.27 J
o-Xylene	2000	200	20000	2000	1.1
Tetrachloroethene	250	25	2500	250	0.11 U
Trichloroethene	20	2	200	20	0.10 U
Vinyl chloride	20	2	200	20	0.20 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 8

Summary of Historic Vacuum Readings
Bullseye Amusements
2003 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Historic Sub-Slab Vacuum Readings[1,2]

Sub-Slab Location	1/7/2015	1/24/2015	6/3/2015	2/19/2015	7/14/2015	Historic Average Vacuum Readings
SS-14-A	-0.00723	-0.006	-0.01023	-0.00387	-0.49	-0.1035
SS-14-B	-0.0279	-0.0237	nm	-0.01685	-0.0456	-0.0285
SS-14-C	-0.53	-0.575	nm	-0.561	-0.01274	-0.4197
SS-14-D	Damaged	Damaged	Damaged	Damaged	Damaged	Damaged
SS-14-E	-0.00376	0.0041	nm	-0.00258	-0.00136	-0.0009
Extraction Point						
EP-1	-1.25	-1.5	nm	-1.25	-1.25	-1.3
EP-2	-2.75	-2.75	nm	-2.75	-2.5	-2.7

Notes :

-- Denotes no exceedances at sample location
nm - Denotes not monitored
N/A - Denotes the value is not applicable or can't be calculated
[1] - All vacuum readings are in units of inches of water column (in WC.)
[2] - All presented vacuum readings are after last system upgrade on 12/20/2013
-0.0009 - Denotes vacuum not meeting requirement of -0.004 in WC.

Table 9

Summary Of Building 15 - Sim Trainer VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-A	IA-15-B	IA-15-C	IA-15-C
Sample Date:					3/13/2012	2/11/2014	4/24/2014	2/18/2015	7/14/2015	3/13/2012	3/13/2012	2/13/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.10 U	0.026 U
Benzene	20	2	200	20	0.46	0.29	0.23	0.23	0.16 J	0.51	0.51 J	0.63
Chloroform (Trichloromethane)	800	80	8000	800	0.077 J	0.038 U	0.050 J	0.038 U	0.079 J	0.038 U	0.15 U	0.038 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.24 U	0.060 U
Ethylbenzene	2500	250	25000	2500	0.15 J	0.13 J	0.15 J	0.068 U	0.11 J	0.12 J	0.43 J	0.39
m&p-Xylenes	2000	200	20000	2000	0.52	0.44	0.40	0.12 U	0.36	0.43	1.6	1.5
Naphthalene	29	2.9	-	-	0.25 J	0.090 U	0.090 U	0.090 U	0.13 J	0.090 U	0.36 U	0.090 U
o-Xylene	2000	200	20000	2000	0.21	0.17 J	0.20	0.061 U	0.15 J	0.17 J	0.62 J	0.46
Tetrachloroethene	250	25	2500	250	0.84	2.3	2.8	1.3	1.6	1.4	120[c]	3.9
Trichloroethene	20	2	200	20	5.2[c]	2.0	3.0[c]	1.4	1.7	0.13 J	1.6	0.59
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.28 U	0.071 U
Gases												
Methane	0.5	0.05	5	0.5	-	-	-	-	0.20 U	-	-	-
Radiology												
Radon-222	-	-	-	-	-	-	-	-	0.13 +/-0.05	-	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary Of Building 15 - Sim Trainer VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-15-C	IA-15-C	IA-15-C	IA-15-F	IA-15-F	IA-15-H	OA-15	OA-15
Sample Date:					2/18/2015	2/18/2015	7/14/2015	2/11/2014	4/24/2014	4/24/2014	3/13/2012	2/11/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	**Sub-Slab Soil Gas**	**Indoor Air**								
	a	**c**	**b**	**d**								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.24 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
Benzene	20	2	200	20	0.22	0.28	0.68	0.25	0.20	1.2	0.068 J	0.18 J
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.12 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.62 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	0.17 J	0.25 U	1.2	0.068 U	0.076 J	1.4	0.068 U	0.068 U
m&p-Xylenes	2000	200	20000	2000	0.62	0.72	5.4	0.22	0.27	5.3	0.12 U	0.19 J
Naphthalene	29	2.9	-	-	0.090 U	0.64 U	0.41 J	0.090 U	0.090 U	0.090 U	0.090 U	0.090 U
o-Xylene	2000	200	20000	2000	0.20	0.27	2.1	0.074 J	0.10 J	1.8	0.061 U	0.062 J
Tetrachloroethene	250	25	2500	250	0.59	0.94	6.3	0.45	0.053 J	2.9	0.040 U	0.040 U
Trichloroethene	20	2	200	20	0.20	0.37	1.2	0.076 J	0.036 U	0.75	0.036 U	0.036 U
Vinyl chloride	20	2	200	20	0.071 U	0.13 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
Gases												
Methane	0.5	0.05	5	0.5	-	-	0.22 U	-	-	-	-	-
Radiology												
Radon-222	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary Of Building 15 - Sim Trainer VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					OA-15	OA-15	OA-15	SS-15-A	SS-15-A	SS-15-A	SS-15-A	SS-15-A
Sample Date:					4/24/2014	2/18/2015	7/14/2015	1/12/2012	3/13/2012	2/11/2014	4/24/2014	2/18/2015
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.026 U	0.60 U	0.93 U	0.026 U	0.026 U	0.41
Benzene	20	2	200	20	0.16 J	0.18 J	0.15 J	0.31 U	2.0 U	0.31	0.11 J	0.23
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.038 U	0.038 U	0.53 U	1.4 U	0.038 U	0.045 J	0.038 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.060 U	2.7 J	2.1 U	0.10 J	0.060 U	0.060 U
Ethylbenzene	2500	250	25000	2500	0.073 J	0.068 U	0.080 J	0.38 U	2.4 U	0.22	0.068 U	0.47
m&p-Xylenes	2000	200	20000	2000	0.23	0.12 U	0.26	0.82 U	4.3 U	0.51	0.12 U	2.2
Naphthalene	29	2.9	-	-	0.090 U	0.090 U	0.090 UJ	1.5 U	3.2 U	0.090 U	0.090 U	0.55
o-Xylene	2000	200	20000	2000	0.088 J	0.061 U	0.086 J	0.38 U	2.2 U	0.44	0.061 U	0.79
Tetrachloroethene	250	25	2500	250	0.040 U	0.040 U	0.040 U	7.6	7.1	1.5	1.2	0.83
Trichloroethene	20	2	200	20	0.036 U	0.096 J	0.036 U	400[ab]	390[ab]	2.0	3.1	1.4
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.071 U	0.50 U	2.5 U	0.071 U	0.071 U	0.071 U
Gases												
Methane	0.5	0.05	5	0.5	-	-	0.21 U	-	-	-	-	-
Radiology												
Radon-222	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary Of Building 15 - Sim Trainer VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-15-A	SS-15-A	SS-15-B	SS-15-B	SS-15-C	SS-15-C	SS-15-C	SS-15-C
Sample Date:					7/14/2015	7/14/2015 Duplicate	1/12/2012	3/13/2012	1/12/2012	1/12/2012 Duplicate	3/13/2012	2/13/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas a	Indoor Air c	Sub-Slab Soil Gas b	Indoor Air d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	1.1 U	1.2 U	R	8.8 U	14 U	2.8 U
Benzene	20	2	200	20	0.12 J	0.12 J	0.55 U	2.6 U	R	230[ab]	320[ab]	36[a]
Chloroform (Trichloromethane)	800	80	8000	800	0.065 J	0.060 J	8.5	12	R	7.8 U	20 U	4.1 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	86	130	R	7400[ab]	10000[ab]	1700[a]
Ethylbenzene	2500	250	25000	2500	0.068 U	0.068 U	0.67 U	3.2 U	R	320	540	70
m&p-Xylenes	2000	200	20000	2000	0.19 J	0.18 J	1.5 U	5.6 U	R	820	1300	130
Naphthalene	29	2.9	-	-	0.097 J	0.090 UJ	2.6 U	4.2 U	R	22 U	47 U	9.7 U
o-Xylene	2000	200	20000	2000	0.070 J	0.061 U	0.67 U	2.9 U	R	710	1100	170
Tetrachloroethene	250	25	2500	250	2.4	2.4	1.3 J	2.5 J	R	2.8 U	21 U	4.3 U
Trichloroethene	20	2	200	20	2.0	2.0	690[ab]	680[ab]	R	95[a]	120[a]	25[a]
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.88 U	3.3 U	R	1100[ab]	1700[ab]	350[ab]
Gases												
Methane	0.5	0.05	5	0.5	0.22 U	0.21 U	-	-	-	-	-	-
Radiology												
Radon-222	-	-	-	-	3.5 +/-0.3	-	-	-	-	-	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 9

Summary Of Building 15 - Sim Trainer VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					SS-15-C	SS-15-C	SS-15-C	SS-15-C	SS-15-C
Sample Date:					4/24/2014	4/24/2014 Duplicate	2/18/2015	2/18/2015	7/14/2015
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels						
Parameters	Sub-Slab Soil Gas a	Indoor Air c	Sub-Slab Soil Gas b	Indoor Air d					
Volatile Organic Compounds									
1,1-Dichloroethane	160	16	1600	160	3.0 U	3.1 U	0.27 U	0.10 U	0.28 U
Benzene	20	2	200	20	60[a]	62[a]	8.4	5.9 J	2.5
Chloroform (Trichloromethane)	800	80	8000	800	4.4 U	4.6 U	0.13 U	0.15 U	0.71 J
cis-1,2-Dichloroethene	370	37	3700	370	2200[a]	2300[a]	125	130 J	780[a]
Ethylbenzene	2500	250	25000	2500	180	180	8.5	5.8 J	0.78 J
m&p-Xylenes	2000	200	20000	2000	410	410	6	4.0 J	1.3 U
Naphthalene	29	2.9	-	-	10 U	11 U	0.68 U	0.36 U	0.95 UJ
o-Xylene	2000	200	20000	2000	400	400	34	33 J	3.1
Tetrachloroethene	250	25	2500	250	4.6 U	4.8 U	3.2	2.5 J	28
Trichloroethene	20	2	200	20	61[a]	63[a]	16.4	12 J	87[a]
Vinyl chloride	20	2	200	20	99[a]	97[a]	0.13 U	6.6 J	26[a]
Gases									
Methane	0.5	0.05	5	0.5	-	-	-	-	0.21 U
Radiology									
Radon-222	-	-	-	-	-	-	-	-	-

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
R - Rejected.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 10

Summary of Historic Vacuum Readings
SIM Trainer
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Historic Sub-Slab Vacuum Readings[1,2]

Sub-Slab Location	3/27/2014	4/24/2014	6/3/2014	2/18/2015	7/13/2015	Historic Average Vacuum Readings
SS-15-A	-0.1881	-0.181	-0.1823	-0.0385	-0.1882	-0.1556
SS-15-B	-0.01899	-0.00877		-0.01068	-0.025	-0.0159
SS-15-C	-0.0122	-0.0338	-0.0398	-0.0234	-0.0422	-0.0303
SS-15-D	-0.0071	-0.00928	damaged	damaged	damaged	-0.0082
SS-15-E	-0.351	-0.345	-0.347	nm	-0.358	-0.3503
SS-15-F	-0.01941	-0.01876	-0.0253	-0.0205	nm	-0.0210
SS-15-G	-0.0955	-0.0958	-0.0871	-0.0953	-0.0929	-0.0933
SS-15-H	-0.00309	-0.00426	-0.00417	0.00011	-0.0031	-0.0029
Extraction Point						
EP-1	-4.5	nm	-4.5	nm	-4	-4.3
EP-2	-4	nm	-4.25	nm	-5	-4.4
EP-3	-4	nm	-4	nm	-4	-4.0

Notes :

-- Denotes no exceedances at sample location
nm - Denotes not monitored
N/A - Denotes the value is not applicable or can't be calculated
[1] - All vacuum readings are in units of inches of water column (in WC.)
[2] - All presented vacuum readings are after last system upgrade on 3/26/2014
-0.0029 - Denotes vacuum not meeting requirement of -0.004 in WC.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:					IA-24-A	IA-24-A	IA-24-A	IA-24-A	IA-24-A-2014	IA-24-B	IA-24-B	IA-24-B
Sample Date:					3/10/2012	8/11/2012	9/11/2013	2/7/2014	12/5/2014	9/11/2013	2/7/2014	12/5/2014
	ODH Non-Residential Screening Levels		ODH Non-Residential Action Levels									
Parameters	Sub-Slab Soil Gas	Indoor Air	Sub-Slab Soil Gas	Indoor Air								
	a	c	b	d								
Volatile Organic Compounds												
1,1-Dichloroethane	160	16	1600	160	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U	0.026 U	0.026 U	0.052 U
Benzene	20	2	200	20	0.23	0.22	0.45	0.29	0.37	0.056 U	0.28	0.67
Chloroform (Trichloromethane)	800	80	8000	800	0.038 U	0.038 U	0.076 U	0.038 U	0.038 U	0.038 U	0.038 U	0.076 U
cis-1,2-Dichloroethene	370	37	3700	370	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U
Ethylbenzene	2500	250	25000	2500	2.1	3.2	3.7	0.84	1.0	0.068 U	0.60	0.92
m&p-Xylenes	2000	200	20000	2000	8.4	11	14	2.8	3.4	0.12 U	1.9	3.5
Naphthalene	29	2.9	-	-	0.090 UJ	0.096 J	0.21 J	0.090 U	0.090 U	0.090 U	0.090 U	0.18 U
o-Xylene	2000	200	20000	2000	3.9	6.4	6.1	1.4	1.3	0.061 U	0.90	1.4
Tetrachloroethene	250	25	2500	250	0.23	0.22	0.083 J	0.13 J	0.18 J	0.040 U	0.13 J	41[c]
Trichloroethene	20	2	200	20	0.057 J	0.053 J	0.072 U	0.048 J	0.036 U	0.036 U	0.059 J	0.072 U
Vinyl chloride	20	2	200	20	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:			IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-B	IA-24-C	IA-24-C	IA-24-C	IA-24-C	IA-24-C	IA-24-C-2014
Sample Date:	ODH Non-Residential Screening Levels		2/20/2015	2/20/2015	2/20/2015 Duplicate	7/16/2015	7/16/2015 Duplicate	3/10/2012	3/10/2012 Duplicate	8/11/2012	9/11/2013	2/7/2014	12/5/2014
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**											
	a	**c**											
Volatile Organic Compounds													
1,1-Dichloroethane	160	16	0.026 U	0.29 U	0.026 U	0.027 U	0.026 U	0.026 U	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U
Benzene	20	2	0.48	0.52	0.46	0.11 J	0.12 J	0.24	0.25	0.37	0.33 J	0.27	0.35
Chloroform (Trichloromethane)	800	80	0.038 U	0.14 U	0.038 U	0.040 U	0.038 U	0.038 U	0.038 U	0.039 J	0.076 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	370	37	0.060 U	0.72 U	0.060 U	0.063 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U
Ethylbenzene	2500	250	0.39	0.43	0.37	0.29	0.33	2.2	1.8	2.9	2.9	0.50	0.60
m&p-Xylenes	2000	200	1.5	1.8	1.5	0.69	0.85	9.6	7.4	7.9	10	1.7	2.1
Naphthalene	29	2.9	0.090 U	0.71 U	0.090 U	0.094 U	0.090 U	0.090 UJ	0.090 UJ	0.13 J	0.35 J	0.090 U	0.090 U
o-Xylene	2000	200	0.61	0.72	0.59	0.29	0.35	4.5	3.6	3.7	3.8	0.75	0.81
Tetrachloroethene	250	25	0.14 J	0.16	0.13 J	0.042 U	0.040 U	0.28	0.30	0.44	0.080 U	0.12 J	0.11 J
Trichloroethene	20	2	0.061 J	0.14 U	0.062 J	0.038 U	0.036 U	0.071 J	0.070 J	0.12 J	0.072 U	0.064 J	0.036 U
Vinyl chloride	20	2	0.071 U	0.14 U	0.071 U	0.074 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:			**IA-24-D**	**IA-24-D**	**IA-24-D**	**IA-24-D**	**IA-24-D**	**IA-24-E**	**IA-24-F**	**IA-24-F**	**IA-24-F**	**IA-24-F**	**IA-24-F**
Sample Date:			**3/10/2012**	**8/11/2012**	**9/12/2013**	**2/7/2014**	**12/5/2014**	**12/5/2014**	**3/10/2012**	**8/11/2012**	**9/11/2013**	**2/7/2014**	**12/5/2014**
	ODH Non-Residential Screening Levels												
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**											
	a	**c**											
Volatile Organic Compounds													
1,1-Dichloroethane	160	16	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.13 U	0.026 U	0.026 U
Benzene	20	2	0.19 J	0.24	0.42	0.27	0.35	0.36	0.31	0.69	0.51 J	0.24	0.36
Chloroform (Trichloromethane)	800	80	0.038 U	0.079 J	0.078 J	0.038 U	0.095 J	0.042 J	0.038 U	0.041 J	0.19 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	370	37	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.30 U	0.060 U	0.060 U
Ethylbenzene	2500	250	0.63	1.4	0.99	0.45	0.50	0.52	1.4	2.4	0.82 J	0.35	0.63
m&p-Xylenes	2000	200	2.5	3.7	3.6	1.5	1.6	1.7	5.9	7.3	3.0	1.1	2.2
Naphthalene	29	2.9	0.090 UJ	0.090 UJ	0.13 J	0.090 U	0.12 J	0.095 J	0.090 UJ	0.15 J	0.45 U	0.090 U	0.090 U
o-Xylene	2000	200	1.1	1.7	1.8	0.66	0.64	0.68	2.7	3.1	1.2	0.45	0.87
Tetrachloroethene	250	25	0.11 J	0.24	0.049 J	0.092 J	0.095 J	0.11 J	0.17 J	0.23	0.20 U	0.049 J	0.080 J
Trichloroethene	20	2	0.15 J	0.37	0.11 J	0.085 J	0.14 J	0.036 U	0.15 J	0.065 J	0.18 U	0.036 U	0.036 U
Vinyl chloride	20	2	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.36 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:			IA-24-QCR	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24	OA-24-2015	OA-24-EP6	SS-24-A
Sample Date:			12/5/2014	1/7/2012	3/10/2012	8/11/2012	8/11/2012 Duplicate	9/11/2013	2/7/2014	12/5/2014	2/20/2015	7/16/2015	1/7/2012
	ODH Non-Residential Screening Levels												
Parameters	Sub-Slab Soil Gas a	Indoor Air c											
Volatile Organic Compounds													
1,1-Dichloroethane	160	16	0.026 U	0.035 U	0.026 U	0.026 U	0.026 U	0.027 U	0.026 U	0.026 U	0.026 UJ	0.026 U	0.18 U
Benzene	20	2	0.31	0.16 J	0.14 J	0.071 J	0.065 J	0.38	0.25	0.36	0.42 J	0.13 J	0.090 U
Chloroform (Trichloromethane)	800	80	0.17 J	0.031 U	0.038 U	0.038 U	0.038 U	0.039 U	0.038 U	0.038 U	0.038 UJ	0.038 U	0.16 U
cis-1,2-Dichloroethene	370	37	0.060 U	0.014 U	0.060 U	0.060 U	0.060 U	0.062 U	0.060 U	0.060 U	0.060 UJ	0.060 U	0.57 J
Ethylbenzene	2500	250	0.55	0.027 J	0.068 U	0.068 U	0.068 U	0.24	0.070 J	0.14 J	0.11 J	0.068 U	0.11 U
m&p-Xylenes	2000	200	1.9	0.059 J	0.12 U	0.12 U	0.20	0.95	0.22	0.43	0.34 J	0.19 J	0.24 U
Naphthalene	29	2.9	0.090 U	0.086 U	0.090 UJ	0.090 UJ	0.10 J	0.10 J	0.090 U	0.090 U	0.095 J	0.090 U	0.43 U
o-Xylene	2000	200	0.75	0.022 U	0.061 U	0.061 U	0.061 U	0.35	0.084 J	0.16 J	0.13 J	0.074 J	0.11 U
Tetrachloroethene	250	25	0.092 J	0.011 U	0.060 J	0.040 U	0.040 U	0.041 U	0.040 U	0.077 J	0.040 UJ	0.040 U	25
Trichloroethene	20	2	0.036 U	0.030 U	0.036 U	0.036 U	0.036 U	0.037 U	0.036 U	0.036 U	0.036 UJ	0.036 U	8.2
Vinyl chloride	20	2	0.071 U	0.029 U	0.071 U	0.071 U	0.071 U	0.073 U	0.071 U	0.071 U	0.071 UJ	0.071 U	0.15 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:			SS-24-A	SS-24-A	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B	SS-24-B
Sample Date:	ODH Non-Residential Screening Levels		3/10/2012	8/11/2012	1/7/2012	3/10/2012	8/11/2012	9/11/2013	9/11/2013 Duplicate	12/5/2014	12/5/2014 Duplicate	2/20/2015	2/20/2015
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**											
	a	**c**											
Volatile Organic Compounds													
1,1-Dichloroethane	160	16	0.052 U	0.026 U	0.12 U	0.026 U	0.026 U	0.052 U	0.052 U	0.10 U	0.10 U	0.58 U	0.026 U
Benzene	20	2	0.11 U	0.099 J	0.063 U	0.056 U	0.056 U	0.11 U	0.11 U	0.22 U	0.22 U	0.29 U	0.087 J
Chloroform (Trichloromethane)	800	80	0.076 U	0.090 J	0.11 U	0.070 J	0.075 J	0.076 U	0.076 U	0.15 U	0.15 U	0.28 U	0.038 U
cis-1,2-Dichloroethene	370	37	0.53	0.85	0.049 U	0.093 J	0.060 U	0.12 U	0.12 U	0.24 U	0.24 U	1.4 U	0.060 U
Ethylbenzene	2500	250	0.14 U	0.68	0.24 J	0.068 U	0.068 U	0.14 U	0.14 U	0.27 U	0.27 U	0.57 U	0.18 J
m&p-Xylenes	2000	200	0.24 U	2.5	0.41 J	0.12 U	0.18 J	0.24 U	0.24 U	0.48 U	0.48 U	1.2 U	0.83 J
Naphthalene	29	2.9	0.18 UJ	0.090 UJ	0.87 J	0.090 UJ	0.090 UJ	0.18 U	0.18 U	0.36 U	0.36 U	1.4 U	0.32 J
o-Xylene	2000	200	0.12 U	1.4	0.16 J	0.061 U	0.12 J	0.12 U	0.12 U	0.24 U	0.24 U	1.4 U	0.33
Tetrachloroethene	250	25	30	39	90	73	130	25	29	59	49	78.3	57
Trichloroethene	20	2	7.7	10	37[a]	30[a]	48[a]	6.5	7.1	22[a]	21[a]	33.7[a]	23[a]
Vinyl chloride	20	2	0.14 U	0.071 U	0.10 U	0.071 U	0.071 U	0.14 U	0.14 U	0.28 U	0.28 U	0.29 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:			**SS-24-B**	**SS-24-C**	**SS-24-C**	**SS-24-C**	**SS-24-C**	**SS-24-C**	**SS-24-D**	**SS-24-D**	**SS-24-D**
Sample Date:			**7/16/2015**	**1/7/2012**	**1/7/2012**	**3/10/2012**	**8/11/2012**	**2/7/2014**	**1/7/2012**	**3/10/2012**	**8/11/2012**
	ODH Non-Residential Screening Levels				**Duplicate**						
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**									
	a	**c**									
Volatile Organic Compounds											
1,1-Dichloroethane	160	16	0.052 U	0.035 U	0.035 U	0.026 U	0.026 U	0.026 U	0.35 U	0.026 U	0.026 U
Benzene	20	2	0.11 U	0.022 J	0.049 J	0.056 U	0.056 U	0.20	0.18 U	0.056 U	0.056 U
Chloroform (Trichloromethane)	800	80	0.076 U	0.031 U	0.031 U	0.038 U	0.038 U	0.039 J	0.31 U	0.038 U	0.038 U
cis-1,2-Dichloroethene	370	37	0.12 U	0.014 U	0.014 U	0.060 U	0.060 U	0.060 U	0.14 U	0.060 U	0.060 U
Ethylbenzene	2500	250	0.14 U	0.022 U	0.16 J	0.068 U	0.068 U	0.068 U	0.45 J	0.068 U	0.068 U
m&p-Xylenes	2000	200	0.24 U	0.062 J	0.39 J	0.12 U	0.22	0.13 J	1.6 J	0.34	0.17 J
Naphthalene	29	2.9	0.18 U	0.086 UJ	0.086 UJ	0.090 UJ	0.090 UJ	0.090 U	0.86 U	0.090 UJ	0.090 UJ
o-Xylene	2000	200	0.12 U	0.022 U	0.11 J	0.061 U	0.11 J	0.061 U	0.53 J	0.11 J	0.077 J
Tetrachloroethene	250	25	34	15	15	15	12	13	4.1	4.7	8.5
Trichloroethene	20	2	9.8	0.99	1.1	0.87	0.63	1.1	0.30 U	0.036 U	0.036 U
Vinyl chloride	20	2	0.14 U	0.029 U	0.029 U	0.071 U	0.071 U	0.071 U	0.29 U	0.071 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:			**SS-24-E**	**SS-24-E**	**SS-24-E**	**SS-24-F**	**SS-24-F**
Sample Date:			**1/7/2012**	**3/10/2012**	**8/11/2012**	**1/7/2012**	**3/10/2012**
	ODH Non-Residential Screening Levels						
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**					
	a	**c**					
Volatile Organic Compounds							
1,1-Dichloroethane	160	16	0.070 U	0.026 U	0.026 U	0.035 U	0.026 U
Benzene	20	2	0.036 U	0.056 U	0.16 J	0.019 J	0.056 U
Chloroform (Trichloromethane)	800	80	0.062 U	0.038 U	0.038 U	0.031 U	0.038 U
cis-1,2-Dichloroethene	370	37	0.028 U	0.060 U	0.086 J	0.014 U	0.065 J
Ethylbenzene	2500	250	0.044 U	0.068 U	1.4	0.034 J	0.073 J
m&p-Xylenes	2000	200	0.096 U	0.12 U	4.1	0.069 J	0.24
Naphthalene	29	2.9	0.17 U	0.090 UJ	0.090 UJ	0.086 U	0.090 UJ
o-Xylene	2000	200	0.044 U	0.061 U	1.1	0.022 U	0.18 J
Tetrachloroethene	250	25	5.4	7.3	14	0.73	0.63
Trichloroethene	20	2	0.060 U	0.036 U	1.2	0.11 J	0.036 U
Vinyl chloride	20	2	0.058 U	0.071 U	0.071 U	0.029 U	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 11

Summary Of Building 24 - Globe Equipment VI Analytical Results
South Dayton Dump And Landfill Site
Moraine, Ohio
2012-2015

Sample Location:			**SS-24-F**
Sample Date:			**8/11/2012**
	ODH Non-Residential Screening Levels		
Parameters	**Sub-Slab Soil Gas**	**Indoor Air**	
	a	**c**	
Volatile Organic Compounds			
1,1-Dichloroethane	160	16	0.026 U
Benzene	20	2	0.060 J
Chloroform (Trichloromethane)	800	80	0.038 U
cis-1,2-Dichloroethene	370	37	0.060 U
Ethylbenzene	2500	250	0.068 U
m&p-Xylenes	2000	200	0.12 U
Naphthalene	29	2.9	0.090 UJ
o-Xylene	2000	200	0.061 U
Tetrachloroethene	250	25	2.0
Trichloroethene	20	2	0.10 J
Vinyl chloride	20	2	0.071 U

Notes:

All units are in parts per billion by volume (ppbv)
J - Estimated concentration.
U - Not detected at the associated reporting limit.
UJ - Not detected; associated reporting limit is estimated.
- - Not applicable.

Table 12

Summary of Historic Vacuum Readings
Globe Equipment
2215 East River Road
South Dayton Dump and Landfill Site
Moraine, Ohio

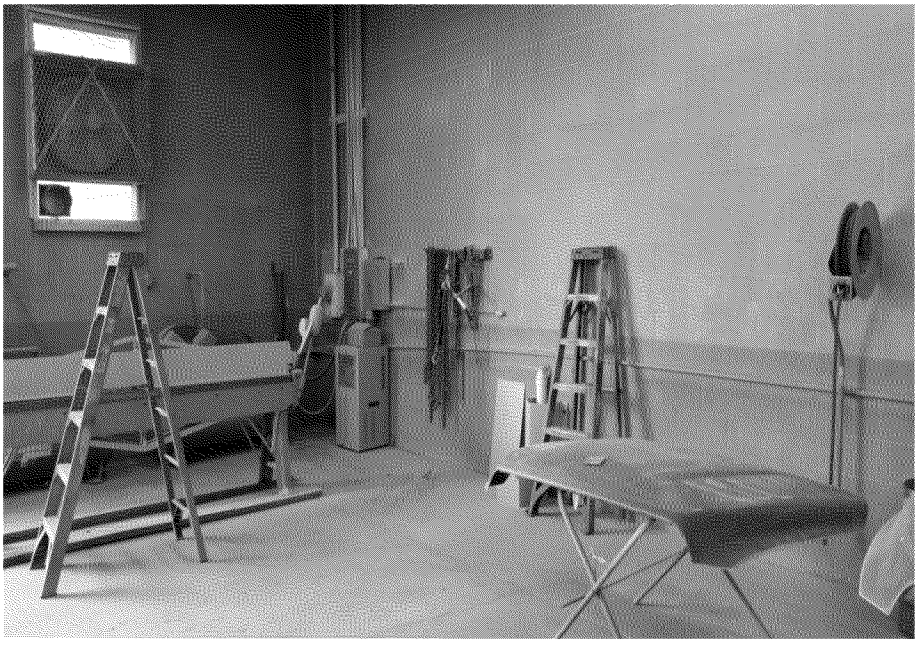
Historic Sub-Slab Vacuum Readings[1,2]

Sub-Slab Location	8/21/2014	12/4/2014	2/20/2015	7/13/2015	Historic Average Vacuum Readings
SS-24-A		-0.0841	nm	-0.104	-0.0941
SS-24-B	-0.00092	-0.00068	0.00109	-0.00017	-0.0002
SS-24-C	-0.00007	-0.00052	nm	-0.0001	-0.0002
SS-24-D	-0.00448	-0.00498	0.00962	-0.00767	-0.0019
SS-24-E	-0.0383	-0.0167	-0.00874	-0.036	-0.0249
SS-24-F	-0.0356	-0.0279	-0.0185	-0.0445	-0.0316
SS-24-G	-0.00123	-0.00245	0.00694	-0.00301	0.0001
SS-24-H	-0.0042	-0.00854	0.01468	-0.00877	-0.0017
SS-24-I	nm	nm	nm	nm	nm
SS-24-J	-0.00202	-0.00757	0.01304	-0.0028	0.0002
SS-24-K	-0.00067	-0.00805	0.0235	0.01133	0.0065
SS-24-L	nm	-0.00115	nm	-0.00023	-0.0007
SS-24-M	nm	-0.00048	0.00293	0.00108	0.0012
SS-24-N	-0.0345	-0.0354	-0.0211	-0.0349	-0.0315
SS-24-O	nm	nm	nm	nm	nm
SS-24-P	-0.00085	nm	nm	0.0057	0.0024
SS-24-Q	nm	-0.00345	0.01107	-0.0049	0.0009
SS-24-R	nm	-0.0201	0.01267	-0.0372	-0.0149
Extraction Point					
EP-1	-3.75	nm	-3.75	-3.5	-3.7
EP-2	-0.75	-0.5	-0.5	-0.75	-0.6
EP-3	-2	-3.25	-1.25	-1.5	-2.0
EP-4	-4	-2.72	nm	-2.75	-3.2
EP-5	-4	-4	-4	-3.75	-3.9
EP-6	-2.25	-2	-2	-2.25	-2.1
EP-7	-3.75	-4	-4	-3.75	-3.9
EP-8	-3.75	nm	-3.5	-3.25	-3.5

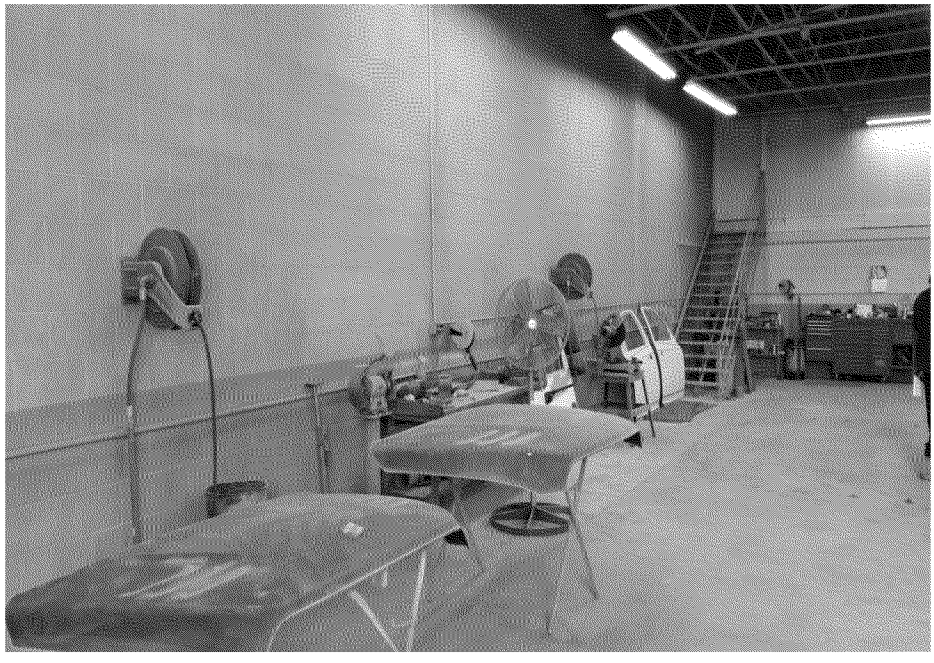
Notes :

-- Denotes no exceedances at sample location
nm - Denotes not monitored
N/A - Denotes the value is not applicable or can't be calculated
[1] - All vacuum readings are in units of inches of water column (in WC.)
[2] - All presented vacuum readings are after last system upgrade on 7/24/2013
-0.0002 - Denotes vacuum not meeting requirement of -0.004 in WC.

Attachment A



Description: EP-2 location. View-North
Date: 7/15/2015
Photographer: Doug Gatrell



Description: June proposed EP-2 stemline location. View-South
Date: 7/15/2015
Photographer: Doug Gatrell

B&G Trucking Building 9
1951 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Description: June proposed location of EP-3. View-Northwest
Date: 7/15/2015
Photographer: Doug Gatrell

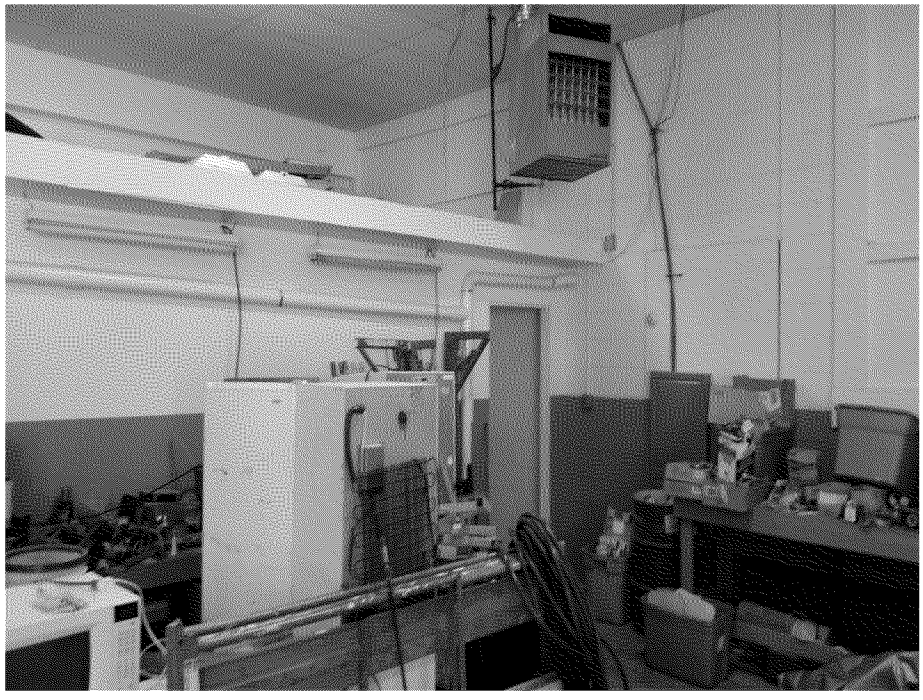
Description: June proposed EP-3 stemline location. View-West

B&G Trucking Building 9
1951 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Date: 7/15/2015
Photographer: Doug Gatrell

Description: June proposed EP-3 stemline suction point location. View-Southwest
Date: 7/15/2015
Photographer: Doug Gatrell

B&G Trucking Building 9
1951 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio



Description: EP-1 suction point and stemline. View-Southeast
Date: 7/15/2015
Photographer: Doug Gatrell

Description: South wall. View-South

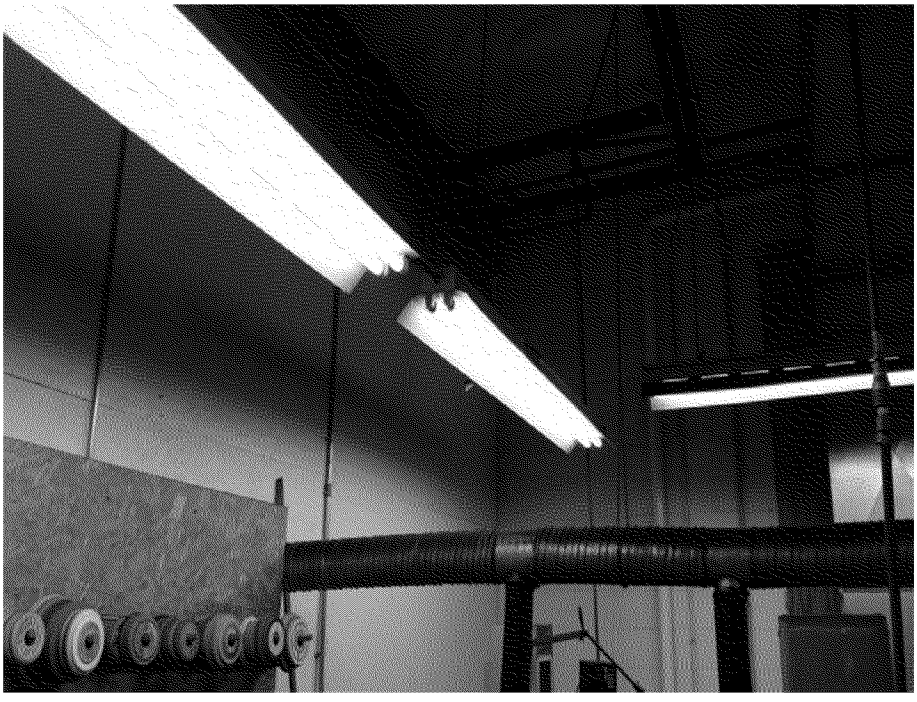
Overstreet Painting Building 12
2019 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Date: 7/15/2015
Photographer: Doug Gatrell

Description: North wall. Floor drain runs under vehicles. View-Northeast
Date: 7/15/2015
Photographer: Doug Gatrell

Description: North wall. View-Northwest
Date: 7/15/2015
Photographer: Doug Gatrell

Overstreet Painting Building 12
2019 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio



Description: EP-3 suction point. View-North
Date: 7/15/2015
Photographer: Doug Gatrell

Description: Chemical products at S&J by proposed EP-3 stemline. View-West
Date: 7/15/2015

S&J Precision Building 12
2015 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Photographer: Doug Gatrell

Description: Proposed EP-3 stemline location. View-North
Date: 7/15/2015
Photographer: Doug Gatrell

Description: Far back west wall with collection of electrical boxes. View-West
Date: 7/15/2015
Photographer: Doug Gatrell

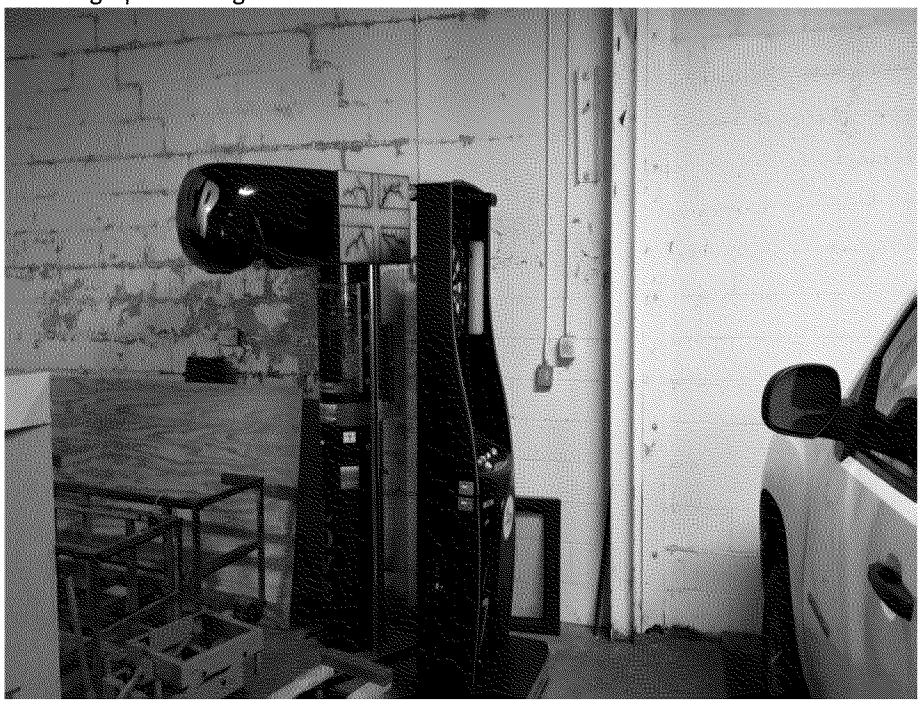
Description: HVAC unit on opposite side of wall where EP-3 stemline is proposed. View-North
Date: 7/15/2015
Photographer: Doug Gatrell

Description: Front of Bullseye with EP-2. Treeline is located on the west perimeter. View-South
Date: 7/15/2015
Photographer: Doug Gatrell

Description: June proposed EP-3 location where SS-14-D is abandoned where water ponds. View-NA

Bullseye Amusements Building 14
2003 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

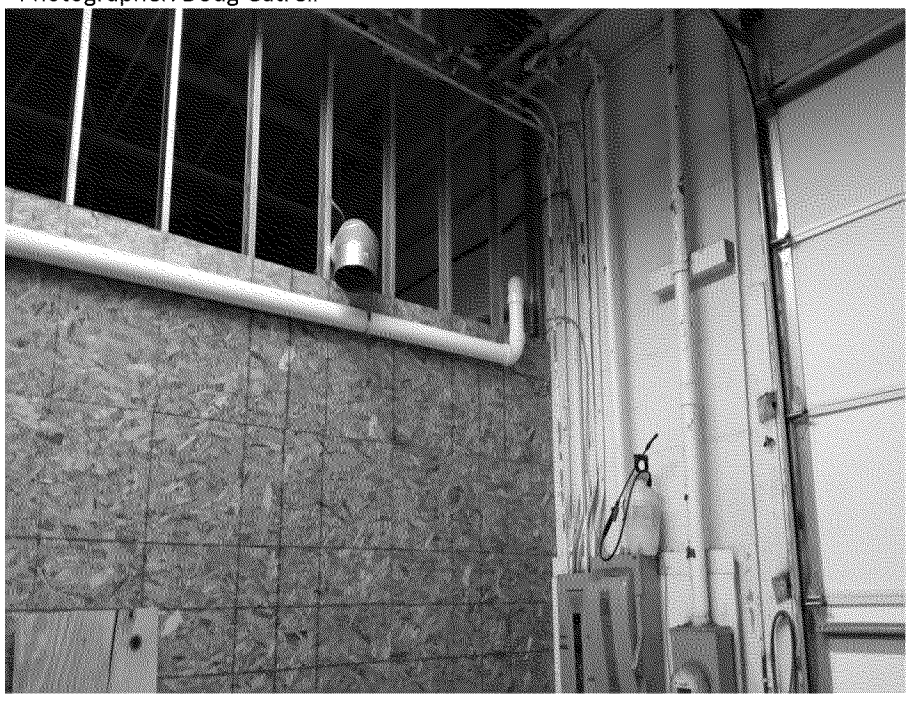
Date: 7/15/2015
Photographer: Doug Gatrell



Description: June proposed EP-3 stemline suction point on west wall. View-West
Date: 7/15/2015
Photographer: Doug Gatrell

Bullseye Amusements Building 14
2003 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Description: June proposed EP-3 stemline location. View-Southwest
Date: 7/15/2015
Photographer: Doug Gatrell



Description: EP-1 stemline. View-Northeast
Date: 7/15/2015
Photographer: Doug Gatrell

Bullseye Amusements Building 14
2003 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Description: 7/15 proposed EP-2 suction and stemline location. View-Southeast
Date: 7/15/2015
Photographer: Doug Gatrell

Description: Outside of Bullseye looking at the exterior of the east wall. View-Southwest
Date: 7/15/2015

Bullseye Amusements Building 14
2003 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Photographer: Doug Gatrell

Bullseye Amusements Building 14
2003 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Description: EP-1 location. View-West
Date: 7/15/2015
Photographer: Doug Gatrell

Description: EP-2 location. View-West
Date: 7/15/2015

Photographer: Doug Gatrell

Description: Southwest wall. View-Southwest
Date: 7/15/2015
Photographer: Doug Gatrell

SIM Trainer Building 15
2031 Dryden Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Description: South wall. View-South
Date: 7/15/2015
Photographer: Doug Gatrell

Description: EP-3 suction point location. View-North
Date: 7/15/2015
Photographer: Doug Gatrell

Description: Location of SS-24-P. View-West
Date: 7/15/2015
Photographer: Doug Gatrell

Description: Location of EP-3. View-South

Globe Equipment Building 24
2215 East River Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Date: 7/15/2015
Photographer: Doug Gatrell

Description: EP-8. View-Southwest
Date: 7/15/2015
Photographer: Doug Gatrell

Globe Equipment Building 24
2215 East River Road
South Dayton Dump and Landfill Site
Moraine, Ohio

Description: June proposed EP-8 stemline location. View-Southwest
Date: 7/15/2015
Photographer: Doug Gatrell

Description: June proposed EP-8 stemline and suction point location. View-South
Date: 7/15/2015
Photographer: Doug Gatrell

Globe Equipment Building 24
2215 East River Road
South Dayton Dump and Landfill Site
Moraine, Ohio