TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3207, Bldg 23, Probe A*	*Parcel 3207, Bldg 23, Probe A*	*Parcel 3207, Bldg 23, Probe A*	*Parcel 3207, Bldg 23, Probe B*	*Parcel 3207, Bldg 23, Probe B*	*Parcel 3207, Bldg 23, Probe B*	*Parcel 3207, Bldg 23, Probe C*	*Parcel 3207, Bldg 23, Probe C*	*Parcel 3207, Bldg 23, Probe C*	*Parcel 3207, Bldg 23, Probe C*	*Parcel 3207, Bldg 23, Probe D*	*Parcel 3207, Bldg 23, Probe D*	*Parcel 3207, Bldg 23, Probe D*
Sample Location:					*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*
Owner / Tenant:					*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*
Sample ID:					*SS-38443-010712-JC-032*	*SS-38443-031012-JC-132*	*SS-38443-081112-GL-072*	*SS-38443-010712-JC-034*	*SS-38443-031012-JC-135*	*SS-38443-081112-GL-073*	*SS-38443-010712-JC-033*	*SS-38443-031012-JC-136*	*SS-38443-081112-GL-074*	*SS-38443-081112-GL-075*	*SS-38443-010712-JC-030*	*SS-38443-010712-JC-029*	*SS-38443-031012-JC-138*
Sample Date:					*1/7/2012*	*3/10/2012*	*8/11/2012*	*1/7/2012*	*3/10/2012*	*8/11/2012*	*1/7/2012*	*3/10/2012*	*8/11/2012*	*8/11/2012*	*1/7/2012*	*1/7/2012*	*3/10/2012*
														Duplicate		*Duplicate*	
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*														
Volatile Organic Compounds																	
1,1,1-Trichloroethane	ppb	NC	NC		0.39	0.37	2.9	0.18 U	0.037 J	0.074 J	0.29 J	0.33	0.39 J	0.41	0.10 U	0.10 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC		0.040 U	0.061 U	0.12 U	0.20 U	0.061 U	0.061 U	0.12 U	0.061 U	0.12 U	0.12 U	0.12 U	0.12 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC		0.019 U	0.054 U	0.11 U	0.095 U	0.054 U	0.054 U	0.057 U	0.054 U	0.11 U	0.11 U	0.057 U	0.057 U	0.054 U
1,1-Dichloroethane	ppb	160	1600		0.035 U	0.026 U	0.060 J	0.18 U	0.026 U	0.026 U	0.10 U	0.026 U	0.052 U	0.052 U	0.10 U	0.10 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC		0.030 U	0.032 U	0.081 J	0.15 U	0.032 U	0.032 U	0.090 U	0.032 U	0.064 U	0.064 U	0.090 U	0.090 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC		0.050 U	0.098 UJ	0.20 UJ	0.25 U	0.098 UJ	0.098 UJ	0.15 U	0.098 UJ	0.20 UJ	0.20 UJ	0.15 U	0.15 U	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC		4.4	3.3	8.9	0.26 U	0.063 U	0.063 U	0.60	0.063 U	1.2	1.3	0.16 U	0.16 U	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC		0.018 U	0.044 U	0.088 U	0.090 U	0.044 U	0.044 U	0.054 U	0.044 U	0.088 U	0.088 U	0.054 U	0.054 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC		0.048 U	0.070 U	0.14 U	0.24 U	0.070 U	0.070 U	0.14 U	0.070 U	0.14 U	0.14 U	0.14 U	0.14 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC		0.031 U	0.047 U	0.19 J	0.16 U	0.047 U	0.047 U	0.093 U	0.054 J	0.094 U	0.094 U	0.093 U	0.093 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC		0.061 J	-	-	0.070 U	-	-	0.042 U	-	-	-	0.042 U	0.042 U	-
1,2-Dichloropropane	ppb	NC	NC		0.014 U	0.052 U	0.10 U	0.070 U	0.052 U	0.052 U	0.042 U	0.052 U	0.10 U	0.10 U	0.042 U	0.042 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC		0.032 U	0.032 U	0.064 U	0.16 U	0.032 U	0.032 U	0.096 U	0.032 U	0.064 U	0.064 U	0.096 U	0.096 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC		5.2	7.0	17	0.26 U	0.065 U	0.065 U	1.7	0.17 J	2.9	2.6	0.15 U	0.15 U	0.065 U
1,3-Butadiene	ppb	NC	NC		0.010 U	0.064 U	0.13 U	0.050 U	0.064 U	0.064 U	0.030 U	0.064 U	0.13 U	0.13 U	0.030 U	0.030 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC		0.044 U	0.065 U	0.13 U	0.22 U	0.065 U	0.065 U	0.13 U	0.065 U	0.13 U	0.13 U	0.13 U	0.13 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC		0.44	0.064 U	0.13 U	0.22 U	0.064 U	0.064 U	0.13 U	0.064 U	0.13 U	0.13 U	0.13 U	0.13 U	0.064 U
1,4-Dioxane	ppb	NC	NC		0.088 U	0.080 U	0.21 J	0.44 U	0.080 UJ	0.080 U	0.47 J	0.27 J	0.16 U	0.16 U	0.26 U	0.26 U	0.080 J
2,2,4-Trimethylpentane	ppb	NC	NC		0.48	0.32 J	1.6	0.18 U	0.039 U	0.039 U	1.6	1.1	1.8	2.0	0.11 U	0.11 U	0.039 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC		3.1	1.0	0.67 J	0.085 U	0.33 J	0.25 J	1.2 J	0.53 J	0.76 J	0.70 J	0.55 J	0.84 J	0.62 J
2-Chlorotoluene	ppb	NC	NC		0.047 U	0.063 U	0.13 U	0.24 U	0.063 U	0.063 U	0.14 U	0.063 U	0.13 U	0.13 U	0.14 U	0.14 U	0.063 U
2-Hexanone	ppb	NC	NC		0.039 U	0.13 J	0.12 U	0.20 U	0.058 UJ	0.058 U	0.12 U	0.058 U	0.12 U	0.12 U	0.12 U	0.12 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC		0.29	0.23 J	0.76 J	0.24 U	0.064 U	0.064 U	0.63	0.064 U	0.35 J	0.33 J	0.14 U	0.14 U	0.064 U
4-Ethyl toluene	ppb	NC	NC		1.4	1.4	4.0	0.23 U	0.066 U	0.066 U	0.95	0.11 J	0.95	0.91	0.14 U	0.14 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC		0.026 U	0.045 U	0.090 U	0.13 U	0.045 UJ	0.045 U	0.078 U	0.045 U	0.090 U	0.090 U	0.078 U	0.078 U	0.071 J
Acetaldehyde	ppb	110	NC		-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC		23	13	17	8.1 J	5.5	5.0	13 J	7.8	13	12	21	18	14
Allyl chloride	ppb	NC	NC		0.019 U	0.048 U	0.096 U	0.095 U	0.048 U	0.048 U	0.057 U	0.048 U	0.096 U	0.096 U	0.057 U	0.057 U	0.048 U
Benzene	ppb	20	200		2.3	1.9	8.9	0.090 U	0.056 U	0.056 U	3.9	3.1	4.8	5.1	0.054 U	0.054 U	0.066 J
Benzyl chloride	ppb	NC	NC		0.046 UJ	0.078 U	0.16 U	0.23 U	0.078 U	0.078 U	0.14 U	0.078 U	0.16 U	0.16 U	0.14 UJ	0.14 UJ	0.078 U
Bromodichloromethane	ppb	NC	NC		0.028 U	0.044 U	0.088 U	0.14 U	0.044 U	0.044 U	0.084 U	0.044 U	0.088 U	0.088 U	0.084 U	0.084 U	0.044 U
Bromoform	ppb	NC	NC		0.019 U	0.048 U	0.096 U	0.095 U	0.048 U	0.048 U	0.057 U	0.048 U	0.096 U	0.096 U	0.057 U	0.057 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC		0.012 U	0.032 U	0.064 U	0.060 U	0.032 U	0.032 U	0.036 U	0.032 U	0.064 U	0.064 U	0.036 U	0.036 U	0.032 U
Butane	ppb	NC	NC		26	15	92	0.055 U	0.19 J	0.082 J	29	21	38	44	12	9.3	7.6
Carbon disulfide	ppb	NC	NC		8.9	0.068 J	0.25 J	0.33 U	0.031 U	0.031 U	0.71 J	0.12 J	0.22 J	0.45 J	1.0 J	0.66 J	0.54
Carbon tetrachloride	ppb	NC	NC		0.058 J	0.058 J	0.078 J	0.17 U	0.041 J	0.060 J	0.099 U	0.038 U	0.076 U	0.076 U	0.099 U	0.099 U	0.068 J
Chlorobenzene	ppb	NC	NC		0.020 U	0.049 U	0.35 J	0.10 U	0.049 U	0.049 U	0.060 U	0.049 U	0.14 J	0.15 J	0.060 U	0.060 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC		0.034 U	0.55	1.6	1.7 J	1.5	9.4	0.76 J	1.1	7.6	7.9	0.10 U	0.10 U	0.71
Chloroethane	ppb	NC	NC		0.25 J	0.19 J	0.58	0.080 U	0.035 U	0.035 U	0.048 U	0.064 J	0.086 J	0.088 J	0.074 J	0.048 U	0.13 J
Chloroform (Trichloromethane)	ppb	800	8000		0.031 U	0.039 J	0.16 J	0.16 U	0.038 U	0.038 U	0.093 U	0.048 J	0.10 J	0.11 J	0.093 U	0.093 U	0.058 J
Chloromethane (Methyl chloride)	ppb	NC	NC		0.24 J	0.16 U	0.32 U	0.065 U	0.16 U	0.16 U	0.039 U	0.16 U	0.32 U	0.32 U	0.20 J	0.039 U	0.16 U
cis-1,2-Dichloroethene	ppb	370	3700		0.061 J	0.060 U	0.14 J	0.070 U	0.060 U	0.060 U	0.042 U	0.060 U	0.12 U	0.12 U	0.042 U	0.042 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC		0.016 U	0.074 U	0.15 U	0.080 U	0.074 U	0.074 U	0.048 U	0.074 U	0.15 U	0.15 U	0.048 U	0.048 U	0.074 U
Cyclohexane	ppb	NC	NC		2.2	2.1	11	0.20 U	0.040 U	0.040 U	3.9	3.3	5.8	6.7	0.12 U	0.12 U	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC		1.3	0.23	0.92	0.24 U	0.057 U	0.057 U	1.1	0.10 J	0.67	0.59	0.14 U	0.14 U	0.057 U
Dibromochloromethane	ppb	NC	NC		0.021 U	0.042 U	0.084 U	0.11 U	0.042 U	0.042 U	0.063 U	0.042 U	0.084 U	0.084 U	0.063 U	0.063 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC		0.72	0.48	0.73	0.54 J	0.38	0.54	1.0 J	0.97	0.58	0.62	0.58 J	0.46 J	0.45
Ethylbenzene	ppb	2500	25000		1.3	0.84	3.0	0.11 U	0.068 U	0.068 U	1.4	0.93	1.6	1.6	0.066 U	0.066 U	0.068 U
Hexachlorobutadiene	ppb	NC	NC		0.065 U	0.078 U	0.16 UJ	0.33 U	0.078 UJ	0.078 U	0.19 U	0.078 U	0.16 UJ	0.16 UJ	0.19 U	0.19 U	0.078 U
Hexane	ppb	NC	NC		2.7	1.8	8.1	0.13 U	0.045 J	0.051 J	5.8	3.3	5.3	5.8	0.12 J	0.27 J	0.12 J
Isopropyl alcohol	ppb	NC	NC		2.7 J	9.7	0.088 U	0.19 U	1.8 J	0.23 J	0.11 U	4.7	0.71 J	0.67 J	1.5 J	0.11 U	3.1
Isopropyl benzene	ppb	NC	NC		4.1	3.5	13	0.16 U	0.060 U	0.060 U	0.73	0.22 J	0.63 J	0.59 J	0.093 U	0.093 U	0.060 U
m&p-Xylenes	ppb	2000	20000		4.6	3.6	14	0.24 U	0.12 U	0.12 U	3.9	1.2	6.0	5.9	0.14 U	0.14 U	0.12 U
Methyl methacrylate	ppb	NC	NC		0.76	0.079 U	0.16 U	0.065 U	0.079 U	0.079 U	1.3 J	0.079 U	0.16 U	0.16 U	0.039 U	0.039 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC		0.016 U	0.17 U	0.34 U	0.080 U	0.17 U	0.17 U	0.048 U	0.17 U	0.34 U	0.34 U	0.048 U	0.048 U	0.17 U
Methylene chloride	ppb	NC	NC		0.18 U	0.26 J	0.090 U	0.45 U	0.37 J	0.045 U	0.32 U	0.59	0.090 U	0.090 U	0.19 U	0.19 J	0.24 J
Naphthalene	ppb	29	NC		2.6 J	0.26 J	0.18 UJ	0.43 U	0.090 UJ	0.090 UJ	0.29 J	0.090 UJ	0.18 UJ	0.18 UJ	0.26 UJ	0.26 UJ	0.090 UJ
N-Butylbenzene	ppb	NC	NC		0.055 U	0.92	2.2	0.28 U	0.046 U	0.046 U	0.16 U	0.046 U	0.59 J	0.50 J	0.16 U	0.16 U	0.046 U
N-Decane	ppb	NC	NC		-	-	1.5 J	-	-	0.056 UJ	-	-	0.35 J	0.92 J	-	-	-
N-Dodecane	ppb	NC	NC		-	-	0.30 J	-	-	0.17 J	-	-	0.17 J	0.16 J	-	-	-
N-Heptane	ppb	NC	NC		1.7	0.81	1.9	0.050 U	0.047 U	0.047 U	2.6	1.5	1.1	1.3	0.030 U	0.18 J	0.047 U
Nonane	ppb	NC	NC		-	-	2.0	-	-	0.043 U	-	-	0.43 J	0.47 J	-	-	-
N-Propylbenzene	ppb	NC	NC		0.35	0.23 J	0.83	0.25 U	0.056 U	0.056 U	0.61	0.056 U	0.31 J	0.30 J	0.15 U	0.15 U	0.056 U
N-Undecane	ppb	NC	NC		-	-	0.12 U	-	-	0.062 U	-	-	0.12 U	0.12 U	-	-	-
o-Xylene	ppb	2000	20000		4.8	4.2	16	0.11 U	0.061 U	0.061 U	4.1	0.73	6.8	6.5	0.066 U	0.066 U	0.061 U
Pentane	ppb	NC	NC		-	-	32	-	-	0.21 J	-	-	22	23	-	-	-
Styrene	ppb	NC	NC		0.030 U	0.058 U	0.12 U	0.15 U	0.058 U	0.058 U	0.090 U	0.058 U	0.12 U	0.12 U	0.090 U	0.090 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC		5.9	4.1	9.8	0.36 U	0.22 J	0.057 J	6.2 J	7.0	11	11	0.21 U	0.21 U	2.1
tert-Butylbenzene	ppb	NC	NC		0.047 U	0.35 J	0.13 U	0.24 U	0.066 U	0.066 U	0.14 U	0.066 U	0.13 U	0.13 U	0.14 U	0.14 U	0.066 U

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250		2500		Tetrachloroethene	ppb	250		2500	3.0	3.0	6.6	1.3	1.1	2.8	3.8	3.3	4.5	5.0
Tetrahydrofuran	ppb		NC		NC	Tetrahydrofuran	ppb		NC		NC	1.3 J	1.4	0.16 J	0.090 U	0.063 U	0.063 U	0.68 J	2.5	0.48 J	0.53 J
Toluene	ppb		NC		NC	Toluene	ppb		NC		NC	5.3	4.8	18	0.090 U	0.14 J	0.087 J	9.8	8.5	11	12
trans-1,2-Dichloroethene	ppb		NC		NC	trans-1,2-Dichloroethene	ppb		NC		NC	0.032 U	0.050 U	0.10 U	0.16 U	0.050 U	0.050 U	0.096 U	0.050 U	0.10 U	0.10 U
trans-1,3-Dichloropropene	ppb		NC		NC	trans-1,3-Dichloropropene	ppb		NC		NC	0.020 U	0.048 U	0.096 U	0.10 U	0.048 U	0.048 U	0.060 U	0.048 U	0.096 U	0.096 U
Trichloroethene	ppb	20		200		Trichloroethene	ppb	20		200	1.0	0.81	2.8	0.15 U	0.051 J	0.41	0.98	0.90	1.2	1.4
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.48	0.44	1.7	0.33 J	0.31	0.46	1.3	1.3	0.71	0.79
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.082 J	0.074 J	0.12 J	0.050 U	0.063 J	0.085 J	0.11 J	0.15 J	0.082 J	0.095 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	Vinyl bromide (Bromoethene)	ppb		NC		NC	0.019 U	0.035 U	0.070 U	0.095 U	0.035 U	0.035 U	0.057 U	0.035 U	0.070 U	0.070 U
Vinyl chloride	ppb	20		200		Vinyl chloride	ppb	20		200	0.029 U	0.071 U	0.14 U	0.15 U	0.071 U	0.071 U	0.087 U	0.071 U	0.14 U	0.14 U
Xylenes (total)	ppb		NC		NC	Xylenes (total)	ppb		NC		NC	9.4	-	-	0.11 U	-	-	8.0	-	-	-
Gases						***Gases***															
Methane	%	0.5		0.5		Methane	%	0.5		0.5	-	-	0.18 U	-	-	0.20 U	-	-	0.19 U	0.19 U
Field Parameter						***Field Parameter***															
Methane, field (unfiltered)	%	0.5		0.5		Methane, field (unfiltered)	%	0.5		0.5	0.0 / 0.0	-	-	0.0 / 0.0	-	-	0.0 / 0.0	-	-	-
Methane, field (filtered)	%	0.5		0.5		Methane, field (filtered)	%	0.5		0.5	-	0.0 / 0	0 / 0	-	0.0 / 0.0	0 / 0	-	0.0 / 0.0	0 / 0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
- Concentration was greater than applicable criteria.

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EPA-R5-2016-005983 Outlook0000971

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MORAINE, OHIO

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3207, Bldg 23, Probe D*	*Parcel 3207, Bldg 23, Probe D*	*Parcel 3207, Bldg 23, Probe D*	*Parcel 3207, Bldg 23, Probe D*	*Parcel 3207, Bldg 23, Probe E*	*Parcel 3207, Bldg 23, Probe E*	*Parcel 3207, Bldg 23, Probe E*	*Parcel 3207, Bldg 24, Probe A*	*Parcel 3207, Bldg 24, Probe A*	*Parcel 3207, Bldg 24, Probe A*	*Parcel 3207, Bldg 24, Probe A*	*Parcel 3207, Bldg 24, Probe B*	*Parcel 3207, Bldg 24, Probe B*
Sample Location:				*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*
Owner / Tenant:				*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*
Sample ID:				*SS-38443-010712-JC-030*	*SS-38443-010712-JC-029*	*SS-38443-031012-JC-138*	*SS-38443-081112-GL-076*	*SS-38443-010712-JC-031*	*SS-38443-031012-JC-139*	*SS-38443-081112-GL-077*	*SS-38443-010712-JC-035*	*SS-38443-031012-JC-141*	*SS-38443-031012-JC-142*	*SS-38443-081112-GL-083*	*SS-38443-010712-JC-041*	*SS-38443-031012-JC-143*
Sample Date:				*1/7/2012*	*1/7/2012*	*3/10/2012*	*8/11/2012*	*1/7/2012*	*3/10/2012*	*8/11/2012*	*1/7/2012*	*3/10/2012*	*3/10/2012*	*8/11/2012*	*1/7/2012*	*3/10/2012*
					Duplicate											
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	0.10 U	0.10 U	0.030 U	0.17 J	0.10 U	0.054 J	0.080 J	0.18 U	0.28 J	-	0.26	3.6	3.3
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.12 U	0.12 U	0.061 U	0.12 U	0.12 U	0.061 U	0.061 U	0.20 U	0.12 U	-	0.061 U	0.14 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.057 U	0.057 U	0.054 U	0.11 U	0.057 U	0.054 U	0.054 U	0.095 U	0.11 U	-	0.054 U	0.067 U	0.054 U
1,1-Dichloroethane	ppb	160	1600	0.10 U	0.10 U	0.026 U	0.052 U	0.10 U	0.026 U	0.026 U	0.18 U	0.052 U	-	0.026 U	0.12 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.090 U	0.090 U	0.032 U	0.064 U	0.090 U	0.032 U	0.032 U	0.15 U	0.064 U	-	0.032 U	0.11 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.15 U	0.15 U	0.098 UJ	0.20 UJ	0.15 U	0.098 UJ	0.098 UJ	0.25 U	0.20 UJ	-	0.098 UJ	0.18 U	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.16 U	0.16 U	0.063 U	0.13 U	0.16 U	0.063 U	0.11 J	0.26 U	0.13 U	-	0.32	0.30 J	0.13 J
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.054 U	0.054 U	0.044 U	0.088 U	0.054 U	0.044 U	0.044 U	0.090 U	0.088 U	-	0.044 U	0.063 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.14 U	0.14 U	0.070 U	0.14 U	0.14 U	0.070 U	0.070 U	0.24 U	0.14 U	-	0.070 U	0.17 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.093 U	0.093 U	0.047 U	0.094 U	0.093 U	0.047 U	0.047 U	0.16 U	0.094 U	-	0.047 U	0.11 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	0.042 U	0.042 U	-	-	0.042 U	-	-	0.91 J	-	-	-	0.049 U	-
1,2-Dichloropropane	ppb	NC	NC	0.042 U	0.042 U	0.052 U	0.10 U	0.042 U	0.052 U	0.052 U	0.070 U	0.10 U	-	0.052 U	0.049 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.096 U	0.096 U	0.032 U	0.064 U	0.096 U	0.032 U	0.032 U	0.21 J	0.090 J	-	0.032 U	0.11 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.15 U	0.15 U	0.065 U	0.13 U	0.15 U	0.065 U	0.065 U	0.26 U	0.13 U	-	0.065 U	0.18 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.030 U	0.030 U	0.064 U	0.13 U	0.030 U	0.064 U	0.064 U	0.050 U	0.13 U	-	0.064 U	0.035 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.13 U	0.13 U	0.065 U	0.13 U	0.13 U	0.065 U	0.065 U	0.22 U	0.13 U	-	0.065 U	0.15 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.13 U	0.13 U	0.064 U	0.13 U	0.13 U	0.064 U	0.064 U	0.22 U	0.13 U	-	0.064 U	0.21 J	0.064 U
1,4-Dioxane	ppb	NC	NC	0.26 U	0.26 U	0.080 J	0.17 J	0.26 U	0.080 U	0.080 U	0.44 U	0.16 UJ	-	0.080 U	0.31 U	0.080 UJ
2,2,4-Trimethylpentane	ppb	NC	NC	0.11 U	0.11 U	0.039 U	0.078 U	0.11 U	0.039 U	0.039 U	0.18 U	0.078 U	-	0.039 U	0.13 U	0.039 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.55 J	0.64 J	0.62 J	0.85 J	0.42 J	0.20 U	0.88 J	0.085 U	0.40 U	-	1.0	7.0	0.27 J
2-Chlorotoluene	ppb	NC	NC	0.14 U	0.14 U	0.063 U	0.13 U	0.14 U	0.063 U	0.063 U	0.24 U	0.13 U	-	0.063 U	0.16 U	0.063 U
2-Hexanone	ppb	NC	NC	0.12 U	0.12 U	0.058 U	0.12 U	0.12 U	0.058 U	0.058 U	0.20 U	0.12 UJ	-	0.058 U	0.14 U	0.058 UJ
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.14 U	0.14 U	0.064 U	0.13 U	0.14 U	0.064 U	0.064 U	0.24 U	0.13 U	-	0.064 U	0.16 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.14 U	0.14 U	0.066 U	0.13 U	0.14 U	0.066 U	0.066 U	0.23 U	0.13 U	-	0.066 U	0.16 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.078 U	0.078 U	0.071 J	0.090 U	0.078 U	0.045 U	0.045 U	0.13 U	0.090 UJ	-	2.6	0.25 J	0.045 UJ
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	21	18	14	17	9.9 J	4.5 J	11	2.6 J	3.9 J	-	13	11 J	2.0 J
Allyl chloride	ppb	NC	NC	0.057 U	0.057 U	0.048 U	0.096 U	0.057 U	0.048 U	0.048 U	0.095 U	0.096 U	-	0.048 U	0.067 U	0.048 U
Benzene	ppb	20	200	0.054 U	0.054 U	0.066 J	0.18 J	0.054 U	0.056 U	0.066 J	0.090 U	0.11 U	-	0.099 J	0.063 U	0.056 U
Benzyl chloride	ppb	NC	NC	0.14 UJ	0.14 UJ	0.078 U	0.16 U	0.14 UJ	0.078 U	0.078 U	0.23 UJ	0.16 U	-	0.078 U	0.16 UJ	0.078 U
Bromodichloromethane	ppb	NC	NC	0.084 U	0.084 U	0.044 U	0.088 U	0.084 U	0.044 U	0.044 U	0.14 U	0.088 U	-	0.044 U	0.098 U	0.044 U
Bromoform	ppb	NC	NC	0.057 U	0.057 U	0.048 U	0.096 U	0.057 U	0.048 U	0.048 U	0.095 U	0.096 U	-	0.048 U	0.067 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.036 U	0.036 U	0.032 U	0.064 U	0.036 U	0.032 U	0.032 U	0.060 U	0.064 U	-	0.032 U	0.042 U	0.032 U
Butane	ppb	NC	NC	12	9.3	7.6	13	0.49 J	2.3	0.53	0.055 U	0.99	-	0.70	0.29 J	0.47
Carbon disulfide	ppb	NC	NC	1.0 J	0.66 J	0.54	0.84 J	0.28 J	0.031 U	0.22 J	1.6 J	0.23 J	-	0.22 J	11	0.18 J
Carbon tetrachloride	ppb	NC	NC	0.099 U	0.099 U	0.068 J	0.076 U	0.099 U	0.060 J	0.065 J	0.17 U	0.076 U	-	0.038 U	0.12 J	0.13 J
Chlorobenzene	ppb	NC	NC	0.060 U	0.060 U	0.049 U	0.098 U	0.060 U	0.049 U	0.049 U	0.10 U	0.098 U	-	0.049 U	0.070 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.10 U	0.10 U	0.71	6.5	0.10 U	1.1	8.9	0.17 U	0.57	-	0.99	0.12 U	0.44
Chloroethane	ppb	NC	NC	0.074 J	0.048 U	0.13 J	0.13 J	0.048 U	0.035 U	0.035 U	0.080 U	0.070 U	-	0.035 U	0.056 U	0.035 U
Chloroform (Trichloromethane)	ppb	800	8000	0.093 U	0.093 U	0.058 J	0.076 U	0.093 U	0.038 U	0.051 J	0.16 U	0.076 U	-	0.090 J	0.11 U	0.070 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.20 J	0.039 U	0.16 U	0.32 U	0.44 J	0.16 U	0.45 J	0.065 U	0.32 U	-	0.27 J	0.30 J	0.16 U
cis-1,2-Dichloroethene	ppb	370	3700	0.042 U	0.042 U	0.060 U	0.12 U	0.042 U	0.060 U	0.067 J	0.57 J	0.53	-	0.85	0.049 U	0.093 J
cis-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.048 U	0.074 U	0.15 U	0.048 U	0.074 U	0.074 U	0.080 U	0.15 U	-	0.074 U	0.056 U	0.074 U
Cyclohexane	ppb	NC	NC	0.12 U	0.12 U	0.040 U	0.20 J	0.12 U	0.040 U	0.19 J	0.20 U	0.080 U	-	0.24 J	0.14 J	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.14 U	0.14 U	0.057 U	0.11 U	0.14 U	0.057 U	0.057 U	0.24 U	0.11 U	-	0.057 U	1.0	0.057 U
Dibromochloromethane	ppb	NC	NC	0.063 U	0.063 U	0.042 U	0.084 U	0.063 U	0.042 U	0.042 U	0.11 U	0.084 U	-	0.042 U	0.074 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.58 J	0.46 J	0.45	0.60	0.64 J	0.51	0.50	2.3 J	0.97	-	0.95	0.61 J	0.35
Ethylbenzene	ppb	2500	25000	0.066 U	0.066 U	0.068 U	0.14 U	0.066 U	0.068 U	0.096 J	0.11 U	0.14 U	-	0.68	0.24 J	0.068 U
Hexachlorobutadiene	ppb	NC	NC	0.19 U	0.19 U	0.078 U	0.16 UJ	0.19 U	0.078 U	0.078 UJ	0.33 U	0.16 UJ	-	0.078 UJ	0.23 U	0.078 UJ
Hexane	ppb	NC	NC	0.12 J	0.27 J	0.12 J	0.78 J	0.12 J	0.11 J	0.30 J	0.13 U	0.079 J	-	0.14 J	0.15 J	0.072 J
Isopropyl alcohol	ppb	NC	NC	1.5 J	0.11 U	3.1	1.2 J	1.4 J	1.7 J	0.29 J	0.19 U	0.60 J	-	0.34 J	4.4 J	0.33 J
Isopropyl benzene	ppb	NC	NC	0.093 U	0.093 U	0.060 U	0.12 U	0.093 U	0.060 U	0.060 U	0.16 U	0.12 U	-	0.060 U	0.11 U	0.060 U
m&p-Xylenes	ppb	2000	20000	0.14 U	0.14 U	0.12 U	0.24 U	0.14 U	0.12 U	0.25	0.24 U	0.24 U	-	2.5	0.41 J	0.12 U
Methyl methacrylate	ppb	NC	NC	0.039 U	0.039 U	0.079 U	0.16 U	0.039 U	0.079 U	0.079 U	0.065 U	0.16 U	-	0.079 U	0.046 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.048 U	0.048 U	0.17 U	0.34 U	0.048 U	0.17 U	0.17 U	0.080 U	0.34 U	-	0.17 U	0.056 U	0.17 U
Methylene chloride	ppb	NC	NC	0.19 U	0.19 J	0.24 J	11	0.31 U	0.44 J	2.1	0.065 U	0.64 J	-	0.045 U	0.24 U	0.32 J
Naphthalene	ppb	29	NC	0.26 UJ	0.26 UJ	0.090 UJ	0.18 UJ	0.26 UJ	0.090 UJ	0.090 UJ	0.43 U	0.18 UJ	-	0.090 UJ	0.87 J	0.090 UJ
N-Butylbenzene	ppb	NC	NC	0.16 U	0.16 U	0.046 U	0.092 U	0.16 U	0.046 U	0.046 U	0.28 U	0.092 U	-	0.046 U	0.19 U	0.046 U
N-Decane	ppb	NC	NC	-	-	-	0.11 J	-	-	0.18 J	-	0.11 U	-	0.14 J	-	-
N-Dodecane	ppb	NC	NC	-	-	-	0.23 J	-	-	0.16 J	-	0.16 UJ	-	0.14 J	-	-
N-Heptane	ppb	NC	NC	0.030 U	0.18 J	0.047 U	0.094 U	0.030 U	0.047 U	0.14 J	0.050 U	0.094 U	-	0.18 J	0.24 J	0.047 U
Nonane	ppb	NC	NC	-	-	-	0.086 U	-	-	0.10 J	-	0.086 U	-	0.055 J	-	-
N-Propylbenzene	ppb	NC	NC	0.15 U	0.15 U	0.056 U	0.11 U	0.15 U	0.056 U	0.056 U	0.25 U	0.11 U	-	0.056 U	0.18 U	0.056 U
N-Undecane	ppb	NC	NC	-	-	-	0.12 J	-	-	0.16 J	-	0.12 UJ	-	0.19 J	-	-
o-Xylene	ppb	2000	20000	0.066 U	0.066 U	0.061 U	0.12 U	0.066 U	0.061 U	0.090 J	0.11 U	0.12 U	-	1.4	0.16 J	0.061 U
Pentane	ppb	NC	NC	-	-	-	3.3	-	-	0.78 J	-	0.12 U	-	0.42 J	-	-
Styrene	ppb	NC	NC	0.090 U	0.090 U	0.058 U	0.12 J	0.090 U	0.058 U	0.058 U	0.15 U	0.12 U	-	0.78	0.11 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC	0.21 U	0.21 U	2.1	1.0 J	0.21 U	0.12 J	0.038 UJ	0.36 U	0.12 J	-	0.038 UJ	0.25 U	0.12 J
tert-Butylbenzene	ppb	NC	NC	0.14 U	0.14 U	0.066 U	0.13 U	0.14 U	0.066 U	0.066 U	0.24 U	0.13 U	-	0.066 U	0.16 U	0.066 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	1.5	1.9	1.3	3.3	0.85	1.4	1.5	25	30	-	39	90	73
Tetrahydrofuran	ppb	NC	NC	0.054 U	0.054 U	0.12 J	0.13 U	0.054 U	0.063 U	0.11 J	0.090 U	0.13 U	-	0.063 U	0.28 J	0.063 U
Toluene	ppb	NC	NC	0.38 J	0.25 J	0.17 J	0.94	0.18 J	0.17 J	0.67	0.16 J	0.19 J	-	1.9	0.55 J	0.14 J
trans-1,2-Dichloroethene	ppb	NC	NC	0.096 U	0.096 U	0.050 U	0.10 U	0.096 U	0.050 U	0.050 U	0.34 J	0.27 J	-	0.37	0.11 U	0.050 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.060 U	0.060 U	0.048 U	0.096 U	0.060 U	0.048 U	0.048 U	0.10 U	0.096 U	-	0.048 U	0.070 U	0.048 U
Trichloroethene	ppb	20	200	0.49 J	0.48 J	0.36	0.98	0.37 J	0.40	1.2	8.2	7.7	-	10	37[a]	30[a]
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.28 J	0.25 J	0.28	0.95	0.29 J	0.37	0.51	3.0	2.5	-	4.3	0.39 J	0.35
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.068 J	0.065 J	0.064 J	0.091 J	0.072 J	0.074 J	0.075 J	0.050 U	0.11 J	-	0.15 J	0.11 J	0.090 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.057 U	0.057 U	0.035 U	0.070 U	0.057 U	0.035 U	0.035 U	0.095 U	0.070 U	-	0.035 U	0.067 U	0.035 U
Vinyl chloride	ppb	20	200	0.087 U	0.087 U	0.071 U	0.14 U	0.087 U	0.071 U	0.071 U	0.15 U	0.14 U	-	0.071 U	0.10 U	0.071 U
Xylenes (total)	ppb	NC	NC	0.066 U	0.066 U	-	-	0.066 U	-	-	0.11 U	-	-	-	0.57 J	-
Gases																
Methane	%	0.5	0.5	0.064 U	-	-	0.18 U	-	-	0.35 U	0.066 U	-	0.18 U	0.21 U	-	-
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	0.0 / 0.0	-	-	0.0 / 0.0	-	-	0.0 / 0.0	-	-	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.5	0.5	-	-	0.0 / 0.0	0 / 0	-	0.0 / 0.0	0 / 0	-	0 / 0.0	0.0 / 0	0 / 0	-	0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 3207, Bldg 24, Probe B*	*Parcel 3207, Bldg 24, Probe B*	*Parcel 3207, Bldg 24, Probe C*	*Parcel 3207, Bldg 24, Probe C*	*Parcel 3207, Bldg 24, Probe C*	*Parcel 3207, Bldg 24, Probe C*	*Parcel 3207, Bldg 24, Probe C*	*Parcel 3207, Bldg 24, Probe D*	*Parcel 3207, Bldg 24, Probe D*	*Parcel 3207, Bldg 24, Probe D*	*Parcel 3207, Bldg 24, Probe E*	*Parcel 3207, Bldg 24, Probe E*	*Parcel 3207, Bldg 24, Probe E*
Sample Location:					*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*
Owner / Tenant:					*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*
Sample ID:					*SS-38443-031012-JC-153*	*SS-38443-081112-GL-085*	*SS-38443-010712-JC-039*	*SS-38443-010712-JC-040*	*SS-38443-031012-JC-146*	*SS-38443-031012-JC-147*	*SS-38443-081112-GL-086*	*SS-38443-010712-JC-038*	*SS-38443-031012-JC-149*	*SS-38443-081112-GL-088*	*SS-38443-010712-JC-036*	*SS-38443-031012-JC-150*	*SS-38443-081112-GL-090*
Sample Date:					*3/10/2012*	*8/11/2012*	*1/7/2012*	*1/7/2012*	*3/10/2012*	*3/10/2012*	*8/11/2012*	*1/7/2012*	*3/10/2012*	*8/11/2012*	*1/7/2012*	*3/10/2012*	*8/11/2012*
								Duplicate									
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*														
Volatile Organic Compounds																	
1,1,1-Trichloroethane	ppb	NC	NC	-	4.8	1.4	1.4	1.1	-	0.73	1.4 J	1.5	2.2	0.77	0.74	1.6
1,1,2,2-Tetrachloroethane	ppb	NC	NC	-	0.061 U	0.040 U	0.040 U	0.061 U	-	0.061 U	0.40 U	0.061 U	0.061 U	0.080 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	-	0.054 U	0.019 U	0.019 U	0.054 U	-	0.054 U	0.19 U	0.054 U	0.054 U	0.038 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	160	1600	-	0.026 U	0.035 U	0.035 U	0.026 U	-	0.026 U	0.35 U	0.026 U	0.026 U	0.070 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	-	0.032 U	0.030 U	0.030 U	0.032 U	-	0.032 U	0.30 U	0.032 U	0.032 U	0.060 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	-	0.098 UJ	0.050 U	0.050 U	0.098 UJ	-	0.098 UJ	0.50 U	0.098 UJ	0.098 UJ	0.10 U	0.098 UJ	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	-	1.9	0.052 U	0.052 U	0.063 U	-	0.85	0.52 U	0.063 U	0.063 U	0.10 U	0.063 U	0.084 J
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	-	0.044 U	0.018 U	0.018 U	0.044 U	-	0.044 U	0.18 U	0.044 U	0.044 U	0.036 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	-	0.070 U	0.048 U	0.048 U	0.070 U	-	0.070 U	0.48 U	0.070 U	0.070 U	0.096 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	-	0.047 U	0.031 U	0.031 U	0.047 U	-	0.047 U	0.31 U	0.047 U	0.047 U	0.062 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	0.014 U	0.014 U	-	-	-	0.14 U	-	-	0.028 U	-	-
1,2-Dichloropropane	ppb	NC	NC	-	0.052 U	0.014 U	0.014 U	0.052 U	-	0.052 U	0.14 U	0.052 U	0.052 U	0.028 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	-	0.032 U	0.032 U	0.032 U	0.032 U	-	0.032 U	0.32 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	-	0.065 U	0.051 U	0.051 U	0.065 U	-	0.065 U	0.51 U	0.065 U	0.065 U	0.10 U	0.065 U	0.065 U
1,3-Butadiene	ppb	NC	NC	-	0.064 U	0.010 U	0.010 U	0.064 U	-	0.064 U	0.10 U	0.064 U	0.064 U	0.020 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	-	0.065 U	0.044 U	0.044 U	0.065 U	-	0.065 U	0.44 U	0.065 U	0.065 U	0.088 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	-	0.064 U	0.044 U	0.049 J	0.064 U	-	0.064 U	0.44 U	0.064 U	0.064 U	0.088 U	0.064 U	0.069 J
1,4-Dioxane	ppb	NC	NC	-	0.080 U	0.088 U	0.088 U	0.080 UJ	-	0.080 U	0.88 U	0.080 UJ	0.080 U	0.18 U	0.080 UJ	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	-	0.039 U	0.036 U	0.036 U	0.039 U	-	0.039 U	0.36 U	0.039 U	0.039 U	0.072 U	0.039 U	0.80
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	-	0.50 J	0.72	0.63	0.37 J	-	0.59 J	0.17 U	0.20 U	0.40 J	0.86 J	0.26 J	0.78 J
2-Chlorotoluene	ppb	NC	NC	-	0.063 U	0.047 U	0.047 U	0.063 U	-	0.063 U	0.47 U	0.063 U	0.063 U	0.094 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	-	0.072 J	0.039 U	0.039 U	0.058 UJ	-	0.058 U	0.39 U	0.058 UJ	0.058 U	0.078 U	0.058 UJ	0.072 J
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	-	0.064 U	0.047 U	0.047 U	0.064 U	-	0.064 U	0.47 U	0.064 U	0.064 U	0.094 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	-	0.18 J	0.046 U	0.046 U	0.066 U	-	0.066 U	0.46 U	0.066 U	0.066 U	0.092 U	0.066 U	0.092 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	-	0.073 J	0.026 U	0.26 J	0.045 UJ	-	0.095 J	0.26 U	0.045 UJ	0.045 U	0.052 U	0.045 UJ	0.088 J
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	-	4.1 J	3.5 J	3.3 J	3.3 J	-	4.7 J	4.7 J	1.9 J	3.3 J	3.4 J	2.4 J	7.3
Allyl chloride	ppb	NC	NC	-	0.048 U	0.019 U	0.019 U	0.048 U	-	0.048 U	0.19 U	0.048 U	0.048 U	0.038 U	0.048 U	0.048 U
Benzene	ppb	20	200	-	0.056 U	0.022 J	0.049 J	0.056 U	-	0.056 U	0.18 U	0.056 U	0.056 U	0.036 U	0.056 U	0.16 J
Benzyl chloride	ppb	NC	NC	-	0.078 U	0.046 UJ	0.046 UJ	0.078 U	-	0.078 U	0.46 UJ	0.078 U	0.078 U	0.092 UJ	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	-	0.044 U	0.028 U	0.028 U	0.044 U	-	0.044 U	0.28 U	0.044 U	0.044 U	0.056 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	-	0.048 U	0.019 U	0.019 U	0.048 U	-	0.048 U	0.19 U	0.048 U	0.048 U	0.038 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	-	0.032 U	0.012 U	0.012 U	0.032 U	-	0.032 U	0.12 U	0.032 U	0.032 U	0.024 U	0.032 U	0.032 U
Butane	ppb	NC	NC	-	0.10 J	0.25 J	0.43 J	0.34 J	-	0.23 J	0.11 U	0.93	0.31 J	0.41 J	0.64	0.22 J
Carbon disulfide	ppb	NC	NC	-	0.29 J	0.93	0.23 J	0.090 J	-	0.058 J	0.66 U	0.031 U	0.031 U	2.9	0.031 U	0.035 J
Carbon tetrachloride	ppb	NC	NC	-	0.31	0.071 J	0.072 J	0.060 J	-	0.11 J	0.33 U	0.038 U	0.038 U	0.066 U	0.038 U	0.038 U
Chlorobenzene	ppb	NC	NC	-	0.049 U	0.020 U	0.020 U	0.049 U	-	0.049 U	0.70 J	0.049 U	0.049 U	0.040 U	0.049 U	1.5
Chlorodifluoromethane	ppb	NC	NC	-	1.1	0.034 U	0.034 U	0.26	-	3.3	0.34 U	0.22	2.9	0.068 U	0.31	0.43
Chloroethane	ppb	NC	NC	-	0.035 U	0.016 U	0.016 U	0.035 U	-	0.035 U	0.16 U	0.035 U	0.035 U	0.032 U	0.035 U	0.039 J
Chloroform (Trichloromethane)	ppb	800	8000	-	0.075 J	0.031 U	0.031 U	0.038 U	-	0.038 U	0.31 U	0.038 U	0.038 U	0.062 U	0.038 U	0.038 U
Chloromethane (Methyl chloride)	ppb	NC	NC	-	0.30 J	0.25 J	0.078 J	0.16 U	-	0.19 J	0.13 U	0.16 U	0.16 U	0.20 J	0.16 U	0.44 J
cis-1,2-Dichloroethene	ppb	370	3700	-	0.060 U	0.014 U	0.014 U	0.060 U	-	0.060 U	0.14 U	0.060 U	0.060 U	0.028 U	0.060 U	0.086 J
cis-1,3-Dichloropropene	ppb	NC	NC	-	0.074 U	0.016 U	0.016 U	0.074 U	-	0.074 U	0.16 U	0.074 U	0.074 U	0.032 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	-	0.040 U	0.083 J	0.097 J	0.040 U	-	0.056 J	0.39 U	0.040 U	0.051 J	0.078 U	0.040 U	0.073 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	-	0.086 J	0.048 U	0.048 U	0.057 U	-	0.057 U	0.48 U	0.057 U	0.057 U	0.096 U	0.057 U	0.057 U
Dibromochloromethane	ppb	NC	NC	-	0.042 U	0.021 U	0.021 U	0.042 U	-	0.042 U	0.21 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	-	0.66	0.67	0.76	0.18 J	-	3.2	0.60 J	0.29	1.3	0.71 J	0.17 J	0.51
Ethylbenzene	ppb	2500	25000	-	0.068 U	0.022 U	0.16 J	0.068 U	-	0.068 U	0.45 J	0.068 U	0.068 U	0.044 U	0.068 U	1.4
Hexachlorobutadiene	ppb	NC	NC	-	0.078 UJ	0.065 U	0.065 U	0.078 UJ	-	0.078 UJ	0.65 U	0.078 UJ	0.078 U	0.13 U	0.078 UJ	0.078 U
Hexane	ppb	NC	NC	-	0.037 J	0.080 J	0.18 J	0.045 J	-	0.13 J	0.28 U	0.032 U	0.13 J	0.059 J	0.058 J	0.20 J
Isopropyl alcohol	ppb	NC	NC	-	0.24 J	1.8 J	2.0 J	0.72 J	-	0.24 J	0.37 U	0.72 J	0.44 U	1.6 J	0.49 J	0.15 J
Isopropyl benzene	ppb	NC	NC	-	0.060 U	0.031 U	0.031 U	0.060 U	-	0.060 U	0.31 U	0.060 U	0.060 U	0.062 U	0.060 U	0.067 J
m&p-Xylenes	ppb	2000	20000	-	0.18 J	0.062 J	0.39 J	0.12 U	-	0.22	1.6 J	0.34	0.17 J	0.096 U	0.12 U	4.1
Methyl methacrylate	ppb	NC	NC	-	0.079 U	0.013 U	0.013 U	0.079 U	-	0.079 U	0.13 U	0.079 U	0.079 U	0.026 U	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	-	0.17 U	0.016 U	0.016 U	0.17 U	-	0.17 U	0.16 U	0.17 U	0.17 U	0.032 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	-	0.045 U	0.066 U	0.12 U	0.21 J	-	0.87	0.13 U	0.16 J	0.56	0.026 U	0.27 J	0.59
Naphthalene	ppb	29	NC	-	0.090 UJ	0.086 UJ	0.086 UJ	0.090 UJ	-	0.090 UJ	0.86 U	0.090 UJ	0.090 UJ	0.17 U	0.090 UJ	0.090 UJ
N-Butylbenzene	ppb	NC	NC	-	0.092 J	0.055 U	0.055 U	0.046 U	-	0.24 J	0.55 U	0.046 U	0.046 U	0.11 U	0.046 U	0.046 U
N-Decane	ppb	NC	NC	-	1.2 J	-	-	-	-	1.2 J	-	-	0.066 J	-	-	0.056 UJ
N-Dodecane	ppb	NC	NC	-	0.22 J	-	-	-	-	0.13 J	-	-	0.15 J	-	-	0.078 U
N-Heptane	ppb	NC	NC	-	0.047 U	0.058 J	0.11 J	0.047 U	-	0.047 U	0.10 U	0.047 U	0.076 J	0.043 J	0.047 U	1.3
Nonane	ppb	NC	NC	-	0.14 J	-	-	-	-	0.15 J	-	-	0.043 U	-	-	0.41 J
N-Propylbenzene	ppb	NC	NC	-	0.11 J	0.050 U	0.050 U	0.056 U	-	0.056 U	0.50 U	0.056 U	0.056 U	0.10 U	0.056 U	0.082 J
N-Undecane	ppb	NC	NC	-	0.24 J	-	-	-	-	1.7	-	-	0.062 U	-	-	0.062 U
o-Xylene	ppb	2000	20000	-	0.12 J	0.022 U	0.11 J	0.061 U	-	0.11 J	0.53 J	0.11 J	0.077 J	0.044 U	0.061 U	1.1
Pentane	ppb	NC	NC	-	0.060 U	-	-	-	-	0.14 J	-	-	0.21 J	-	-	0.18 J
Styrene	ppb	NC	NC	-	0.058 U	0.030 U	0.030 U	0.058 U	-	0.058 U	0.30 U	0.058 U	0.058 U	0.060 U	0.058 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC	-	0.065 J	0.071 U	0.071 U	0.12 J	-	0.038 U	0.71 U	0.078 J	0.038 U	0.14 U	0.19 J	0.32 J
tert-Butylbenzene	ppb	NC	NC	-	0.066 U	0.047 U	0.047 U	0.066 U	-	0.066 U	0.47 U	0.066 U	0.066 U	0.094 U	0.066 U	0.066 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	-	130	15	15	15	-	12	4.1	4.7	8.5	5.4	7.3	14
Tetrahydrofuran	ppb	NC	NC	-	0.063 U	0.54 J	0.076 J	0.063 U	-	0.063 U	0.18 U	0.063 U	0.063 U	1.5 J	0.063 U	0.063 U
Toluene	ppb	NC	NC	-	0.15 J	0.12 J	1.9	0.10 J	-	0.31	0.18 U	0.20	0.26	0.16 J	0.18 J	2.6
trans-1,2-Dichloroethene	ppb	NC	NC	-	0.050 U	0.032 U	0.032 U	0.050 U	-	0.050 U	0.32 U	0.050 U	0.050 U	0.064 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb	NC	NC	-	0.048 U	0.020 U	0.020 U	0.048 U	-	0.048 U	0.20 U	0.048 U	0.048 U	0.040 U	0.048 U	0.048 U
Trichloroethene	ppb	20	200	-	48*	0.99	1.1	0.87	-	0.63	0.30 U	0.036 U	0.036 U	0.060 U	0.036 U	1.2
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	-	0.62	1.9	2.0	1.0	-	0.86	3.2	1.8	1.5	4.1	2.2	2.9
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	-	0.16 J	0.093 J	0.098 J	0.065 J	-	0.082 J	0.10 U	0.053 J	0.088 J	0.020 U	0.049 J	0.11 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	-	0.035 U	0.019 U	0.019 U	0.035 U	-	0.035 U	0.19 U	0.035 U	0.035 U	0.038 U	0.035 U	0.035 U
Vinyl chloride	ppb	20	200	-	0.071 U	0.029 U	0.029 U	0.071 U	-	0.071 U	0.29 U	0.071 U	0.071 U	0.058 U	0.071 U	0.071 U
Xylenes (total)	ppb	NC	NC	-	-	0.062 J	0.50	-	-	-	2.2	-	-	0.044 U	-	-
Gases																
Methane	%	0.5	0.5	0.18 U	0.20 U	-	0.080 U	-	0.19 U	0.19 U	-	-	0.24 U	-	-	0.20 U
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	-	-	0.0 / 0.0	0.0 / 0.0	-	-	-	0.0 / 0.0	-	-	0.0 / 0.0	-	-
Methane, field (filtered)	%	0.5	0.5	0.0 / 0 / 0 / 0.0	0 / 0	-	-	0.0 / 0	0.0 / 0	0 / 0	-	0 / 0.0	0 / 0	-	0 / 0.0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3207, Bldg 24, Probe F*	*Parcel 3207, Bldg 24, Probe F*	*Parcel 3207, Bldg 24, Probe F*	*Parcel 3254, Bldg 25, Probe A*	*Parcel 3254, Bldg 25, Probe A*	*Parcel 3254, Bldg 25, Probe A*	*Parcel 3254, Bldg 25, Probe B*	*Parcel 3254, Bldg 25, Probe B*	*Parcel 3254, Bldg 25, Probe B*	*Parcel 3254, Bldg 25, Probe C*	*Parcel 3254, Bldg 25, Probe C*	*Parcel 4610, Bldg 19*	*Parcel 4610, Bldg 19*
Sample Location:				*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2215 & 2219 East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2225B East River Road*	*2225B East River Road*
Owner / Tenant:				*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Middleton Trucking*	*Middleton Trucking*	*Middleton Trucking*	*Middleton Trucking*	*Middleton Trucking*	*Middleton Trucking*	*Middleton Trucking*	*Middleton Trucking*	*Ron Barnett Construction*	*Ron Barnett Construction*
Sample ID:				*SS-38443-010712-JC-037*	*SS-38443-031012-JC-152*	*SS-38443-081112-GL-093*	*SS-38443-010512-JC-015*	*SS-38443-073112-GL-003*	*SS-38443-091212-GL-011*	*SS-38443-010512-JC-014*	*SS-38443-073112-GL-004*	*SS-38443-091212-GL-013*	*SS-38443-010913-GL-001*	*SS-38443-010913-GL-002*	*SS-38443-010412-GL-006*	*SS-38443-073112-GL-005*
Sample Date:				*1/7/2012*	*3/10/2012*	*8/11/2012*	*1/5/2012*	*7/31/2012*	*9/12/2012*	*1/5/2012*	*7/31/2012*	*9/12/2012*	*1/9/2013*	*1/9/2013*	*1/4/2012*	*7/31/2012*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*											*Duplicate*		
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	1.9	1.6	2.5	1.2	4.4	3.4	1.5	6.4	3.4	0.70	0.66	0.35 U	2.4
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.040 U	0.061 U	0.061 U	0.080 U	0.061 U	0.061 U	0.16 U	0.061 U	0.061 U	0.061 U	0.061 U	0.40 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.019 U	0.054 U	0.054 U	0.038 U	0.054 U	0.054 U	0.076 U	0.054 U	0.054 U	0.054 U	0.054 U	0.19 U	0.054 U
1,1-Dichloroethane	ppb	160	1600	0.035 U	0.026 U	0.026 U	0.070 U	0.026 U	0.026 U	0.14 U	0.026 U	0.026 U	0.026 U	0.026 U	0.35 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.030 U	0.032 U	0.032 U	0.060 U	0.032 U	0.032 U	0.12 U	0.032 U	0.032 U	0.032 U	0.032 U	0.30 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.050 U	0.098 UJ	0.098 UJ	0.10 U	0.098 UJ	0.098 UJ	0.20 U	0.098 UJ	0.098 U	0.098 U	0.098 U	0.50 U	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.052 U	0.39	0.14 J	0.10 U	0.063 U	0.063 U	0.21 U	0.10 J	0.063 U	0.14 J	0.12 J	0.52 U	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.018 U	0.044 U	0.044 U	0.036 U	0.044 U	0.044 U	0.072 U	0.044 U	0.044 U	0.044 U	0.044 U	0.18 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.048 U	0.070 U	0.070 U	0.096 U	0.070 U	0.070 U	0.19 U	0.070 U	0.070 U	0.070 U	0.070 U	0.48 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.031 U	0.047 U	0.047 U	0.062 U	0.047 U	0.047 U	0.12 U	0.047 U	0.047 U	0.047 U	0.047 U	0.31 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	0.014 U	-	-	0.028 U	-	-	0.056 U	-	-	-	-	0.14 U	-
1,2-Dichloropropane	ppb	NC	NC	0.014 U	0.052 U	0.052 U	0.028 U	0.052 U	0.052 U	0.056 U	0.052 U	0.052 U	0.052 U	0.052 U	0.14 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.13 U	0.032 U	0.032 U	0.032 U	0.032 U	0.32 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.051 U	0.065 U	0.065 U	0.10 U	0.065 U	0.065 U	0.20 U	0.065 U	0.065 U	0.065 U	0.065 U	0.51 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.010 U	0.064 U	0.064 U	0.020 U	0.064 U	0.064 U	0.040 U	0.064 U	0.064 U	0.064 U	0.064 U	0.10 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.044 U	0.065 U	0.065 U	0.088 U	0.065 U	0.065 U	0.18 U	0.065 U	0.065 U	0.065 U	0.065 U	0.44 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.044 U	0.064 U	0.064 U	0.088 U	0.064 U	0.064 U	0.18 U	0.064 U	0.064 U	0.064 U	0.064 U	0.44 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.088 U	0.080 UJ	0.080 U	0.18 U	0.11 J	0.080 U	0.35 U	0.080 U	0.080 U	0.080 U	0.080 U	0.88 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.036 U	0.039 U	0.039 U	0.072 U	0.039 U	0.039 U	0.14 U	0.039 U	0.039 U	0.039 U	0.039 U	0.36 U	0.039 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.34 J	0.20 U	0.87 J	0.26 J	0.54 J	0.36 J	0.49 J	0.97 J	0.25 J	0.43 J	0.47 J	0.17 U	0.52 J
2-Chlorotoluene	ppb	NC	NC	0.047 U	0.063 U	0.063 U	0.094 U	0.063 U	0.063 U	0.19 U	0.063 U	0.063 U	0.063 U	0.063 U	0.47 U	0.063 U
2-Hexanone	ppb	NC	NC	0.039 U	0.058 UJ	0.082 J	0.078 U	0.079 J	0.058 U	0.16 U	0.078 J	0.058 U	0.058 U	0.058 U	0.39 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.047 U	0.094 J	0.064 U	0.094 U	0.064 U	0.064 U	0.19 U	0.064 U	0.064 U	0.064 U	0.064 U	0.47 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.046 U	0.066 U	0.066 U	0.092 U	0.066 U	0.066 U	0.18 U	0.066 U	0.066 U	0.073 J	0.066 U	0.46 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.026 U	0.045 UJ	0.11 J	0.052 U	0.045 U	0.075 J	0.10 U	0.068 J	0.045 U	0.86 J	0.10 J	0.26 U	0.045 U
Acetaldehyde	ppb	110	NC	-	-	-	-	-	62 J	-	47 J	-	-	-	-	-
Acetone	ppb	NC	NC	3.7 J	1.5 J	7.4	4.8 J	4.3 J	5.3	8.4 J	7.9 J	2.0 J	14	12	0.83 J	5.4 J
Allyl chloride	ppb	NC	NC	0.019 U	0.048 U	0.048 U	0.038 U	0.048 U	0.048 U	0.076 U	0.048 U	0.048 U	0.048 U	0.048 U	0.19 U	0.048 U
Benzene	ppb	20	200	0.019 J	0.056 U	0.060 J	0.036 U	0.056 U	0.056 U	0.072 U	0.061 J	0.056 U	0.059 J	0.056 U	0.18 U	0.066 J
Benzyl chloride	ppb	NC	NC	0.048 UJ	0.078 U	0.078 U	0.092 UJ	0.078 U	0.078 U	0.18 UJ	0.078 U	0.078 U	0.078 U	0.078 U	0.46 UJ	0.078 U
Bromodichloromethane	ppb	NC	NC	0.028 U	0.044 U	0.044 U	0.056 U	0.044 U	0.044 U	0.11 U	0.044 U	0.044 U	0.044 U	0.044 U	0.28 U	0.044 U
Bromoform	ppb	NC	NC	0.019 U	0.048 U	0.048 U	0.038 U	0.048 U	0.048 U	0.076 U	0.048 U	0.048 U	0.048 U	0.048 U	0.19 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.012 U	0.032 U	0.032 U	0.024 U	0.032 U	0.032 U	0.048 U	0.032 U	0.032 U	0.032 U	0.032 U	0.12 U	0.20
Butane	ppb	NC	NC	0.11 J	2.4	0.21 J	0.71 J	0.064 UJ	0.12 J	0.30 J	0.49 J	0.064 U	0.32 J	0.19 J	0.11 U	0.064 UJ
Carbon disulfide	ppb	NC	NC	0.58	0.051 J	0.061 J	0.13 U	0.23 J	0.54	0.26 U	0.11 J	0.084 J	0.053 J	0.058 J	0.66 U	0.53
Carbon tetrachloride	ppb	NC	NC	0.033 U	0.038 U	0.038 U	0.066 U	0.060 J	0.038 J	0.13 U	0.038 UJ	0.038 UJ	0.038 U	0.038 U	0.33 U	0.040 J
Chlorobenzene	ppb	NC	NC	0.020 U	0.066 J	0.049 U	0.040 U	0.049 U	0.049 U	0.080 U	0.049 U	0.049 U	0.049 U	0.049 U	0.20 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.034 U	1.7	1.3	0.068 U	0.32	0.17 J	0.14 U	0.20	0.14 J	0.068 J	0.061 J	0.34 U	0.20
Chloroethane	ppb	NC	NC	0.016 U	0.035 U	0.051 J	0.032 U	0.035 U	0.035 U	0.064 U	0.035 U	0.035 U	0.035 U	0.035 U	0.16 U	0.035 U
Chloroform (Trichloromethane)	ppb	800	8000	0.031 U	0.038 U	0.038 U	0.062 U	0.038 U	0.038 U	0.12 U	0.53	0.31	0.038 U	0.038 U	0.31 U	0.056 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.013 U	0.22 J	0.31 J	0.026 U	0.16 U	0.16 U	0.052 U	0.24 J	0.16 U	0.16 U	0.20 J	0.13 U	0.31 J
cis-1,2-Dichloroethene	ppb	370	3700	0.014 U	0.065 J	0.060 U	0.028 U	0.060 U	0.060 U	0.056 U	0.060 U	0.060 U	0.060 U	0.060 U	0.14 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.016 U	0.074 U	0.074 U	0.032 U	0.074 U	0.074 U	0.064 U	0.074 U	0.074 U	0.074 U	0.074 U	0.16 U	0.074 U
Cyclohexane	ppb	NC	NC	0.039 U	0.040 U	0.040 U	0.078 U	0.040 U	0.040 U	0.16 U	0.040 U	0.040 U	0.10 J	0.074 J	0.39 U	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.048 U	0.060 J	0.094 J	0.096 U	0.057 U	0.057 U	0.19 U	0.057 U	0.057 U	0.057 U	0.057 U	0.48 U	0.057 U
Dibromochloromethane	ppb	NC	NC	0.021 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.084 U	0.042 U	0.042 U	0.042 U	0.042 U	0.21 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	1.1	0.14 J	0.54	1.0	0.068 UJ	0.71	1.5 J	0.068 UJ	0.068 U	4.0	3.9	0.38 U	0.068 UJ
Ethylbenzene	ppb	2500	25000	0.034 J	0.073 J	0.068 U	0.050 J	0.068 U	0.068 U	0.088 U	0.068 U	0.068 U	0.089 J	0.077 J	0.22 U	0.068 U
Hexachlorobutadiene	ppb	NC	NC	0.065 U	0.078 UJ	0.078 UJ	0.13 U	0.078 U	0.078 UJ	0.26 U	0.078 U	0.078 U	0.078 U	0.078 U	0.65 U	0.078 U
Hexane	ppb	NC	NC	0.030 J	0.26 J	0.11 J	0.11 J	0.032 U	0.046 J	0.10 U	0.14 J	0.034 J	0.094 J	0.068 J	0.26 U	0.067 J
Isopropyl alcohol	ppb	NC	NC	1.3 J	0.40 J	0.11 J	0.074 U	0.28 J	0.31 J	0.15 U	1.6 J	0.24 J	0.48 J	0.39 J	0.37 U	0.19 J
Isopropyl benzene	ppb	NC	NC	0.031 U	0.060 U	0.060 U	0.062 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.060 U	0.060 U	0.31 U	0.060 U
m&p-Xylenes	ppb	2000	20000	0.069 J	0.24	0.12 U	0.12 J	0.12 U	0.12 U	0.19 U	0.15 J	0.12 U	0.32	0.28	0.48 U	0.12 U
Methyl methacrylate	ppb	NC	NC	0.013 U	0.079 U	0.079 U	0.026 U	0.079 U	0.079 U	0.052 U	0.079 U	0.079 U	0.079 U	0.079 U	0.13 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.016 U	0.17 U	0.17 U	0.032 U	0.17 U	0.17 U	0.064 U	0.17 U	0.17 U	0.17 U	0.17 U	0.16 U	0.17 U
Methylene chloride	ppb	NC	NC	0.013 U	0.94	0.94	0.15 J	0.045 U	0.30 U	0.052 U	0.045 U	0.27 U	0.27 J	0.23 J	0.49 J	0.045 U
Naphthalene	ppb	29	NC	0.086 U	0.090 UJ	0.090 UJ	0.17 UJ	0.090 UJ	0.090 UJ	0.34 UJ	0.090 UJ	0.090 U	0.090 U	0.090 U	0.86 UJ	0.090 UJ
N-Butylbenzene	ppb	NC	NC	0.055 U	0.10 J	0.046 U	0.11 U	0.046 U	0.046 U	0.22 U	0.046 U	0.046 U	0.046 U	0.046 U	0.55 U	0.046 U
N-Decane	ppb	NC	NC	-	-	0.085 J	-	0.056 U	0.056 UJ	-	0.36 J	0.071 J	-	-	-	0.056 U
N-Dodecane	ppb	NC	NC	-	-	0.078 U	-	0.078 UJ	0.16 J	-	0.078 UJ	0.078 U	-	-	-	0.078 UJ
N-Heptane	ppb	NC	NC	0.010 U	0.047 U	0.047 J	0.32 J	0.047 U	0.047 U	0.040 U	0.58	0.047 U	0.73	0.65	0.10 U	0.047 U
Nonane	ppb	NC	NC	-	-	0.043 U	-	0.043 U	0.043 U	-	0.043 U	0.043 U	-	-	-	0.043 U
N-Propylbenzene	ppb	NC	NC	0.050 U	0.056 U	0.056 U	0.10 U	0.056 U	0.056 U	0.20 U	0.056 U	0.056 U	0.056 U	0.056 U	0.50 U	0.056 U
N-Undecane	ppb	NC	NC	-	-	0.33 J	-	0.062 U	0.062 U	-	0.21 J	0.062 U	-	-	-	0.062 U
Octane	ppb	NC	NC	-	-	0.036 U	-	0.036 U	0.036 U	-	0.036 U	0.036 U	-	-	-	0.036 U
o-Xylene	ppb	2000	20000	0.022 U	0.18 J	0.061 U	0.044 U	0.061 U	0.061 U	0.088 U	0.067 J	0.061 U	0.11 J	0.097 J	0.22 U	0.061 U
Pentane	ppb	NC	NC	-	-	0.18 J	-	0.060 U	0.086 J	-	0.060 U	0.060 U	-	-	-	0.060 U
Styrene	ppb	NC	NC	0.030 U	0.058 U	0.058 U	0.060 U	0.058 U	0.058 U	0.12 U	0.058 U	0.058 U	0.058 U	0.058 U	0.30 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC	2.7 J	0.076 J	0.085 J	0.14 U	0.14 J	2.3 J	0.28 U	1.2 J	0.049 J	0.044 J	0.055 J	0.71 U	0.11 J
tert-Butylbenzene	ppb	NC	NC	0.047 U	0.066 U	0.066 U	0.094 U	0.066 U	0.066 U	0.19 U	0.066 U	0.066 U	0.066 U	0.066 U	0.47 U	0.066 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	0.73	0.63	2.0	2.8	16	12	10	47	39	53	53	1.7 J	21
Tetrahydrofuran	ppb	NC	NC	0.018 U	0.063 U	0.063 U	0.036 U	0.063 U	0.063 U	0.072 U	0.063 U	0.063 U	0.063 U	0.063 U	0.18 U	0.063 U
Toluene	ppb	NC	NC	0.15 J	0.66	0.42	1.2	0.079 J	0.065 J	0.92	0.25	0.082 J	0.47	0.45	0.18 U	0.12 J
trans-1,2-Dichloroethene	ppb	NC	NC	0.032 U	0.050 U	0.050 U	0.064 U	0.050 U	0.050 U	0.13 U	0.050 U	0.050 U	0.050 U	0.050 U	0.32 U	0.050 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.020 U	0.048 U	0.048 U	0.040 U	0.048 U	0.048 U	0.080 U	0.048 U	0.048 U	0.048 U	0.048 U	0.20 U	0.048 U
Trichloroethene	ppb	20	200	0.11 J	0.036 U	0.10 J	0.060 U	0.036 U	0.036 U	0.12 U	0.036 U	0.036 U	0.053 J	0.048 J	0.30 U	0.036 U
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	2.4	1.4	2.2	2.2	3.2	4.1	4.2	10	5.8	7.0	6.8	0.34 U	0.77
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.073 J	0.044 J	0.087 J	0.58	0.46	0.24	0.077 J	0.60	0.41	0.073 J	0.075 J	0.10 U	0.10 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.019 U	0.035 U	0.035 U	0.038 U	0.035 U	0.035 U	0.076 U	0.035 U	0.035 U	0.035 U	0.035 U	0.19 U	0.035 U
Vinyl chloride	ppb	20	200	0.029 U	0.071 U	0.071 U	0.058 U	0.071 U	0.071 U	0.12 U	0.071 U	0.071 U	0.071 UJ	0.071 UJ	0.29 U	0.071 U
Xylenes (total)	ppb	NC	NC	0.069 J	-	-	0.12 J	-	-	0.088 U	-	-	-	-	0.22 U	-
Gases																
Methane	%	0.5	0.5	-	-	0.33 U	0.066 U	0.22 U	0.21 U	-	0.20 U	0.20 U	-	-	-	0.21 U
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	-	-	0.0 / 0.0	-	-	0.0 / 0.0	-	-	-	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.5	0.5	-	0.0 / 0.0	0 / 0	-	0 / 0	-	-	0 / 0	-	-	-	-	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 4610, Bldg 22, Probe A*	*Parcel 4610, Bldg 22, Probe A*	*Parcel 4610, Bldg 22, Probe B*	*Parcel 4610, Bldg 22, Probe B*	*Parcel 5054, Bldg 1*	*Parcel 5054, Bldg 1 Probe A*	*Parcel 5054, Bldg 1 Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe A*	*Parcel 5054, Bldg 2, Probe B*	*Parcel 5054, Bldg 2, Probe B*
Sample Location:				*2225E East River Road*	*2225E East River Road*	*2225E East River Road*	*2225E East River Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*
Owner / Tenant:				*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*
Sample ID:				*SS-38443-010412-GL-004*	*SS-38443-073112-GL-006*	*SS-38443-010412-JC-005*	*SS-38443-073112-GL-007*	*SS-38443-011012-JC-057*	*SS-38443-031312-JC-156*	*SS-38443-080612-GL-055*	*SS-38443-011012-JC-048*	*SS-38443-011012-JC-049*	*SS-38443-031312-JC-159*	*SS-38443-031312-JC-160*	*SS-38443-011012-JC-050*	*SS-38443-031312-JC-163*
Sample Date:				*1/4/2012*	*7/31/2012*	*1/4/2012*	*7/31/2012*	*1/10/2012*	*3/13/2012*	*8/6/2012*	*1/10/2012*	*1/10/2012*	*3/13/2012*	*3/13/2012*	*1/10/2012*	*3/13/2012*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	0.18 U	1.0	0.28 U	0.13 J	2.0 J	1.6 J	5.2 J	-	R	8.6 U	-	0.10 U	0.084 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.20 U	0.061 U	0.32 U	0.061 U	1.3 U	2.3 U	4.8 U	-	R	17 U	-	0.12 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.095 U	0.054 U	0.15 U	0.054 U	0.60 U	2.0 U	4.3 U	-	R	15 U	-	0.057 U	0.054 U
1,1-Dichloroethane	ppb	160	1600	0.18 U	0.026 U	0.28 U	0.026 U	1.1 U	0.98 U	2.1 U	-	R	21 J	-	0.53 J	1.7
1,1-Dichloroethene	ppb	NC	NC	0.15 U	0.032 U	0.24 U	0.032 U	0.95 U	1.2 U	2.5 U	-	R	9.2 U	-	0.090 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.25 U	0.098 UJ	0.40 U	0.098 UJ	1.6 U	3.7 U	7.8 U	-	R	28 U	-	0.15 U	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.26 U	0.063 U	0.42 U	6.4	1.6 U	2.4 U	5.0 U	-	R	55 J	-	0.16 U	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.090 U	0.044 U	0.14 U	0.044 U	0.57 U	1.7 U	3.5 U	-	R	13 U	-	0.054 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.24 U	0.070 U	0.38 U	0.070 U	1.5 U	2.6 U	5.5 U	-	R	20 U	-	0.14 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.16 U	0.047 U	0.25 U	0.047 U	0.98 U	1.8 U	3.7 U	-	R	13 U	-	0.093 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	0.070 U	-	0.11 U	-	8.3	-	-	-	R	-	-	6.1	-
1,2-Dichloropropane	ppb	NC	NC	0.070 U	0.052 U	0.11 U	0.052 U	0.44 U	2.0 U	4.1 U	-	R	15 U	-	0.042 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.16 U	0.032 U	0.26 U	0.032 U	1.0 U	1.2 U	2.5 U	-	R	9.2 U	-	0.096 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.26 U	0.065 U	0.41 U	3.3	1.6 U	2.4 U	5.1 U	-	R	19 U	-	0.15 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.050 U	0.064 U	0.080 U	0.064 U	0.32 U	2.4 U	5.1 U	-	R	18 U	-	0.030 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.22 U	0.065 U	0.35 U	0.065 U	1.4 U	2.4 U	5.1 U	-	R	19 U	-	0.13 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.22 U	0.064 U	0.35 U	0.064 U	1.4 U	2.4 U	5.1 U	-	R	18 UJ	-	0.13 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.44 U	0.080 U	0.70 U	0.080 U	2.8 U	3.0 U	6.3 U	-	R	23 U	-	0.26 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.18 U	0.039 U	0.29 U	0.039 U	1.1 U	1.5 U	3.1 U	-	R	940	-	0.11 U	0.071 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.085 U	0.80 J	0.14 U	0.42 J	0.54 U	7.5 U	16 U	-	R	57 U	-	0.051 U	0.20 U
2-Chlorotoluene	ppb	NC	NC	0.24 U	0.063 U	0.38 U	0.063 U	1.5 U	2.4 U	5.0 U	-	R	18 U	-	0.14 U	0.063 U
2-Hexanone	ppb	NC	NC	0.20 U	0.058 U	0.31 U	0.084 J	1.2 U	2.2 U	4.6 U	-	R	17 U	-	0.12 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.24 U	0.064 U	0.38 U	0.069 J	1.5 U	2.4 U	5.1 U	-	R	18 U	-	0.14 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.23 U	0.066 U	0.37 U	0.40	1.5 U	2.5 U	5.2 U	-	R	19 U	-	0.14 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.13 U	0.045 U	0.21 U	0.067 J	0.82 U	1.7 U	3.6 U	-	R	13 U	-	0.078 U	0.045 U
Acetaldehyde	ppb	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	0.56 J	5.3 J	0.36 U	3.3 J	3.1 J	53 U	110 UJ	-	R	790 J	-	2.0 J	2.2 J
Allyl chloride	ppb	NC	NC	0.095 U	0.048 U	0.15 U	0.048 U	0.60 U	1.8 U	3.8 U	-	R	14 U	-	0.057 U	0.048 U
Benzene	ppb	20	200	0.090 U	0.056 U	0.14 U	0.074 J	0.57 U	2.1 U	4.4 U	-	R	98[a]	-	0.054 U	0.10 J
Benzyl chloride	ppb	NC	NC	0.23 UJ	0.078 U	0.37 UJ	0.078 U	1.5 UJ	2.9 U	6.2 U	-	R	22 U	-	0.14 UJ	0.078 U
Bromodichloromethane	ppb	NC	NC	0.14 U	0.044 U	0.22 U	0.044 U	0.88 U	1.7 U	3.5 U	-	R	13 U	-	0.084 U	0.044 U
Bromoform	ppb	NC	NC	0.095 U	0.048 U	0.15 U	0.048 U	0.60 U	1.8 U	3.8 U	-	R	14 U	-	0.057 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.060 U	0.032 U	0.096 U	0.032 U	0.38 U	1.2 U	2.5 U	-	R	9.2 U	-	0.036 U	0.032 U
Butane	ppb	NC	NC	2.7	3.2 J	0.088 U	0.35 J	0.35 U	2.4 U	5.1 U	-	R	1800 J	-	0.31 J	4.4
Carbon disulfide	ppb	NC	NC	0.33 U	0.031 U	0.53 U	0.054 J	2.1 U	1.2 U	2.5 U	-	R	8.9 U	-	0.20 U	0.031 U
Carbon tetrachloride	ppb	NC	NC	0.17 U	0.038 UJ	0.26 U	0.086 J	1.0 U	1.4 U	3.0 U	-	R	11 U	-	0.099 U	0.051 J
Chlorobenzene	ppb	NC	NC	0.10 U	0.049 U	0.16 U	0.049 U	0.63 U	1.8 U	3.9 U	-	R	14 U	-	0.060 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.17 U	0.22	0.27 U	0.66	1.1 U	2.4 J	2.9 U	-	R	320 J	-	0.10 U	4.5
Chloroethane	ppb	NC	NC	0.080 U	0.035 U	0.13 U	0.035 U	0.51 U	1.3 U	2.8 U	-	R	44 J	-	0.048 U	0.035 U
Chloroform (Trichloromethane)	ppb	800	8000	0.16 U	0.096 J	0.25 U	0.038 U	1.6 J	1.4 U	5.0 J	-	R	11 U	-	0.46 J	0.78
Chloromethane (Methyl chloride)	ppb	NC	NC	0.065 U	0.32 J	0.10 U	0.24 J	0.41 U	6.0 U	13 U	-	R	46 U	-	0.039 U	0.16 U
cis-1,2-Dichloroethene	ppb	370	3700	0.070 U	0.060 U	0.11 U	0.060 U	8.3	5.8 J	29	-	R	17 U	-	6.1	8.8
cis-1,3-Dichloropropene	ppb	NC	NC	0.080 U	0.074 U	0.13 U	0.074 U	0.51 U	2.8 U	5.9 U	-	R	21 U	-	0.048 U	0.074 U
Cyclohexane	ppb	NC	NC	0.20 U	0.040 U	0.31 U	0.040 U	1.2 U	1.5 U	3.2 U	-	R	1700	-	0.12 U	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.24 U	0.057 U	0.38 U	0.20	1.5 U	2.1 U	4.5 U	-	R	16 U	-	0.14 U	0.057 U
Dibromochloromethane	ppb	NC	NC	0.11 U	0.042 U	0.17 U	0.042 U	0.66 U	1.6 U	3.3 U	-	R	12 U	-	0.063 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.90 J	0.53 J	0.48 J	0.60	1.2 U	2.6 U	5.4 U	-	R	19 U	-	0.45 J	0.43
Ethylbenzene	ppb	2500	25000	0.11 U	0.068 U	0.18 U	0.23	0.70 U	2.6 U	5.4 U	-	R	19 U	-	0.11 J	0.12 J
Hexachlorobutadiene	ppb	NC	NC	0.33 U	0.078 U	0.52 U	0.078 UJ	2.1 U	2.9 U	6.2 U	-	R	22 U	-	0.19 U	0.078 U
Hexane	ppb	NC	NC	0.26 J	0.16 J	0.21 U	0.085 J	0.82 U	1.2 U	2.5 U	-	R	730	-	0.078 U	0.33 J
Isopropyl alcohol	ppb	NC	NC	0.19 U	0.88 J	0.30 U	39	1.2 U	1.7 U	3.5 U	-	R	21 J	-	0.11 U	0.27 J
Isopropyl benzene	ppb	NC	NC	0.16 U	0.060 U	0.25 U	0.060 U	0.98 U	2.3 U	4.8 U	-	R	17 U	-	0.093 U	0.060 U
m&p-Xylenes	ppb	2000	20000	0.24 U	0.12 J	0.38 U	1.3	1.5 U	4.5 U	9.5 U	-	R	34 U	-	0.44 J	0.43
Methyl methacrylate	ppb	NC	NC	0.065 U	0.079 U	0.10 U	0.079 U	0.41 U	3.0 U	6.3 U	-	R	1200	-	0.17 J	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.080 U	0.17 U	0.13 U	0.17 U	0.51 U	6.4 U	13 U	-	R	49 U	-	0.048 U	0.17 U
Methylene chloride	ppb	NC	NC	0.065 U	0.045 U	0.10 U	0.045 U	0.41 U	2.8 J	3.6 U	-	R	240	-	0.15 U	2.0
Naphthalene	ppb	29	NC	0.43 UJ	0.090 UJ	0.69 UJ	0.66	2.7 UJ	3.4 U	7.1 U	-	R	26 U	-	0.26 UJ	0.090 U
N-Butylbenzene	ppb	NC	NC	0.28 U	0.046 U	0.44 U	0.74	1.7 U	1.7 U	3.6 U	-	R	13 U	-	0.16 U	0.048 U
N-Decane	ppb	NC	NC	-	0.062 J	-	0.89 J	-	-	4.4 U	-	-	0.056 U	-	-	-
N-Dodecane	ppb	NC	NC	-	0.078 UJ	-	0.52 J	-	-	6.2 U	-	-	0.078 U	-	-	-
N-Heptane	ppb	NC	NC	0.050 U	0.047 U	0.080 U	0.047 U	0.32 U	1.8 U	3.7 U	-	R	47 J	-	2.9	0.063 J
Nonane	ppb	NC	NC	-	0.043 U	-	0.38 J	-	-	3.4 U	-	-	0.043 U	-	-	-
N-Propylbenzene	ppb	NC	NC	0.25 U	0.056 U	0.40 U	0.23 J	1.6 U	2.1 U	4.4 U	-	R	16 U	-	0.15 U	0.056 U
N-Undecane	ppb	NC	NC	-	0.062 U	-	0.29 J	-	-	4.9 U	-	-	0.062 U	-	-	-
Octane	ppb	NC	NC	-	0.036 U	-	0.067 J	-	-	2.9 U	-	-	0.036 U	-	-	-
o-Xylene	ppb	2000	20000	0.11 U	0.061 U	0.18 U	0.70	0.70 U	2.3 U	4.8 U	-	R	17 U	-	0.24 J	0.11 J
Pentane	ppb	NC	NC	-	0.92 J	-	1.5	-	-	4.8 U	-	-	720	-	-	-
Styrene	ppb	NC	NC	0.15 U	0.058 U	0.24 U	0.15 J	0.95 U	2.2 U	4.6 U	-	R	17 U	-	0.090 U	0.058 U
tert-Butyl alcohol	ppb	NC	NC	0.36 U	0.93 J	0.57 U	0.13 J	2.2 U	1.4 U	3.0 U	-	R	11 U	-	0.21 U	0.10 J
tert-Butylbenzene	ppb	NC	NC	0.24 U	0.066 U	0.38 U	0.066 U	1.5 U	2.5 U	5.2 U	-	R	19 U	-	0.14 U	0.066 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	1.2	7.8	0.088 U	0.17 J	11	9.5	71	-	R	11 U	-	0.42 J	0.50
Tetrahydrofuran	ppb	NC	NC	0.090 U	0.063 U	0.14 U	0.063 U	0.57 U	2.4 U	5.0 U	-	R	18 U	-	0.054 U	0.063 U
Toluene	ppb	NC	NC	0.40 J	0.57	0.14 U	0.67	0.57 U	2.0 U	4.3 U	-	R	62	-	0.68	0.78
trans-1,2-Dichloroethene	ppb	NC	NC	0.16 U	0.050 U	0.26 U	0.050 U	1.0 U	1.9 U	4.0 U	-	R	14 U	-	0.096 U	0.050 U
trans-1,3-Dichloropropene	ppb	NC	NC	0.10 U	0.048 U	0.16 U	0.048 U	0.63 U	1.8 U	3.8 U	-	R	14 U	-	0.060 U	0.048 U
Trichloroethene	ppb	20	200	0.15 U	0.036 U	0.24 U	0.036 U	610[ab]	350[ab]	2700[ab]	-	R	10 U	-	22[a]	32[a]
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.48 J	2.3	0.27 U	0.99	1.1 U	0.90 U	1.9 U	-	R	24 J	-	0.21 J	0.35
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	7.7	38	0.080 U	2.6	0.32 U	1.2 U	2.5 U	-	R	8.9 U	-	0.060 J	0.060 J
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.095 U	0.035 U	0.15 U	0.035 U	0.60 U	1.3 U	2.8 U	-	R	10 U	-	0.057 U	0.035 U
Vinyl chloride	ppb	20	200	0.15 U	0.071 U	0.23 U	0.071 U	0.92 U	2.7 U	5.6 U	-	R	24 J[a]	-	0.087 U	0.071 U
Xylenes (total)	ppb	NC	NC	0.11 U	-	0.18 U	-	0.70 U	-	-	-	R	-	-	0.68	-
Gases																
Methane	%	0.5	0.5	-	0.21 U	0.065 U	0.19 U	-	-	0.36 U	-	R	6.6[ab]	6.2[ab]	0.064 U	-
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	-	0.0 / 0.0	-	0.0 / 0.0	0.0	-	6.6[ab]	7.6[ab] / 7.6[ab]	8.8[ab]	8.8[ab]	0.0 / 0.0	0.0
Methane, field (filtered)	%	0.5	0.5	-	0 / 0	-	0 / 0	-	0.0 / 0.0	0 / 0	-	-	6.8[ab] / 6.8[ab]	6.6[ab] / 6.8[ab]	-	0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5054, Bldg 2, Probe B*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 4, Probe A*	*Parcel 5054, Bldg 5*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5054, Bldg 5, Probe A*	*Parcel 5171, Bldg 8, Probe A*	*Parcel 5171, Bldg 8, Probe A*
Sample Location:					*1903 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*
Owner / Tenant:					*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*B&G Trucking*	*B&G Trucking*
Sample ID:					*SS-38443-031312-JC-164*	*SS-38443-011012-JC-055*	*SS-38443-011012-JC-056*	*SS-38443-031312-JC-168*	*SS-38443-031312-JC-169*	*SS-38443-080612-GL-048*	*SS-38443-091312-GL-022*	*SS-38443-011012-JC-054*	*SS-38443-031312-JC-172*	*SS-38443-031312-JC-173*	*SS-38443-080612-GL-052*	*SS-38443-011112-JC-069*	*SS-38443-031412-JC-184*
Sample Date:					*3/13/2012*	*1/10/2012*	*1/10/2012*	*3/13/2012*	*3/13/2012*	*8/6/2012*	*9/13/2012*	*1/10/2012*	*3/13/2012*	*3/13/2012*	*8/6/2012*	*1/11/2012*	*3/14/2012*
							Duplicate		*Duplicate*								
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*														
Volatile Organic Compounds																	
1,1,1-Trichloroethane	ppb	NC	NC		-	7.4	7.2	12	10	12	17	4.5	7.1	-	11	2.8 U	3.2 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC		-	0.070 U	0.076 U	0.30 U	0.30 U	0.61 U	0.61 U	0.40 U	1.6 U	-	1.8 U	3.2 U	6.5 U
1,1,2-Trichloroethane	ppb	NC	NC		-	0.033 U	0.036 U	0.27 U	0.27 U	0.54 U	0.54 U	0.19 U	1.4 U	-	1.6 U	1.5 U	5.8 U
1,1-Dichloroethane	ppb	160	1600		-	0.20 J	0.18 J	0.13 U	0.13 U	0.46 J	1.0 J	3.5	6.1	-	8.4	2.8 U	2.8 U
1,1-Dichloroethene	ppb	NC	NC		-	0.052 U	0.057 U	0.16 U	0.16 U	0.32 U	0.32 U	0.30 U	0.83 U	-	0.97 U	2.4 U	3.4 U
1,2,4-Trichlorobenzene	ppb	NC	NC		-	0.087 U	0.095 U	0.49 U	0.49 U	0.98 UJ	0.98 UJ	0.50 U	2.5 U	-	3.0 U	4.0 U	10 U
1,2,4-Trimethylbenzene	ppb	NC	NC		-	0.090 U	0.099 U	0.32 U	0.32 U	0.63 U	0.63 U	0.52 U	1.6 U	-	1.9 U	4.2 U	6.7 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC		-	0.031 U	0.034 U	0.22 U	0.22 U	0.44 U	0.44 U	0.18 U	1.1 U	-	1.3 U	1.5 U	4.7 U
1,2-Dichlorobenzene	ppb	NC	NC		-	0.084 U	0.091 U	0.35 U	0.35 U	0.70 U	0.70 U	0.48 U	1.8 U	-	2.1 U	3.9 U	7.5 U
1,2-Dichloroethane	ppb	NC	NC		-	0.054 U	0.059 U	0.24 U	0.24 U	0.47 U	0.47 U	0.31 U	1.2 U	-	1.4 U	2.5 U	5.0 U
1,2-Dichloroethene (total)	ppb	NC	NC		-	0.089 J	0.096 J	-	-	-	-	2.5	-	-	-	38	-
1,2-Dichloropropane	ppb	NC	NC		-	0.024 U	0.027 U	0.26 U	0.26 U	0.52 U	0.52 U	0.14 U	1.4 U	-	1.6 U	1.1 U	5.6 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC		-	0.76	0.69	0.31 J	0.27 J	0.77 J	1.1 J	1.3 J	1.7 J	-	0.97 U	2.6 U	3.4 U
1,3,5-Trimethylbenzene	ppb	NC	NC		-	0.089 U	0.097 U	0.32 U	0.32 U	0.65 U	0.65 U	0.51 U	1.7 U	-	2.0 U	4.1 U	7.0 U
1,3-Butadiene	ppb	NC	NC		-	0.017 U	0.019 U	0.32 U	0.32 U	0.64 U	0.64 U	0.10 U	1.7 U	-	1.9 U	0.81 U	6.9 U
1,3-Dichlorobenzene	ppb	NC	NC		-	0.077 U	0.084 U	0.32 U	0.32 U	0.65 U	0.65 U	0.44 U	1.7 U	-	2.0 U	3.5 U	7.0 U
1,4-Dichlorobenzene	ppb	NC	NC		-	0.077 U	0.084 U	0.32 U	0.32 U	0.64 U	0.64 U	0.44 U	1.7 UJ	-	1.9 U	3.5 U	6.9 UJ
1,4-Dioxane	ppb	NC	NC		-	0.15 U	0.17 U	0.40 U	0.40 U	0.80 U	0.80 U	0.88 U	2.1 U	-	2.4 U	7.1 U	8.6 U
2,2,4-Trimethylpentane	ppb	NC	NC		-	0.063 U	0.068 U	0.20 U	0.20 U	0.39 U	0.39 U	0.36 U	1.0 U	-	1.2 U	2.9 U	4.2 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC		-	0.030 U	0.25 J	1.0 U	1.0 U	2.0 U	2.0 U	0.17 U	5.2 U	-	6.1 U	1.4 U	21 U
2-Chlorotoluene	ppb	NC	NC		-	0.082 U	0.089 U	0.32 U	0.32 U	0.63 U	0.63 U	0.47 U	1.6 U	-	1.9 U	3.8 U	6.7 U
2-Hexanone	ppb	NC	NC		-	0.068 U	0.074 U	0.29 U	0.29 U	0.58 U	0.58 U	0.39 U	1.5 U	-	1.8 U	3.1 U	6.2 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC		-	0.082 U	0.089 U	0.32 U	0.32 U	0.64 U	0.64 U	0.47 U	1.7 U	-	1.9 U	3.8 U	6.9 U
4-Ethyl toluene	ppb	NC	NC		-	0.080 U	0.087 U	0.33 U	0.33 U	0.66 U	0.66 U	0.46 U	1.7 U	-	2.0 U	3.7 U	7.1 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC		-	0.045 U	0.049 U	0.22 U	0.22 U	0.45 U	0.45 U	0.26 U	1.2 U	-	1.4 U	2.1 U	4.8 U
Acetaldehyde	ppb	110	NC		-	-	-	-	-	-	100 UJ	-	-	-	-	-	-
Acetone	ppb	NC	NC		-	0.52 J	1.7 J	7.0 U	7.0 U	14 U	14 U	3.5 J	36 U	-	42 UJ	13 J	150 U
Allyl chloride	ppb	NC	NC		-	0.033 U	0.036 U	0.24 U	0.24 U	0.48 U	0.48 U	0.19 U	1.2 U	-	1.5 U	1.5 U	5.1 U
Benzene	ppb	20	200		-	0.031 U	0.034 U	0.28 U	0.28 U	0.56 U	0.56 U	0.40 J	1.5 U	-	1.7 U	1.5 U	6.0 U
Benzyl chloride	ppb	NC	NC		-	0.080 UJ	0.087 UJ	0.39 U	0.39 U	0.78 U	0.78 U	0.46 UJ	2.0 U	-	2.4 U	3.7 UJ	8.4 U
Bromodichloromethane	ppb	NC	NC		-	0.049 U	0.053 U	0.22 U	0.22 U	0.44 U	0.44 U	0.28 U	1.1 U	-	1.3 U	2.3 U	4.7 U
Bromoform	ppb	NC	NC		-	0.033 U	0.036 U	0.24 U	0.24 U	0.48 U	0.48 U	0.19 U	1.2 U	-	1.5 U	1.5 U	5.1 U
Bromomethane (Methyl bromide)	ppb	NC	NC		-	0.021 U	0.023 U	0.16 U	0.16 U	0.32 U	0.32 U	0.12 U	0.83 U	-	0.97 U	0.97 U	3.4 U
Butane	ppb	NC	NC		-	0.019 U	0.021 U	2.7	3.2	0.64 U	0.64 U	2.0 J	4.7 J	-	4.4 J	0.89 U	16 J
Carbon disulfide	ppb	NC	NC		-	0.11 U	0.13 U	0.16 U	0.16 U	0.31 U	0.31 U	0.66 U	0.81 U	-	1.1 J	5.3 U	3.3 U
Carbon tetrachloride	ppb	NC	NC		-	0.057 U	0.063 U	0.19 U	0.19 U	0.38 U	0.38 U	0.67 J	0.99 U	-	1.2 U	2.7 U	4.1 U
Chlorobenzene	ppb	NC	NC		-	0.035 U	0.038 U	0.24 U	0.24 U	0.49 U	0.49 U	0.20 U	1.3 U	-	1.5 U	1.6 U	5.2 U
Chlorodifluoromethane	ppb	NC	NC		-	0.14 J	0.065 U	0.65 J	1.0	3.3	4.8	0.34 U	0.96 UJ	-	1.1 U	2.7 U	6.0 J
Chloroethane	ppb	NC	NC		-	0.028 U	0.030 U	0.18 U	0.18 U	0.35 U	0.35 U	0.16 U	0.91 U	-	1.1 U	1.3 U	3.7 U
Chloroform (Trichloromethane)	ppb	800	8000		-	0.19 J	0.19 J	0.33 J	0.27 J	0.47 J	0.56 J	1.8 J	3.6 J	-	5.6 J	16	17 J
Chloromethane (Methyl chloride)	ppb	NC	NC		-	0.023 U	0.025 U	0.80 U	0.80 U	1.6 U	1.6 U	0.13 U	4.2 U	-	4.8 U	1.0 U	17 U
cis-1,2-Dichloroethene	ppb	370	3700		-	0.089 J	0.096 J	0.30 U	0.30 U	1.1 J	1.2 J	2.5	3.8 J	-	8.1	27	28
cis-1,3-Dichloropropene	ppb	NC	NC		-	0.028 U	0.030 U	0.37 U	0.37 U	0.74 U	0.74 U	0.16 U	1.9 U	-	2.2 U	1.3 U	7.9 U
Cyclohexane	ppb	NC	NC		-	0.068 U	0.074 U	0.20 U	0.20 U	0.40 U	0.40 U	0.39 U	1.0 U	-	1.2 U	3.1 U	4.3 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC		-	0.084 U	0.091 U	0.28 U	0.28 U	0.57 U	0.57 U	0.48 U	1.5 U	-	1.7 U	3.9 U	6.1 U
Dibromochloromethane	ppb	NC	NC		-	0.037 U	0.040 U	0.21 U	0.21 U	0.42 U	0.42 U	0.21 U	1.1 U	-	1.3 U	1.7 U	4.5 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC		-	0.85 J	0.78 J	0.51 J	0.56 J	0.80 J	1.1 J	0.60 J	1.8 U	-	2.1 U	3.1 U	7.3 U
Ethylbenzene	ppb	2500	25000		-	0.038 U	0.042 U	0.34 U	0.34 U	0.68 U	0.68 U	0.25 J	1.8 U	-	2.1 U	1.8 U	7.3 U
Hexachlorobutadiene	ppb	NC	NC		-	0.11 U	0.12 U	0.39 U	0.39 U	0.78 UJ	0.78 UJ	0.65 U	2.0 U	-	2.4 U	5.2 U	8.4 U
Hexane	ppb	NC	NC		-	0.045 U	0.057 J	0.16 U	0.21 J	0.32 U	0.32 U	0.26 U	0.83 U	-	0.97 U	2.1 U	3.4 U
Isopropyl alcohol	ppb	NC	NC		-	0.064 U	0.070 U	0.55 J	0.44 J	0.44 U	0.44 U	0.37 U	1.1 U	-	1.3 U	3.0 U	4.7 U
Isopropyl benzene	ppb	NC	NC		-	0.054 U	0.059 U	0.30 U	0.30 U	0.60 U	0.60 U	0.31 U	1.6 U	-	1.8 U	2.5 U	6.4 U
m&p-Xylenes	ppb	2000	20000		-	0.084 U	0.091 U	0.60 U	0.60 U	1.2 U	1.2 U	0.84 J	3.1 U	-	3.6 U	3.9 U	13 U
Methyl methacrylate	ppb	NC	NC		-	0.023 U	0.025 U	0.40 U	0.40 U	0.79 U	0.79 U	0.13 U	2.1 U	-	2.4 U	1.0 U	8.5 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC		-	0.028 U	0.030 U	0.85 U	0.85 U	1.7 U	1.7 U	0.16 U	4.4 U	-	5.1 U	1.3 U	18 U
Methylene chloride	ppb	NC	NC		-	0.023 U	0.16 U	0.86 J	0.72 J	1.7 J	1.3 U	0.13 U	2.6 J	-	1.4 U	1.0 U	15 J
Naphthalene	ppb	29	NC		-	0.15 UJ	0.16 UJ	0.45 U	0.45 U	0.90 UJ	0.90 UJ	1.6 J	2.3 U	-	3.7 J	6.9 UJ	9.6 U
N-Butylbenzene	ppb	NC	NC		-	0.096 U	0.10 U	0.23 U	0.23 U	0.46 U	0.46 U	0.55 U	1.2 U	-	1.4 U	4.4 U	4.9 U
N-Decane	ppb	NC	NC		-	-	-	-	-	0.56 UJ	0.56 UJ	-	0.056 U	-	1.7 U	-	-
N-Dodecane	ppb	NC	NC		-	-	-	-	-	0.78 U	0.78 U	-	0.078 U	-	2.4 U	-	-
N-Heptane	ppb	NC	NC		-	0.017 U	0.019 U	0.24 U	0.24 U	0.47 U	0.47 U	0.10 U	1.2 U	-	1.4 U	0.81 U	5.0 U
Nonane	ppb	NC	NC		-	-	-	-	-	0.43 U	0.43 U	-	0.043 U	-	1.3 U	-	-
N-Propylbenzene	ppb	NC	NC		-	0.087 U	0.095 U	0.28 U	0.28 U	0.56 U	0.56 U	0.50 U	1.5 U	-	1.7 U	4.0 U	6.0 U
N-Undecane	ppb	NC	NC		-	-	-	-	-	0.62 U	0.62 U	-	0.062 U	-	1.9 U	-	-
Octane	ppb	NC	NC		-	-	-	-	-	0.36 U	0.36 U	-	0.036 U	-	1.1 U	-	-
o-Xylene	ppb	2000	20000		-	0.038 U	0.042 U	0.30 U	0.30 U	0.61 U	0.61 U	0.22 U	1.6 U	-	1.8 U	1.8 U	6.5 U
Pentane	ppb	NC	NC		-	-	-	-	-	0.60 U	0.60 U	-	0.060 U	-	1.9 J	-	-
Styrene	ppb	NC	NC		-	0.052 U	0.057 U	0.29 U	0.29 U	0.58 U	0.58 U	0.30 U	1.5 U	-	1.8 U	2.4 U	6.2 U
tert-Butyl alcohol	ppb	NC	NC		-	0.12 U	0.13 U	0.19 U	0.19 U	0.38 U	0.45 J	0.71 U	0.99 U	-	1.2 U	5.7 U	4.1 U
tert-Butylbenzene	ppb	NC	NC		-	0.082 U	0.089 U	0.33 U	0.33 U	0.66 U	0.66 U	0.47 U	1.7 U	-	2.0 U	3.8 U	7.1 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	-	14	14	22	17	55	57	3.0	4.2 J	-	7.5	8.5 J	7.8 J
Tetrahydrofuran	ppb	NC	NC	-	0.031 U	0.034 U	0.32 U	0.32 U	0.63 U	0.63 U	0.18 U	1.6 U	-	1.9 U	1.5 U	6.7 U
Toluene	ppb	NC	NC	-	0.059 J	0.11 J	0.54 J	0.42 J	0.54 U	0.54 U	0.18 U	1.4 U	-	1.6 U	73	5.8 U
trans-1,2-Dichloroethene	ppb	NC	NC	-	0.056 U	0.061 U	0.25 U	0.25 U	0.50 U	0.50 U	0.32 U	1.3 U	-	1.5 U	11 J	11 J
trans-1,3-Dichloropropene	ppb	NC	NC	-	0.035 U	0.038 U	0.24 U	0.24 U	0.48 U	0.48 U	0.20 U	1.2 U	-	1.5 U	1.6 U	5.1 U
Trichloroethene	ppb	20	200	-	48[a]	46[a]	63[a]	51[a]	170[a]	200[a]	240[ab]	360[ab]	-	700[ab]	1400[ab]	960[ab]
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	-	0.26 J	0.24 J	0.27 J	0.27 J	0.29 J	0.41 J	0.34 U	0.62 U	-	0.84 J	2.7 U	2.6 U
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	-	0.059 J	0.060 J	0.16 U	0.16 U	0.31 U	0.31 U	0.10 U	0.81 U	-	0.94 U	0.81 U	3.3 U
Vinyl bromide (Bromoethene)	ppb	NC	NC	-	0.033 U	0.036 U	0.18 U	0.18 U	0.35 U	0.35 U	0.19 U	0.91 U	-	1.1 U	1.5 U	3.7 U
Vinyl chloride	ppb	20	200	-	0.050 U	0.055 U	0.36 U	0.36 U	0.71 U	0.71 U	0.29 U	1.8 U	-	2.1 U	2.3 U	7.6 U
Xylenes (total)	ppb	NC	NC	-	0.038 U	0.042 U	-	-	-	-	0.84 J	-	-	-	1.8 U	-
Gases																
Methane	%	0.5	0.5	0.20 U	0.066 U	0.057 U	-	-	0.19 U	0.19 U	-	-	0.17 U	0.30 U	-	-
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	0.0	0.0 / 0.0	0.0 / 0.0	-	-	-	-	0.0 / 0.0	-	-	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.5	0.5	0 / 0.0	-	-	0.0 / 0	0.0 / 0	0 / 0	-	-	0 / 0.0	0.0 / 0	0 / 0	-	0.0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5171, Bldg 8, Probe A*	*Parcel 5171, Bldg 8, Probe B*	*Parcel 5171, Bldg 8, Probe B*	*Parcel 5171, Bldg 8, Probe B*	*Parcel 5171, Bldg 8, Probe C*	*Parcel 5171, Bldg 8, Probe C*	*Parcel 5171, Bldg 8, Probe C*	*Parcel 5171, Bldg 8, Probe D*	*Parcel 5171, Bldg 8, Probe D*	*Parcel 5171, Bldg 8, Probe D*	*Parcel 5171, Bldg 8, Probe D*	*Parcel 5171, Bldg 8, Probe F*	*Parcel 5171, Bldg 8, Probe F*
Sample Location:					*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*
Owner / Tenant:					*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*
Sample ID:					*SS-38443-080712-GL-060*	*SS-38443-011112-JC-065*	*SS-38443-031412-JC-185*	*SS-38443-080712-GL-062*	*SS-38443-011112-JC-066*	*SS-38443-031412-JC-187*	*SS-38443-080712-GL-063*	*SS-38443-011112-JC-064*	*SS-38443-031412-JC-188*	*SS-38443-031412-JC-189*	*SS-38443-080712-GL-065*	*SS-38443-011112-JC-067*	*SS-38443-011112-JC-068*
Sample Date:					*8/7/2012*	*1/11/2012*	*3/14/2012*	*8/7/2012*	*1/11/2012*	*3/14/2012*	*8/7/2012*	*1/11/2012*	*3/14/2012*	*3/14/2012*	*8/7/2012*	*1/11/2012*	*1/11/2012*
														Duplicate			*Duplicate*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*		*ODH Sub-Slab Action Levels (Non-residential) b*													
Volatile Organic Compounds																	
1,1,1-Trichloroethane	ppb		NC		1.3 J	0.29 J	0.42 J	0.81 J	0.19 J	0.33 J	0.58 J	0.69 U	1.8 J	1.6 J	2.3 J	0.035 U	0.052 U
1,1,2,2-Tetrachloroethane	ppb		NC		0.49 U	0.12 U	0.30 U	0.61 U	0.060 U	0.65 U	0.30 U	0.79 U	1.8 U	1.8 U	2.4 U	0.040 U	0.060 U
1,1,2-Trichloroethane	ppb		NC		0.43 U	0.057 U	0.27 U	0.54 U	0.029 U	0.57 U	0.27 U	0.37 U	1.5 U	1.5 U	2.1 U	0.019 U	0.028 U
1,1-Dichloroethane	ppb	160		1600	0.25 J	0.10 U	0.13 U	0.26 U	0.076 J	0.28 U	0.22 J	0.69 U	0.75 U	0.75 U	1.0 U	0.035 U	0.052 U
1,1-Dichloroethene	ppb		NC		0.26 U	0.090 U	0.16 U	0.32 U	0.045 U	0.34 U	0.16 U	0.59 U	0.92 U	0.92 U	1.3 U	0.030 U	0.045 U
1,2,4-Trichlorobenzene	ppb		NC		0.78 UJ	0.15 U	0.49 U	0.98 U	0.075 U	1.0 U	0.49 U	0.99 U	2.8 U	2.8 U	3.8 U	0.050 U	0.075 U
1,2,4-Trimethylbenzene	ppb		NC		0.79 J	0.19 J	0.32 U	1.7 J	0.078 U	0.67 U	0.32 U	1.0 U	1.8 U	1.8 U	2.5 U	0.20	0.11 J
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		0.35 U	0.054 U	0.22 U	0.44 U	0.027 U	0.47 U	0.22 U	0.35 U	1.3 U	1.3 U	1.7 U	0.018 U	0.027 U
1,2-Dichlorobenzene	ppb		NC		0.56 U	0.14 U	0.35 U	0.70 U	0.072 U	0.74 U	0.35 U	0.95 U	2.0 U	2.0 U	2.7 U	0.048 U	0.072 U
1,2-Dichloroethane	ppb		NC		0.38 U	0.093 U	0.24 U	0.47 U	0.047 U	0.50 U	0.24 U	0.61 U	1.3 U	1.3 U	1.8 U	0.031 U	0.046 U
1,2-Dichloroethene (total)	ppb		NC		-	0.98	-	-	1.8	-	-	16	-	-	-	0.060 J	0.021 U
1,2-Dichloropropane	ppb		NC		0.42 U	0.042 U	0.26 U	0.52 U	0.021 U	0.55 U	0.26 U	0.28 U	1.5 U	1.5 U	2.0 U	0.014 U	0.021 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		0.26 U	0.096 U	0.16 U	0.32 U	0.048 U	0.34 U	0.16 U	0.63 U	0.92 U	0.92 U	1.3 U	0.032 U	0.048 U
1,3,5-Trimethylbenzene	ppb		NC		0.52 U	0.15 U	0.32 U	0.65 U	0.077 U	0.69 UJ	0.32 U	1.0 U	1.9 U	1.9 U	2.6 U	0.059 J	0.076 U
1,3-Butadiene	ppb		NC		0.51 U	0.030 U	0.32 U	0.64 U	0.015 U	0.68 U	0.32 U	0.20 U	1.8 U	1.8 U	2.5 U	0.010 U	0.015 U
1,3-Dichlorobenzene	ppb		NC		0.52 U	0.13 U	0.32 U	0.65 U	0.066 U	0.69 U	0.32 U	0.87 U	1.9 U	1.9 U	2.6 U	0.044 U	0.066 U
1,4-Dichlorobenzene	ppb		NC		0.51 U	0.13 U	0.32 UJ	0.64 U	0.066 U	0.68 U	0.32 U	0.87 U	1.8 UJ	1.8 UJ	2.5 U	0.044 U	0.066 U
1,4-Dioxane	ppb		NC		0.64 U	0.26 U	0.40 U	0.80 U	0.13 U	0.85 U	0.40 U	1.7 U	2.3 U	2.3 U	3.1 U	0.088 U	0.13 U
2,2,4-Trimethylpentane	ppb		NC		0.59 J	0.11 U	0.54 J	0.39 U	0.054 U	0.41 U	0.20 U	0.71 U	1.1 U	1.1 U	1.5 U	0.036 U	0.054 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		1.6 U	0.14 J	1.0 U	2.0 U	0.30 J	2.1 U	1.0 U	0.33 U	5.7 U	5.7 U	7.9 U	0.47 J	0.27 J
2-Chlorotoluene	ppb		NC		0.50 U	0.14 U	0.32 U	0.63 U	0.071 U	0.67 U	0.32 U	0.93 U	1.8 U	1.8 U	2.5 U	0.047 U	0.070 U
2-Hexanone	ppb		NC		0.46 U	0.12 U	0.29 U	0.58 U	0.059 U	0.61 U	0.29 U	0.77 U	1.7 U	1.7 U	2.3 U	0.039 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		0.51 U	0.14 U	0.32 U	0.64 U	0.071 U	0.68 U	0.32 U	0.93 U	1.8 U	1.8 U	2.5 U	0.047 U	0.070 U
4-Ethyl toluene	ppb		NC		0.53 U	0.14 U	0.33 U	0.66 U	0.069 U	0.70 U	0.33 U	0.91 U	1.9 U	1.9 U	2.6 U	0.055 J	0.069 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		0.36 U	0.078 U	0.22 U	0.45 U	0.039 U	0.48 U	0.22 U	0.51 U	1.3 U	1.3 U	1.8 U	0.026 U	0.039 U
Acetaldehyde	ppb	110			-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb		NC		11 J	6.5 J	54	14 UJ	7.0 J	15 U	7.0 U	9.9 J	40 U	40 U	55 UJ	7.7	8.2
Allyl chloride	ppb		NC		0.38 U	0.057 U	0.24 U	0.48 U	0.029 U	0.51 U	0.24 U	0.37 U	1.4 U	1.4 U	1.9 U	0.019 U	0.028 U
Benzene	ppb	20		200	1.1 J	0.13 J	1.1	0.74 J	0.077 J	0.59 U	0.28 U	0.35 U	1.6 U	1.6 U	2.2 U	0.17 J	0.18 J
Benzyl chloride	ppb		NC		0.62 U	0.14 U	0.39 U	0.78 U	0.069 UJ	0.83 U	0.39 U	0.91 UJ	2.2 U	2.2 U	3.1 U	0.046 UJ	0.069 UJ
Bromodichloromethane	ppb		NC		0.35 U	0.084 U	0.22 U	0.44 U	0.042 U	0.47 U	0.22 U	0.55 U	1.3 U	1.3 U	1.7 U	0.028 U	0.042 U
Bromoform	ppb		NC		0.38 U	0.057 U	0.24 U	0.48 U	0.029 U	0.51 U	0.24 U	0.37 U	1.4 U	1.4 U	1.9 U	0.019 U	0.028 U
Bromomethane (Methyl bromide)	ppb		NC		0.26 U	0.036 U	0.16 U	0.32 U	0.018 U	0.34 U	0.16 U	0.24 U	0.92 U	0.92 U	1.3 U	0.012 U	0.018 U
Butane	ppb		NC		15	0.033 U	5.9 J	0.64 U	0.017 U	0.94 J	0.32 J	0.22 U	6.6 J	8.0 J	2.5 U	2.2	2.6
Carbon disulfide	ppb		NC		0.25 U	1.6	0.16 U	0.31 U	1.1	0.33 U	0.16 U	1.3 U	0.89 U	0.89 U	1.2 U	0.15 J	0.098 U
Carbon tetrachloride	ppb		NC		0.64 J	0.099 U	0.19 U	0.38 U	0.050 U	0.40 UJ	0.19 U	0.65 U	1.1 U	1.1 U	1.5 U	0.067 J	0.070 J
Chlorobenzene	ppb		NC		0.39 U	0.060 U	0.24 U	0.49 U	0.030 U	0.52 U	0.24 U	0.39 U	1.4 U	1.4 U	1.9 U	0.020 U	0.030 U
Chlorodifluoromethane	ppb		NC		0.30 U	0.10 U	0.84 J	0.37 U	0.051 U	0.39 U	0.18 U	0.67 U	1.6 J	1.6 J	1.5 U	0.034 U	0.051 U
Chloroethane	ppb		NC		0.29 J	0.048 U	0.18 U	0.35 U	0.024 U	0.37 U	0.18 U	0.32 U	1.0 U	1.0 U	1.4 U	0.016 U	0.024 U
Chloroform (Trichloromethane)	ppb	800		8000	25	0.74	1.0	2.3	0.89	1.4 J	3.3	3.8 J	4.9 J	5.0 J	7.4 J	0.19 J	0.20 J
Chloromethane (Methyl chloride)	ppb		NC		1.3 U	0.17 J	0.80 U	1.6 U	0.17 J	1.7 U	0.80 U	0.26 U	4.6 U	4.6 U	6.3 U	0.013 U	0.019 U
cis-1,2-Dichloroethene	ppb	370		3700	48	0.49 J	0.55 J	1.4 J	1.7	2.7	5.0	10	13	14	20	0.014 U	0.021 U
cis-1,3-Dichloropropene	ppb		NC		0.59 U	0.048 U	0.37 U	0.74 U	0.024 U	0.78 U	0.37 U	0.32 U	2.1 U	2.1 U	2.9 U	0.016 U	0.024 U
Cyclohexane	ppb		NC		0.36 J	0.12 U	0.64 J	0.40 U	0.084 J	0.42 U	0.27 J	0.77 U	1.1 U	1.1 U	1.6 U	0.11 J	0.12 J
Cymene (p-Isopropyltoluene)	ppb		NC		0.46 U	0.19 J	0.28 U	0.57 U	0.072 U	0.60 U	0.28 U	0.95 U	1.6 U	1.6 U	2.2 U	0.048 U	0.072 U
Dibromochloromethane	ppb		NC		0.34 U	0.063 U	0.21 U	0.42 U	0.032 U	0.45 U	0.21 U	0.41 U	1.2 U	1.2 U	1.6 U	0.021 U	0.031 U
Dichlorodifluoromethane (CFC-12)	ppb		NC		0.95 J	1.8	2.2	2.0	7.5	9.1	5.9	2.6 J	7.0 J	3.9 J	2.7 U	0.62	0.65 J
Ethylbenzene	ppb	2500		25000	0.54 U	0.80	0.34 U	1.0 J	0.10 J	0.72 U	0.34 U	0.43 U	2.0 U	2.0 U	2.7 U	0.20	0.18 J
Hexachlorobutadiene	ppb		NC		0.62 UJ	0.19 U	0.39 U	0.78 U	0.098 U	0.83 U	0.39 U	1.3 U	2.2 U	2.2 U	3.1 U	0.065 U	0.097 U
Hexane	ppb		NC		1.5 J	0.078 U	10	0.46 J	0.071 J	0.35 J	0.20 J	0.51 U	0.92 U	0.92 U	1.3 U	0.34	0.42
Isopropyl alcohol	ppb		NC		16	0.11 U	6.1 J	0.50 J	2.3 J	1.7 J	0.76 J	0.73 U	1.3 U	1.3 U	1.8 J	0.96 J	2.1 J
Isopropyl benzene	ppb		NC		0.48 U	0.12 J	0.30 U	0.60 U	0.047 U	0.64 U	0.30 U	0.61 U	1.7 U	1.7 U	2.4 U	0.065 J	0.048 J
m&p-Xylenes	ppb	2000		20000	1.4 J	1.1 J	0.60 U	4.1	0.42 J	1.3 U	0.60 U	0.95 U	3.4 U	3.4 U	4.7 U	0.44 J	0.31 J
Methyl methacrylate	ppb		NC		0.63 U	0.039 U	0.40 U	0.79 U	0.020 U	0.84 U	0.40 U	0.26 U	2.3 U	2.3 U	3.1 U	0.013 U	0.019 U
Methyl tert butyl ether (MTBE)	ppb		NC		1.4 U	0.048 U	0.85 U	1.7 U	0.024 U	1.8 U	0.85 U	0.32 U	4.9 U	4.9 U	6.7 U	0.016 U	0.024 U
Methylene chloride	ppb		NC		1.7 J	0.039 U	1.2 J	0.45 U	0.12 J	0.48 U	0.22 U	0.26 U	5.6 J	4.6 J	1.8 U	0.12 J	0.14 J
Naphthalene	ppb	29			0.72 UJ	0.26 U	0.45 U	0.90 U	0.13 UJ	0.95 U	0.45 U	1.7 UJ	2.6 U	2.6 U	3.5 U	0.086 UJ	0.13 J
N-Butylbenzene	ppb		NC		0.37 U	0.16 U	0.23 U	0.46 U	0.083 U	0.49 U	0.23 U	1.1 U	1.3 U	1.3 U	1.8 U	0.055 U	0.082 U
N-Decane	ppb		NC		1.2 J	-	-	2.6 J	-	1.8 J	0.42 J	-	-	-	2.2 U	-	-
N-Dodecane	ppb		NC		0.62 U	-	-	0.78 U	-	0.83 U	0.39 U	-	-	-	3.1 U	-	-
N-Heptane	ppb		NC		0.38 U	1.0	2.7	0.53 J	0.25 J	0.53 J	0.24 U	2.3 J	1.3 U	1.3 U	1.8 U	0.48	0.59
Nonane	ppb		NC		0.45 J	-	-	1.3 J	-	1.4 J	0.22 U	-	-	-	1.7 U	-	-
N-Propylbenzene	ppb		NC		0.45 U	0.15 U	0.28 U	0.56 U	0.075 U	0.59 U	0.28 U	0.99 U	1.6 U	1.6 U	2.2 U	0.050 U	0.075 U
N-Undecane	ppb		NC		0.96 J	-	-	1.3 J	-	0.66 U	0.31 U	-	-	-	2.4 U	-	-
Octane	ppb		NC		0.29 U	-	-	0.36 U	-	0.38 U	0.18 U	-	-	-	1.4 U	-	-
o-Xylene	ppb	2000		20000	0.69 J	0.40 J	0.30 U	1.8 J	0.15 J	0.65 U	0.30 U	0.43 U	1.8 U	1.8 U	2.4 U	0.18 J	0.13 J
Pentane	ppb		NC		9.3	-	-	0.60 U	-	0.64 U	0.30 U	-	-	-	2.4 U	-	-
Styrene	ppb		NC		0.46 U	0.090 U	0.29 U	0.58 U	0.045 U	0.61 U	0.29 U	0.59 U	1.7 U	1.7 U	2.3 U	0.030 U	0.045 U
tert-Butyl alcohol	ppb		NC		0.30 U	0.21 U	3.6 J	0.38 U	0.11 U	1.6 J	1.2 J	1.4 U	1.1 U	1.1 U	1.5 U	0.44 J	0.11 U
tert-Butylbenzene	ppb		NC		0.53 U	0.14 U	0.33 U	0.66 U	0.071 U	0.70 U	0.33 U	0.93 U	1.9 U	1.9 U	2.6 U	0.047 U	0.070 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250		2500		15	76	79	220	21	32	78	8.4	14	11	28	0.59	0.62
Tetrahydrofuran	ppb		NC		NC	0.50 U	0.054 U	0.32 U	0.63 U	0.027 U	0.67 U	0.32 U	0.35 U	1.8 U	1.8 U	2.5 U	0.018 U	0.027 U
Toluene	ppb		NC		NC	1.4 J	77	3.6	4.9	39	0.98 J	0.30 J	8.1	1.5 U	1.5 U	2.1 U	0.51	0.38
trans-1,2-Dichloroethene	ppb		NC		NC	19	0.50 J	0.70 J	1.4 J	0.16 J	0.53 U	0.42 J	5.7	6.8	6.9	13	0.060 J	0.048 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.38 U	0.060 U	0.24 U	0.48 U	0.030 U	0.51 U	0.24 U	0.39 U	1.4 U	1.4 U	1.9 U	0.020 U	0.030 U
Trichloroethene	ppb	20		200		1800[ab]	31[a]	26[a]	95[a]	11	17	35[a]	420[ab]	420[ab]	350[ab]	930[ab]	5.3	5.6
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.35 J	0.10 U	0.23 J	0.31 J	0.17 J	0.25 U	0.16 J	0.67 U	0.69 U	0.69 U	0.94 U	0.24	0.26 J
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.25 U	0.032 J	0.16 U	0.31 U	0.045 J	0.33 U	0.16 U	0.20 U	0.89 U	0.89 U	1.2 U	0.069 J	0.073 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.28 U	0.057 U	0.18 U	0.35 U	0.029 U	0.37 U	0.18 U	0.37 U	1.0 U	1.0 U	1.4 U	0.019 U	0.028 U
Vinyl chloride	ppb	20		200		0.57 U	0.087 U	0.36 U	0.71 U	0.044 U	0.75 U	0.36 U	0.57 U	2.0 U	2.0 U	2.8 U	0.029 U	0.043 U
Xylenes (total)	ppb		NC		NC	-	1.5	-	-	0.57	-	-	0.43 U	-	-	-	0.62	0.44
Gases																		
Methane	%	0.5		0.5		0.21 U	0.068 U	-	0.19 U	-	0.19 U	0.20 U	-	-	-	0.19 U	-	-
Field Parameter																		
Methane, field (unfiltered)	%	0.5		0.5		-	0.0 / 0.0	-	-	0.0 / 0.0	-	-	0.0 / 0.0	-	-	-	0.0 / 0.0	0.0 / 0.0
Methane, field (filtered)	%	0.5		0.5		0 / 0	-	0.0 / 0.0	0 / 0	-	0.0 / 0.0	0 / 0	-	0.0 / 0.0	0.0 / 0.0	0 / 0	-	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5171, Bldg 8, Probe F*	*Parcel 5171, Bldg 8, Probe F*	*Parcel 5171, Bldg 9, Probe A*	*Parcel 5171, Bldg 9, Probe A*	*Parcel 5171, Bldg 9, Probe A*	*Parcel 5171, Bldg 9, Probe A*	*Parcel 5171, Bldg 9, Probe A*	*Parcel 5171, Bldg 9, Probe B*	*Parcel 5171, Bldg 9, Probe B*	*Parcel 5171, Bldg 9, Probe B*	*Parcel 5171, Bldg 9, Probe B*	*Parcel 5172 / 12/ A Overstreet*	*Parcel 5172 / 12 / A Overstreet*
Sample Location:					*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*2019 Dryden Road*	*2019 Dryden Road*
Owner / Tenant:					*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*Overstreet Painting*	*Overstreet Painting*
Sample ID:					*SS-38443-031412-JC-191*	*SS-38443-080712-GL-066*	*SS-38443-011112-JC-061*	*SS-38443-011112-JC-062*	*SS-38443-032712-JC-194*	*SS-38443-032712-JC-194*	*-*	*SS-38443-011112-JC-063*	*SS-38443-031412-JC-196*	*SS-38443-031412-JC-197*	*-*	*SS-38443-010612-JC-022*	*SS-38443-031512-JC-216*
Sample Date:					*3/14/2012*	*8/7/2012*	*1/11/2012*	*1/11/2012*	*3/26/2012*	*3/27/2012*	*8/7/2012*	*1/11/2012*	*3/14/2012*	*3/14/2012*	*8/7/2012*	*1/6/2012*	*3/15/2012*
								Duplicate									
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*														
Volatile Organic Compounds																	
1,1,1-Trichloroethane	ppb	NC	NC		0.045 J	0.030 U	12 J	13 J	-	20 J	-	2.6 U	6.2 U	-	-	8.7 J	13 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC		0.061 U	0.061 U	4.0 U	4.0 U	-	10 U	-	3.0 U	13 U	-	-	6.0 U	4.2 U
1,1,2-Trichloroethane	ppb	NC	NC		0.054 U	0.054 U	1.9 U	1.9 U	-	8.9 U	-	1.4 U	11 U	-	-	2.9 U	3.7 U
1,1-Dichloroethane	ppb	160	1600		0.026 U	0.026 U	3.5 U	3.5 U	-	4.3 U	-	2.6 U	5.4 U	-	-	5.3 U	5.8 J
1,1-Dichloroethene	ppb	NC	NC		0.032 U	0.032 U	3.0 U	3.0 U	-	5.3 U	-	2.3 U	6.7 U	-	-	4.5 U	2.2 U
1,2,4-Trichlorobenzene	ppb	NC	NC		0.098 U	0.098 U	5.0 U	5.0 U	-	16 U	-	3.8 U	20 U	-	-	7.5 U	6.8 U
1,2,4-Trimethylbenzene	ppb	NC	NC		0.22	0.20	5.2 U	5.2 U	-	10 U	-	18	22 J	-	-	7.8 U	4.4 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC		0.044 U	0.044 U	1.8 U	1.8 U	-	7.3 U	-	1.4 U	9.2 U	-	-	2.7 U	3.0 U
1,2-Dichlorobenzene	ppb	NC	NC		0.070 U	0.070 U	4.8 U	4.8 U	-	12 U	-	3.6 U	15 U	-	-	7.2 U	4.8 U
1,2-Dichloroethane	ppb	NC	NC		0.047 U	0.047 U	3.1 U	3.1 U	-	7.7 U	-	2.3 U	9.8 U	-	-	4.7 U	3.3 U
1,2-Dichloroethene (total)	ppb	NC	NC		-	-	1.4 U	1.4 U	-	-	-	1.1 U	-	-	-	640	-
1,2-Dichloropropane	ppb	NC	NC		0.052 U	0.052 U	1.4 U	1.4 U	-	8.6 U	-	1.1 U	11 U	-	-	2.1 U	3.6 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC		0.032 U	0.032 U	3.2 U	3.2 U	-	5.3 U	-	2.4 U	6.7 U	-	-	4.8 U	2.2 U
1,3,5-Trimethylbenzene	ppb	NC	NC		0.065 U	0.065 U	5.1 U	5.1 U	-	11 UJ	-	5.5 J	14 U	-	-	7.7 U	4.5 UJ
1,3-Butadiene	ppb	NC	NC		0.064 U	0.064 U	1.0 U	1.0 U	-	11 U	-	0.75 U	13 U	-	-	1.5 U	4.4 U
1,3-Dichlorobenzene	ppb	NC	NC		0.065 U	0.065 U	4.4 U	4.4 U	-	11 U	-	3.3 U	14 U	-	-	6.6 U	4.5 U
1,4-Dichlorobenzene	ppb	NC	NC		0.064 UJ	0.064 U	4.4 U	4.4 U	-	11 U	-	3.3 U	13 UJ	-	-	6.6 U	4.4 U
1,4-Dioxane	ppb	NC	NC		0.080 U	0.080 U	8.8 U	8.8 U	-	13 U	-	6.6 U	17 U	-	-	13 U	5.5 U
2,2,4-Trimethylpentane	ppb	NC	NC		0.044 J	0.062 J	3.6 U	3.6 U	-	6.4 U	-	54	21 J	-	-	5.4 U	2.7 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC		0.69 J	1.3	1.7 U	1.7 U	-	33 U	-	65	64 J	-	-	2.6 U	14 U
2-Chlorotoluene	ppb	NC	NC		0.063 U	0.063 U	4.7 U	4.7 U	-	10 U	-	3.5 U	13 U	-	-	7.1 U	4.4 U
2-Hexanone	ppb	NC	NC		0.058 U	0.064 J	3.9 U	3.9 U	-	9.6 U	-	2.9 U	12 U	-	-	5.9 U	4.0 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC		0.064 U	0.064 U	4.7 U	4.7 U	-	11 U	-	3.5 U	13 U	-	-	7.1 U	4.4 U
4-Ethyl toluene	ppb	NC	NC		0.066 U	0.071 J	4.6 U	4.6 U	-	11 U	-	6.6 J	14 U	-	-	6.9 U	4.6 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC		0.045 U	0.14 J	2.6 U	2.6 U	-	7.4 U	-	7.1 J	43 J	-	-	3.9 U	3.1 U
Acetaldehyde	ppb	110	NC		-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC		18	7.2 J	10 J	10 J	-	230 U	-	1900	1300	-	-	6.8 U	97 U
Allyl chloride	ppb	NC	NC		0.048 U	0.048 U	1.9 U	1.9 U	-	7.9 U	-	1.4 U	10 U	-	-	2.9 U	3.3 U
Benzene	ppb	20	200		0.26	0.23	1.8 U	1.8 U	-	9.2 U	-	1.4 U	12 U	-	-	2.7 U	3.9 U
Benzyl chloride	ppb	NC	NC		0.078 U	0.078 U	4.6 UJ	4.6 UJ	-	13 U	-	3.5 UJ	16 U	-	-	6.9 U	5.4 U
Bromodichloromethane	ppb	NC	NC		0.044 U	0.044 U	2.8 U	2.8 U	-	7.3 U	-	2.1 U	9.2 U	-	-	4.2 U	3.0 U
Bromoform	ppb	NC	NC		0.048 U	0.048 U	1.9 U	1.9 U	-	7.9 U	-	1.4 U	10 U	-	-	2.9 U	3.3 U
Bromomethane (Methyl bromide)	ppb	NC	NC		0.032 U	0.032 U	1.2 U	1.2 U	-	5.3 U	-	0.90 U	6.7 U	-	-	1.8 U	2.2 U
Butane	ppb	NC	NC		3.9 J	2.8	1.1 U	1.1 U	-	11 U	-	590	270 J	-	-	1.7 U	12 J
Carbon disulfide	ppb	NC	NC		0.031 U	0.18 J	6.6 U	6.6 U	-	5.1 U	-	5.0 U	6.4 U	-	-	9.9 U	2.1 U
Carbon tetrachloride	ppb	NC	NC		0.073 J	0.076 J	3.3 U	3.3 U	-	6.3 UJ	-	2.5 U	7.9 U	-	-	5.0 U	2.6 UJ
Chlorobenzene	ppb	NC	NC		0.049 U	0.049 U	2.0 U	2.0 U	-	8.1 U	-	1.5 U	10 U	-	-	3.0 U	3.4 U
Chlorodifluoromethane	ppb	NC	NC		0.65 J	0.51	3.4 U	3.4 U	-	6.1 U	-	2.6 U	17 J	-	-	5.1 U	2.6 U
Chloroethane	ppb	NC	NC		0.035 U	0.035 U	1.6 U	1.6 U	-	5.8 U	-	1.2 U	7.3 U	-	-	2.4 U	2.4 U
Chloroform (Trichloromethane)	ppb	800	8000		0.22	0.14 J	4.6 J	4.3 J	-	8.6 J	-	2.3 U	7.9 U	-	-	51	66
Chloromethane (Methyl chloride)	ppb	NC	NC		0.16 U	0.16 J	1.3 U	1.3 U	-	26 U	-	0.98 U	33 U	-	-	2.0 U	11 U
cis-1,2-Dichloroethene	ppb	370	3700		0.060 U	0.060 U	1.4 U	1.4 U	-	9.9 U	-	1.1 U	12 U	-	-	570ª	920ª
cis-1,3-Dichloropropene	ppb	NC	NC		0.074 U	0.074 U	1.6 U	1.6 U	-	12 U	-	1.2 U	15 U	-	-	2.4 U	5.1 U
Cyclohexane	ppb	NC	NC		0.23 J	0.16 J	3.9 U	3.9 U	-	6.6 U	-	3.3 J	8.3 U	-	-	5.9 U	2.8 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC		0.057 U	0.057 U	4.8 U	4.8 U	-	9.4 U	-	3.6 U	12 U	-	-	7.2 U	3.9 U
Dibromochloromethane	ppb	NC	NC		0.042 U	0.042 U	2.1 U	2.1 U	-	6.9 U	-	1.6 U	8.7 U	-	-	3.2 U	2.9 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC		0.60	0.51	3.8 U	3.8 U	-	11 U	-	2.9 U	45	-	-	5.7 U	4.7 U
Ethylbenzene	ppb	2500	25000		0.43	0.79	2.2 U	2.2 U	-	11 U	-	22	19 J	-	-	3.3 U	4.7 U
Hexachlorobutadiene	ppb	NC	NC		0.078 U	0.078 U	6.5 U	6.5 U	-	13 U	-	4.9 U	16 U	-	-	9.8 U	5.4 U
Hexane	ppb	NC	NC		0.55	0.51	2.8 U	2.8 U	-	5.3 U	-	2.0 U	6.7 U	-	-	3.9 U	2.2 U
Isopropyl alcohol	ppb	NC	NC		2.2	0.70 J	3.7 U	3.7 U	-	7.3 U	-	2.8 U	14 J	-	-	5.6 U	3.0 U
Isopropyl benzene	ppb	NC	NC		0.090 J	0.061 J	3.1 U	3.1 U	-	9.9 U	-	2.3 U	12 U	-	-	4.7 U	4.2 U
m&p-Xylenes	ppb	2000	20000		1.2	2.9	4.8 U	4.8 U	-	20 U	-	92	76	-	-	7.2 U	8.3 U
Methyl methacrylate	ppb	NC	NC		0.079 U	0.079 U	1.3 U	1.3 U	-	13 U	-	0.98 U	16 U	-	-	2.0 U	5.5 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC		0.17 U	0.17 U	1.6 U	1.6 U	-	28 U	-	1.2 U	35 U	-	-	2.4 U	12 U
Methylene chloride	ppb	NC	NC		0.32 J	0.23 J	7.7 J	6.1 J	-	7.4 U	-	100	170	-	-	6.6 J	3.1 U
Naphthalene	ppb	29	NC		0.090 U	0.090 U	8.6 UJ	8.6 UJ	-	15 U	-	6.5 UJ	19 U	-	-	13 U	6.2 U
N-Butylbenzene	ppb	NC	NC		0.046 U	0.046 U	5.5 U	5.5 U	-	7.6 UJ	-	4.1 U	9.6 U	-	-	8.3 U	3.2 U
N-Decane	ppb	NC	NC		-	1.3	-	-	-	-	-	-	-	-	-	-	-
N-Dodecane	ppb	NC	NC		-	0.25 J	-	-	-	-	-	-	-	-	-	-	-
N-Heptane	ppb	NC	NC		1.4	0.090 J	1.0 U	1.0 U	-	7.7 U	-	87	110	-	-	1.5 U	3.3 U
Nonane	ppb	NC	NC		-	0.88	-	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	ppb	NC	NC		0.056 U	0.056 U	5.0 U	5.0 U	-	9.2 U	-	3.8 U	12 U	-	-	7.5 U	3.9 U
N-Undecane	ppb	NC	NC		-	0.42 J	-	-	-	-	-	-	-	-	-	-	-
o-Xylene	ppb	2000	20000		0.37	0.83	2.2 U	2.2 U	-	10 U	-	27	26 J	-	-	3.3 U	4.2 U
Pentane	ppb	NC	NC		-	1.9	-	-	-	-	-	-	-	-	-	-	-
Styrene	ppb	NC	NC		0.058 U	0.074 J	3.0 U	3.0 U	-	9.6 U	-	12 J	46	-	-	4.5 U	4.0 U
tert-Butyl alcohol	ppb	NC	NC		0.48 J	0.19 J	7.1 U	7.1 U	-	6.3 U	-	5.3 U	7.9 U	-	-	11 U	2.6 U
tert-Butylbenzene	ppb	NC	NC		0.066 U	0.066 U	4.7 U	4.7 U	-	11 U	-	3.5 U	14 U	-	-	7.1 U	4.6 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	0.81	0.50	48	54	-	80	-	0.83 U	8.3 U	-	-	3.8 J	3.9 J
Tetrahydrofuran	ppb	NC	NC	0.063 U	0.063 U	1.8 U	1.8 U	-	10 U	-	1.4 U	13 U	-	-	2.7 U	4.4 U
Toluene	ppb	NC	NC	1.2	1.0	9.4 J	9.4 J	-	47	-	1700	2200	-	-	2.7 U	3.7 U
trans-1,2-Dichloroethene	ppb	NC	NC	0.076 J	0.089 J	3.2 U	3.2 U	-	8.2 U	-	2.4 U	10 U	-	-	70	130
trans-1,3-Dichloropropene	ppb	NC	NC	0.048 U	0.048 U	2.0 U	2.0 U	-	7.9 U	-	1.5 U	10 U	-	-	3.0 U	3.3 U
Trichloroethene	ppb	20	200	5.3	3.0	1800[ab]	1800[ab]	-	3100[ab]	-	2.3 U	7.5 U	-	-	2400[ab]	2600[ab]
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	0.28	0.27	5.5 J	4.9 J	-	7.5 J	-	2.6 U	5.0 U	-	-	5.1 U	1.7 U
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	0.069 J	0.074 J	1.0 U	1.0 U	-	5.1 U	-	0.75 U	6.4 U	-	-	1.5 U	2.1 U
Vinyl bromide (Bromoethene)	ppb	NC	NC	0.035 U	0.035 U	1.9 U	1.9 U	-	5.8 U	-	1.4 U	7.3 U	-	-	2.9 U	2.4 U
Vinyl chloride	ppb	20	200	0.071 U	0.071 U	2.9 U	2.9 U	-	12 U	-	2.2 U	15 U	-	-	4.4 U	4.9 U
Xylenes (total)	ppb	NC	NC	-	-	2.2 U	2.2 U	-	-	-	120	-	-	-	3.3 U	-
Gases																
Methane	%	0.5	0.5	-	0.19 U	-	-	-	-	-	-	1.6 U[ab]	0.17 U	-	-	-
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	-	-	0.0 / 0.0	0.0 / 0.0	-	-	-	0.2 / 0.2	-	-	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.5	0.5	0.0 / 0	0 / 0	-	-	0	0.0	0	-	0 / 0.1	0 / 0.1	0	-	0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:					*Parcel 5172 / 12 / B Overstreet*	*Parcel 5172 / 12 / B Overstreet*	*Parcel 5172 / 12 / B Overstreet*	*Parcel 5172 / 12 / A S&J*	*Parcel 5172 / 12 / A S&J*	*Parcel 5172 / 12 / A S&J*	*Parcel 5172 / 12/ A S&J*	*Parcel 5172 / 12 / B S&J*	*Parcel 5172 / 12 / B S&J*	*Parcel 5172 / 12 / B S&J*	*Parcel 5172 / 12 / B S&J*	*Parcel 5172 / 12 / C S&J*	*Parcel 5172 / 12 / C S&J*	*Parcel 5172 / 12 / C S&J*	*Parcel 5172 / 12 / D S&J*
Sample Location:					*2019 Dryden Road*	*2019 Dryden Road*	*2019 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*
Owner / Tenant:					*Overstreet Painting*	*Overstreet Painting*	*Overstreet Painting*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*
Sample ID:					*SS-38443-010612-JC-021*	*SS-38443-031512-JC-218*	-	*SS-38443-010612-JC-024*	*SS-38443-010612-JC-023*	*SS-38443-030712-JC-112*	*SS-38443-030712-JC-118*	*SS-38443-010612-JC-025*	*SS-38443-010612-JC-025*	*SS-38443-030712-JC-113*	-	*SS-38443-010612-JC-026*	*SS-38443-030712-JC-115*	-	*SS-38443-010612-JC-027*
Sample Date:					*1/6/2012*	*3/15/2012*	*8/7/2012*	*1/6/2012*	*1/6/2012*	*3/7/2012*	*3/7/2012*	*1/6/2012*	*1/9/2012*	*3/7/2012*	*8/7/2012*	*1/6/2012*	*3/7/2012*	*8/7/2012*	*1/6/2012*
									Duplicate		*Duplicate*								
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*																
Volatile Organic Compounds																			
1,1,1-Trichloroethane	ppb	NC	NC		5.2 U	6.8 U	-	3.5 U	R	2.1 U	2.1 U	9.0 U	-	6.7 U	-	0.35 U	0.38 J	-	7.4
1,1,2,2-Tetrachloroethane	ppb	NC	NC		5.9 U	14 U	-	4.0 U	R	4.3 U	4.3 U	10 U	-	14 U	-	0.40 U	0.61 U	-	1.2 U
1,1,2-Trichloroethane	ppb	NC	NC		2.8 U	12 U	-	1.9 U	R	3.8 U	3.8 U	4.9 U	-	12 U	-	0.19 U	0.54 U	-	0.57 U
1,1-Dichloroethane	ppb	160	1600		5.2 U	5.9 U	-	3.5 U	R	1.8 U	1.8 U	9.0 U	-	5.8 U	-	0.35 U	0.26 U	-	1.1 U
1,1-Dichloroethene	ppb	NC	NC		4.4 U	7.2 U	-	3.0 U	R	2.2 U	2.3 U	7.7 U	-	7.1 U	-	0.30 U	0.32 U	-	0.90 U
1,2,4-Trichlorobenzene	ppb	NC	NC		7.4 U	22 U	-	5.0 U	R	6.9 U	6.9 U	13 U	-	22 UJ	-	0.50 U	0.98 UJ	-	1.5 U
1,2,4-Trimethylbenzene	ppb	NC	NC		7.7 U	14 U	-	5.2 U	R	4.4 U	4.4 U	13 U	-	14 U	-	0.52 U	0.63 U	-	1.6 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC		2.7 U	10 U	-	1.8 U	R	3.1 U	3.1 U	4.6 U	-	9.8 U	-	0.18 U	0.44 U	-	0.54 U
1,2-Dichlorobenzene	ppb	NC	NC		7.1 U	16 U	-	4.8 U	R	4.9 U	4.9 U	12 U	-	16 U	-	0.48 U	0.70 U	-	1.4 U
1,2-Dichloroethane	ppb	NC	NC		4.6 U	11 U	-	3.1 U	R	3.3 U	3.3 U	7.9 U	-	10 U	-	0.31 U	0.47 U	-	0.93 U
1,2-Dichloroethene (total)	ppb	NC	NC		480	-	-	35	R	-	-	780	-	-	-	0.65 J	-	-	390
1,2-Dichloropropane	ppb	NC	NC		2.1 U	12 U	-	1.4 U	R	3.6 U	3.7 U	3.6 U	-	12 U	-	0.14 U	0.52 U	-	0.42 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC		4.7 U	7.2 U	-	3.2 U	R	2.2 U	2.3 U	8.2 U	-	7.1 U	-	0.32 U	0.32 U	-	0.96 U
1,3,5-Trimethylbenzene	ppb	NC	NC		7.5 U	15 UJ	-	5.1 U	R	4.6 U	4.6 U	13 U	-	14 U	-	0.51 U	0.65 U	-	1.5 U
1,3-Butadiene	ppb	NC	NC		1.5 U	14 U	-	1.0 U	R	4.5 U	4.5 U	2.6 U	-	14 U	-	0.10 U	0.64 U	-	0.30 U
1,3-Dichlorobenzene	ppb	NC	NC		6.5 U	15 U	-	4.4 U	R	4.6 U	4.6 U	11 U	-	14 U	-	0.44 U	0.65 U	-	1.3 U
1,4-Dichlorobenzene	ppb	NC	NC		6.5 U	14 U	-	4.4 U	R	4.5 U	4.5 U	11 U	-	14 U	-	0.44 U	0.64 U	-	1.3 U
1,4-Dioxane	ppb	NC	NC		13 U	18 U	-	8.8 U	R	5.6 UJ	5.7 UJ	23 U	-	18 UJ	-	0.88 U	0.80 UJ	-	2.6 U
2,2,4-Trimethylpentane	ppb	NC	NC		5.3 U	8.8 U	-	3.6 U	R	2.7 U	2.8 U	9.2 U	-	8.7 U	-	0.36 U	0.39 U	-	1.1 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC		2.5 U	45 U	-	1.7 U	R	14 UJ	14 UJ	4.4 U	-	44 UJ	-	0.97 J	2.0 UJ	-	0.51 U
2-Chlorotoluene	ppb	NC	NC		7.0 U	14 U	-	4.7 U	R	4.4 U	4.4 U	12 U	-	14 U	-	0.47 U	0.63 U	-	1.4 U
2-Hexanone	ppb	NC	NC		5.8 U	13 U	-	3.9 U	R	4.1 UJ	4.1 UJ	10 U	-	13 UJ	-	0.42 J	0.58 UJ	-	1.2 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC		7.0 U	14 U	-	4.7 U	R	4.5 U	4.5 U	12 U	-	14 U	-	0.47 U	0.64 U	-	1.4 U
4-Ethyl toluene	ppb	NC	NC		6.8 U	15 U	-	4.6 U	R	4.6 U	4.7 U	12 U	-	15 U	-	0.46 U	0.66 U	-	1.4 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC		3.8 U	10 U	-	2.6 U	R	3.2 U	3.2 U	6.7 U	-	10 UJ	-	0.26 U	0.45 UJ	-	0.78 U
Acetaldehyde	ppb	110	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC		6.7 U	320 U	-	11 J	R	98 U	99 U	41 J	-	310 U	-	2.5 J	14 U	-	2.8 J
Allyl chloride	ppb	NC	NC		2.8 U	11 U	-	1.9 U	R	3.4 U	3.4 U	4.9 U	-	11 U	-	0.19 U	0.48 U	-	0.57 U
Benzene	ppb	20	200		2.7 U	13 U	-	1.8 U	R	3.9 U	4.0 U	4.6 U	-	12 U	-	0.18 U	0.56 U	-	0.54 U
Benzyl chloride	ppb	NC	NC		6.8 U	18 U	-	4.6 U	R	5.5 U	5.5 U	12 UJ	-	17 U	-	0.46 U	0.78 U	-	1.4 U
Bromodichloromethane	ppb	NC	NC		4.1 U	10 U	-	2.8 U	R	3.1 U	3.1 U	7.2 U	-	9.8 U	-	0.28 U	0.44 U	-	0.84 U
Bromoform	ppb	NC	NC		2.8 U	11 U	-	1.9 U	R	3.4 U	3.4 U	4.9 U	-	11 U	-	0.19 U	0.48 U	-	0.57 U
Bromomethane (Methyl bromide)	ppb	NC	NC		1.8 U	7.2 U	-	1.2 U	R	2.2 U	2.3 U	3.1 U	-	7.1 U	-	0.12 U	0.32 U	-	0.36 U
Butane	ppb	NC	NC		1.6 U	14 U	-	1.1 U	R	4.5 U	4.5 U	2.8 U	-	19 J	-	0.11 U	0.64 U	-	0.33 U
Carbon disulfide	ppb	NC	NC		9.8 U	7.0 U	-	6.6 U	R	2.2 U	2.2 U	17 U	-	6.9 U	-	0.66 U	0.31 U	-	2.0 U
Carbon tetrachloride	ppb	NC	NC		4.9 U	8.6 UJ	-	3.3 U	R	2.7 U	2.7 U	8.4 U	-	8.4 U	-	0.33 U	0.38 U	-	0.99 U
Chlorobenzene	ppb	NC	NC		3.0 U	11 U	-	2.0 U	R	3.4 U	3.5 U	5.1 U	-	11 U	-	0.20 U	0.49 U	-	0.60 U
Chlorodifluoromethane	ppb	NC	NC		5.0 U	8.4 U	-	3.4 U	R	2.6 U	2.6 U	8.7 U	-	18 J	-	0.34 U	0.94 J	-	1.0 U
Chloroethane	ppb	NC	NC		2.4 U	7.9 U	-	1.6 U	R	2.5 U	2.5 U	4.1 U	-	7.8 U	-	0.16 U	0.35 U	-	0.48 U
Chloroform (Trichloromethane)	ppb	800	8000		71	110	-	8.8 J	R	9.5 J	9.7 J	25 J	-	32 J	-	0.79 J	0.70 J	-	24
Chloromethane (Methyl chloride)	ppb	NC	NC		1.9 U	36 U	-	1.3 U	R	11 U	11 U	3.3 U	-	36 U	-	0.13 U	1.6 U	-	0.39 U
cis-1,2-Dichloroethene	ppb	370	3700		440*	770*	-	26	R	23	24	570*	-	530*	-	0.65 J	0.60 U	-	240
cis-1,3-Dichloropropene	ppb	NC	NC		2.4 U	17 U	-	1.6 U	R	5.2 U	5.2 U	4.1 U	-	16 U	-	0.16 U	0.74 U	-	0.48 U
Cyclohexane	ppb	NC	NC		5.8 U	9.1 U	-	3.9 U	R	2.8 U	2.8 U	10 U	-	8.9 U	-	0.39 U	0.40 U	-	1.2 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC		7.1 U	13 U	-	4.8 U	R	4.0 U	4.0 U	12 U	-	13 U	-	0.48 U	0.57 U	-	1.4 U
Dibromochloromethane	ppb	NC	NC		3.1 U	9.5 U	-	2.1 U	R	2.9 U	3.0 U	5.4 U	-	9.3 U	-	0.21 U	0.42 U	-	0.63 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC		5.6 U	15 U	-	3.8 U	R	4.8 U	4.8 U	9.7 U	-	15 U	-	0.63 J	0.68 U	-	1.1 U
Ethylbenzene	ppb	2500	25000		3.3 U	15 U	-	2.2 U	R	4.8 U	4.8 U	5.6 U	-	15 U	-	0.22 U	0.68 U	-	0.66 U
Hexachlorobutadiene	ppb	NC	NC		9.6 U	18 U	-	6.5 U	R	5.5 U	5.5 U	17 U	-	17 UJ	-	0.65 U	0.78 UJ	-	2.0 U
Hexane	ppb	NC	NC		3.8 U	7.2 U	-	2.6 U	R	2.2 U	2.3 U	6.7 U	-	7.1 U	-	0.26 U	0.32 U	-	0.78 U
Isopropyl alcohol	ppb	NC	NC		5.5 U	10 U	-	3.7 U	R	3.1 UJ	3.1 UJ	9.5 U	-	9.8 UJ	-	1.5 J	0.76 J	-	1.1 U
Isopropyl benzene	ppb	NC	NC		4.6 U	14 U	-	3.1 U	R	4.2 U	4.2 U	7.9 U	-	13 U	-	0.31 U	0.60 U	-	0.93 U
m&p-Xylenes	ppb	2000	20000		7.1 U	27 U	-	4.8 U	R	8.4 U	8.5 U	12 U	-	27 U	-	0.48 U	1.2 U	-	1.4 U
Methyl methacrylate	ppb	NC	NC		1.9 U	18 U	-	1.3 U	R	5.5 U	5.6 U	3.3 U	-	18 U	-	0.13 U	0.79 U	-	0.39 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC		2.4 U	38 U	-	1.6 U	R	12 U	12 U	4.1 U	-	38 U	-	0.16 U	1.7 U	-	0.48 U
Methylene chloride	ppb	NC	NC		6.3 J	10 U	-	4.0 J	R	4.9 J	5.3 J	12 U	-	19 J	-	0.43 J	0.80 J	-	1.4 J
Naphthalene	ppb	29	NC		13 U	20 U	-	8.6 U	R	6.3 U	6.4 U	22 UJ	-	20 UJ	-	0.86 U	0.90 UJ	-	2.6 U
N-Butylbenzene	ppb	NC	NC		8.1 U	10 U	-	5.5 U	R	3.2 U	3.2 U	14 U	-	10 U	-	0.55 U	0.46 U	-	1.7 U
N-Decane	ppb	NC	NC		-	-	-	-	-	-	-	-	-	12 U	-	-	-	-	-
N-Dodecane	ppb	NC	NC		-	-	-	-	-	-	-	-	-	17 UJ	-	-	-	-	-
N-Heptane	ppb	NC	NC		1.5 U	11 U	-	1.0 U	R	3.3 U	3.3 U	2.6 U	-	10 U	-	0.10 U	0.47 U	-	0.30 U
Nonane	ppb	NC	NC		-	-	-	-	-	-	-	-	-	9.6 U	-	-	-	-	-
N-Propylbenzene	ppb	NC	NC		7.4 U	13 U	-	5.0 U	R	3.9 U	4.0 U	13 U	-	12 U	-	0.50 U	0.56 U	-	1.5 U
N-Undecane	ppb	NC	NC		-	-	-	-	-	-	-	-	-	14 UJ	-	-	-	-	-
Octane	ppb	NC	NC		-	-	-	-	-	-	-	-	-	8.0 U	-	-	-	-	-
o-Xylene	ppb	2000	20000		3.3 U	14 U	-	2.2 U	R	4.3 U	4.3 U	5.6 U	-	14 U	-	0.22 U	0.61 U	-	0.66 U
Pentane	ppb	NC	NC		-	-	-	-	-	-	-	-	-	13 U	-	-	-	-	-
Styrene	ppb	NC	NC		4.4 U	13 U	-	3.0 U	R	4.1 U	4.1 U	7.7 U	-	13 U	-	0.30 U	0.58 U	-	0.90 U
tert-Butyl alcohol	ppb	NC	NC		11 U	8.6 U	-	7.1 U	R	2.7 U	2.7 U	18 U	-	8.4 U	-	0.71 U	0.38 U	-	2.1 U
tert-Butylbenzene	ppb	NC	NC		7.0 U	15 U	-	4.7 U	R	4.6 U	4.7 U	12 U	-	15 U	-	0.47 U	0.66 U	-	1.4 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	4.9 J	9.8 J	-	5.8 J	R	6.9 J	7.0 J	9.2 J	-	10 J	-	28	23	-	3.5 J
Tetrahydrofuran	ppb	NC	NC	2.7 U	14 U	-	1.8 U	R	4.4 U	4.4 U	4.6 U	-	14 U	-	0.18 U	0.63 U	-	0.54 U
Toluene	ppb	NC	NC	2.7 U	12 U	-	1.8 U	R	3.8 U	3.8 U	4.6 U	-	12 U	-	4.6	0.54 U	-	5.5 J
trans-1,2-Dichloroethene	ppb	NC	NC	41	82	-	8.8 J	R	6.5 J	6.7 J	210	-	200	-	0.32 U	0.50 U	-	150
trans-1,3-Dichloropropene	ppb	NC	NC	3.0 U	11 U	-	2.0 U	R	3.4 U	3.4 U	5.1 U	-	11 U	-	0.20 U	0.48 U	-	0.60 U
Trichloroethene	ppb	20	200	2800[ab]	5400[ab]	-	1300[ab]	R	1400[ab]	1400[ab]	5600[ab]	-	5600[ab]	-	230[ab]	180[a]	-	1200[ab]
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	5.0 U	5.4 U	-	3.4 U	R	1.7 U	1.7 U	8.7 U	-	5.3 U	-	0.34 U	0.29 J	-	1.0 U
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	1.5 U	7.0 U	-	1.0 U	R	2.2 U	2.2 U	2.6 U	-	6.9 U	-	0.10 U	0.31 U	-	0.30 U
Vinyl bromide (Bromoethene)	ppb	NC	NC	2.8 U	7.9 U	-	1.9 U	R	2.5 U	2.5 U	4.9 U	-	7.8 U	-	0.19 U	0.35 U	-	0.57 U
Vinyl chloride	ppb	20	200	4.3 U	16 U	-	2.9 U	R	5.0 U	5.0 U	7.4 U	-	16 U	-	0.29 U	0.71 U	-	0.87 U
Xylenes (total)	ppb	NC	NC	3.3 U	-	-	2.2 U	R	-	-	5.6 U	-	-	-	0.22 U	-	-	0.66 U
Gases																		
Methane	%	0.5	0.5	-	-	-	-	-	0.16 U	0.17 U	-	-	0.17 U	-	-	0.18 U	-	-
Field Parameter																		
Methane, field (unfiltered)	%	0.5	0.5	0.0 / 0.0	-	-	0.0 / 0.0	0.0 / 0.0	-	-	0.0 / 0.0	0.0 / 0.0	-	-	0.0 / 0.0	-	-	0.0 / 0.0
Methane, field (filtered)	%	0.5	0.5	-	0.0 / 0	0	-	-	0.0 / 0	0 / 0.0	-	-	0.0 / 0	0	-	0.0 / 0	0	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5172 / 12 / D S&J*	*Parcel 5172 / 12 / D S&J*	*Parcel 5172, Bldg 14, Probe A*	*Parcel 5172, Bldg 14, Probe A*	*Parcel 5172, Bldg 14, Probe A*	*Parcel 5172, Bldg 14, Probe A*	*Parcel 5172, Bldg 14, Probe A*	*Parcel 5172, Bldg 14, Probe A*	*Parcel 5172, Bldg 14, Probe B*	*Parcel 5172, Bldg 14, Probe B*	*Parcel 5172, Bldg 14, Probe B*	*Parcel 5172, Bldg 14, Probe B*	*Parcel 5172, Bldg 14, Probe C*
Sample Location:				*2015 Dryden Road*	*2015 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*
Owner / Tenant:				*S&J Precision*	*S&J Precision*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*
Sample ID:				*SS-38443-030712-JC-117*	-	*SS-38443-010612-JC-018*	*SS-38443-010612-JC-017*	*SS-38443-032812-JC-225*	*SS-38443-080212-GL-030*	*SS-38443-080212-GL-031*	*SS-38443-080212-GL-031*	*SS-38443-010612-JC-019*	*SS-38443-032712-JC-227*	*SS-38443-032712-JC-227*	*SS-38443-080212-GL-033*	*SS-38443-010612-JC-020*
Sample Date:				*3/7/2012*	*8/7/2012*	*1/6/2012*	*1/6/2012*	*3/28/2012*	*8/2/2012*	*8/2/2012*	*8/2/2012*	*1/6/2012*	*3/26/2012*	*3/27/2012*	*8/2/2012*	*1/6/2012*
							Duplicate				*Duplicate*					
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	8.5 J	-	0.70 U	0.83 U	1.0 U	6.1 U	-	-	0.28 U	-	0.056 J	0.12 J	0.18 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	4.6 U	-	0.80 U	0.95 U	2.1 U	12 U	-	-	0.32 U	-	0.061 U	0.12 U	0.16 U
1,1,2-Trichloroethane	ppb	NC	NC	4.1 U	-	0.38 U	0.45 U	1.9 U	11 U	-	-	0.15 U	-	0.054 U	0.11 U	0.076 U
1,1-Dichloroethane	ppb	160	1600	2.0 U	-	500[a]	320[a]	970[a]	4100[ab]	-	-	54	-	77	130	0.14 U
1,1-Dichloroethene	ppb	NC	NC	2.4 U	-	0.60 U	0.71 U	3.0 J	25 J	-	-	0.24 U	-	0.054 J	0.12 J	0.12 U
1,2,4-Trichlorobenzene	ppb	NC	NC	7.4 U	-	1.0 U	1.2 U	3.4 U	20 UJ	-	-	0.40 U	-	0.098 U	0.20 U	0.20 U
1,2,4-Trimethylbenzene	ppb	NC	NC	4.8 U	-	1.0 U	1.2 U	2.2 U	13 U	-	-	4.8	-	0.063 U	0.13 U	0.21 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	3.3 U	-	0.36 U	0.43 U	1.5 U	8.9 U	-	-	0.14 U	-	0.044 U	0.088 U	0.072 U
1,2-Dichlorobenzene	ppb	NC	NC	5.3 U	-	0.96 U	1.1 U	2.4 U	14 U	-	-	0.38 U	-	0.070 U	0.14 U	0.19 U
1,2-Dichloroethane	ppb	NC	NC	3.6 U	-	0.62 U	0.74 U	1.6 U	9.5 U	-	-	0.25 U	-	0.047 U	0.094 U	0.12 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	4.9	3.1 J	-	-	-	-	0.43 J	-	-	-	0.056 U
1,2-Dichloropropane	ppb	NC	NC	3.9 U	-	0.28 U	0.33 U	1.8 U	11 U	-	-	0.11 U	-	0.052 U	0.10 U	0.056 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	2.4 U	-	0.64 U	0.76 U	2.1 J	6.5 U	-	-	1.9	-	0.48	0.62	0.13 U
1,3,5-Trimethylbenzene	ppb	NC	NC	4.9 U	-	1.0 U	1.2 U	2.2 UJ	13 U	-	-	1.9	-	0.065 UJ	0.13 U	0.20 U
1,3-Butadiene	ppb	NC	NC	4.9 U	-	0.20 U	0.24 U	2.2 UJ	13 U	-	-	0.080 U	-	0.064 U	0.13 U	0.040 U
1,3-Dichlorobenzene	ppb	NC	NC	4.9 U	-	0.88 U	1.0 U	2.2 U	13 U	-	-	0.35 U	-	0.065 U	0.13 U	0.18 U
1,4-Dichlorobenzene	ppb	NC	NC	4.9 U	-	0.88 U	1.0 U	2.2 U	13 U	-	-	0.35 U	-	0.064 U	0.13 U	0.18 U
1,4-Dioxane	ppb	NC	NC	6.1 UJ	-	1.8 U	2.1 U	2.8 U	16 U	-	-	0.70 U	-	0.080 U	0.16 U	0.35 U
2,2,4-Trimethylpentane	ppb	NC	NC	3.0 U	-	0.72 U	0.86 U	22	98 J	-	-	0.29 U	-	0.18 J	0.078 U	0.14 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	15 UJ	-	8.2 J	7.7 J	6.9 U	40 U	-	-	0.14 U	-	0.76 J	0.68 J	0.068 U
2-Chlorotoluene	ppb	NC	NC	4.8 U	-	0.94 U	1.1 U	2.2 U	13 U	-	-	0.38 U	-	0.063 U	0.13 U	0.19 U
2-Hexanone	ppb	NC	NC	4.4 UJ	-	0.78 U	0.93 U	2.0 U	12 U	-	-	0.31 U	-	0.058 U	0.12 U	0.16 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	4.9 U	-	0.94 U	1.1 U	2.2 U	13 U	-	-	0.38 U	-	0.064 U	0.13 U	0.19 U
4-Ethyl toluene	ppb	NC	NC	5.0 U	-	0.92 U	1.1 U	2.3 U	13 U	-	-	0.81 J	-	0.066 U	0.13 U	0.18 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	3.4 U	-	0.52 U	0.62 U	3.9 J	9.1 U	-	-	0.21 U	-	0.045 U	0.090 U	0.10 U
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	110 U	-	0.90 U	17 J	48 U	280 U	-	-	2.5 J	-	4.0 J	4.4 J	1.3 J
Allyl chloride	ppb	NC	NC	3.6 U	-	0.38 U	0.45 U	1.7 U	9.7 U	-	-	0.15 U	-	0.048 U	0.096 U	0.076 U
Benzene	ppb	20	200	4.2 U	-	1.9 J	1.8 J	6.0 J	50[a]	-	-	0.14 U	-	0.077 J	0.11 U	0.072 U
Benzyl chloride	ppb	NC	NC	5.9 U	-	0.92 U	1.1 U	2.7 U	16 U	-	-	0.37 UJ	-	0.078 U	0.16 U	0.18 U
Bromodichloromethane	ppb	NC	NC	3.3 U	-	0.56 U	0.67 U	1.5 U	8.9 U	-	-	0.22 U	-	0.11 J	0.20 J	0.11 U
Bromoform	ppb	NC	NC	3.6 U	-	0.38 U	0.45 U	1.7 U	9.7 U	-	-	0.15 U	-	0.048 U	0.096 U	0.076 U
Bromomethane (Methyl bromide)	ppb	NC	NC	2.4 U	-	0.24 U	0.29 U	1.1 U	6.5 U	-	-	0.096 U	-	0.032 U	0.064 U	0.048 U
Butane	ppb	NC	NC	4.9 U	-	180	150	920 J	3700	-	-	0.088 U	-	1.2	0.78 J	0.044 U
Carbon disulfide	ppb	NC	NC	2.4 U	-	16	14	25	45 J	-	-	0.53 U	-	0.11 J	0.11 J	0.26 U
Carbon tetrachloride	ppb	NC	NC	2.9 U	-	0.66 U	0.79 U	1.3 UJ	7.7 U	-	-	0.26 U	-	0.038 UJ	0.076 U	0.13 U
Chlorobenzene	ppb	NC	NC	3.7 U	-	0.40 U	0.48 U	1.7 U	9.9 U	-	-	0.16 U	-	0.049 U	0.098 U	0.080 U
Chlorodifluoromethane	ppb	NC	NC	2.8 U	-	2.9 J	2.7 J	9.1	23 J	-	-	0.27 U	-	0.84	1.8	0.14 U
Chloroethane	ppb	NC	NC	2.7 U	-	0.32 U	0.38 U	1.2 U	7.1 U	-	-	0.13 U	-	0.11 J	0.50	0.064 U
Chloroform (Trichloromethane)	ppb	800	8000	23	-	0.62 U	0.74 U	1.3 U	7.7 U	-	-	0.93 J	-	1.1	3.0	0.12 U
Chloromethane (Methyl chloride)	ppb	NC	NC	12 U	-	0.26 U	0.31 U	5.5 UJ	32 U	-	-	0.10 U	-	0.16 U	0.32 U	0.052 U
cis-1,2-Dichloroethene	ppb	370	3700	200	-	2.6 J	1.5 J	6.9	110	-	-	0.43 J	-	0.97	2.2	0.056 U
cis-1,3-Dichloropropene	ppb	NC	NC	5.6 U	-	0.32 U	0.38 U	2.6 U	15 U	-	-	0.13 U	-	0.074 U	0.15 U	0.064 U
Cyclohexane	ppb	NC	NC	3.0 U	-	5.0	3.8 J	19	150	-	-	0.31 U	-	0.27 J	0.080 U	0.16 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	4.3 U	-	0.96 U	1.1 U	2.0 U	12 U	-	-	0.38 U	-	0.057 U	0.11 U	0.19 U
Dibromochloromethane	ppb	NC	NC	3.2 U	-	0.42 U	0.50 U	1.5 U	8.5 U	-	-	0.17 U	-	0.042 U	0.084 U	0.084 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	5.2 U	-	3.1 J	2.8 J	3.6 J	14 U	-	-	1.2 J	-	1.1	0.77	0.50 J
Ethylbenzene	ppb	2500	25000	5.2 U	-	0.44 U	0.52 U	2.4 U	14 U	-	-	1.2 J	-	0.068 U	0.14 U	0.088 U
Hexachlorobutadiene	ppb	NC	NC	5.9 U	-	1.3 U	1.5 U	2.7 U	16 UJ	-	-	0.52 U	-	0.078 U	0.16 U	0.36 J
Hexane	ppb	NC	NC	2.4 U	-	6.4	4.7 J	29	250	-	-	0.21 U	-	0.32 J	0.15 J	0.10 U
Isopropyl alcohol	ppb	NC	NC	3.3 UJ	-	0.74 U	0.88 U	5.3 J	8.9 U	-	-	0.30 U	-	2.5	0.45 J	1.6 J
Isopropyl benzene	ppb	NC	NC	4.6 U	-	0.82 U	0.74 U	2.1 U	12 U	-	-	0.25 U	-	0.060 U	0.12 U	0.12 U
m&p-Xylenes	ppb	2000	20000	9.1 U	-	0.96 U	1.1 U	4.2 U	24 U	-	-	7.1	-	0.20	0.32 J	0.19 U
Methyl methacrylate	ppb	NC	NC	6.0 U	-	0.26 U	0.31 U	2.7 U	16 U	-	-	0.10 U	-	0.079 U	0.16 U	0.052 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	13 U	-	0.32 U	0.38 U	5.9 U	34 U	-	-	0.13 U	-	0.17 U	0.34 U	0.064 U
Methylene chloride	ppb	NC	NC	5.5 J	-	1.0 J	1.1 J	1.6 U	9.1 U	-	-	0.10 U	-	0.045 U	0.090 U	0.17 J
Naphthalene	ppb	29	NC	6.8 U	-	1.7 U	2.0 U	3.1 U	18 UJ	-	-	0.69 UJ	-	0.090 U	0.18 U	0.34 U
N-Butylbenzene	ppb	NC	NC	3.5 U	-	1.1 U	1.3 U	1.6 U	9.3 U	-	-	0.44 U	-	0.046 UJ	0.092 U	0.22 U
N-Decane	ppb	NC	NC	4.2 U	-	-	-	-	11 U	-	-	-	-	-	0.11 U	-
N-Dodecane	ppb	NC	NC	5.9 UJ	-	-	-	-	16 UJ	-	-	-	-	-	0.16 U	-
N-Heptane	ppb	NC	NC	3.6 U	-	0.20 U	0.24 U	2.4 J	31 J	-	-	0.080 U	-	0.10 J	0.094 U	0.040 U
Nonane	ppb	NC	NC	3.3 U	-	-	-	-	8.7 U	-	-	-	-	-	0.086 U	-
N-Propylbenzene	ppb	NC	NC	4.2 U	-	1.0 U	1.2 U	1.9 U	11 U	-	-	0.43 J	-	0.056 U	0.11 U	0.20 U
N-Undecane	ppb	NC	NC	4.7 UJ	-	-	-	-	13 U	-	-	-	-	-	0.12 U	-
Octane	ppb	NC	NC	2.7 U	-	-	-	-	7.3 U	-	-	-	-	-	0.072 U	-
o-Xylene	ppb	2000	20000	4.6 U	-	0.44 U	0.52 U	2.2 J	12 U	-	-	3.9	-	0.084 J	0.15 J	0.088 U
Pentane	ppb	NC	NC	4.6 U	-	-	-	-	1300	-	-	-	-	-	0.12 U	-
Styrene	ppb	NC	NC	4.4 U	-	0.60 U	0.71 U	2.0 U	12 U	-	-	0.24 U	-	0.058 U	0.12 U	0.12 U
tert-Butyl alcohol	ppb	NC	NC	2.9 U	-	1.4 U	1.7 U	1.9 J	7.7 U	-	-	0.57 U	-	3.9	0.19 J	0.28 U
tert-Butylbenzene	ppb	NC	NC	5.0 U	-	0.94 U	1.1 U	2.3 U	13 U	-	-	0.38 U	-	0.066 U	0.13 U	0.19 U

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250		2500	3.2 J	-	0.22 U	0.26 U	1.4 U	8.1 U	-	-	0.088 U	-	0.41	1.0	0.11 J
Tetrahydrofuran	ppb		NC	NC	4.8 U	-	0.36 U	0.43 U	2.2 U	13 U	-	-	0.14 U	-	0.73 J	0.13 U	0.072 U
Toluene	ppb		NC	NC	4.1 U	-	0.69 J	0.78 J	3.2 J	11 J	-	-	0.98 J	-	1.4	0.39 J	0.28 J
trans-1,2-Dichloroethene	ppb		NC	NC	110	-	2.2 J	1.6 J	5.3 J	35 J	-	-	0.26 U	-	0.050 U	0.10 U	0.13 U
trans-1,3-Dichloropropene	ppb		NC	NC	3.6 U	-	0.40 U	0.48 U	1.7 U	9.7 U	-	-	0.16 U	-	0.048 U	0.096 U	0.080 U
Trichloroethene	ppb	20		200	940[ab]	-	2.1 J	1.5 J	6.4 J	36 J[a]	-	-	3.5	-	4.7	16	2.5
Trichlorofluoromethane (CFC-11)	ppb		NC	NC	1.8 U	-	0.68 U	0.81 U	0.83 U	4.9 U	-	-	0.27 U	-	0.089 J	0.30 J	0.29 J
Trifluorotrichloroethane (Freon 113)	ppb		NC	NC	2.4 U	-	0.20 U	0.24 U	1.1 U	6.3 U	-	-	0.080 U	-	0.067 J	0.68	0.31 J
Vinyl bromide (Bromoethene)	ppb		NC	NC	2.7 U	-	0.38 U	0.45 U	1.2 U	7.1 U	-	-	0.15 U	-	0.035 U	0.070 U	0.076 U
Vinyl chloride	ppb	20		200	5.4 U	-	84[a]	70[a]	820 J[ab]	5500[ab]	-	-	0.23 U	-	0.071 U	0.14 U	0.12 U
Xylenes (total)	ppb		NC	NC	-	-	0.44 U	0.52 U	-	-	-	-	11	-	-	-	0.088 U
Gases																	
Methane	%	0.5		0.5	0.18 U	-	-	-	-	0.19 U	0.19 U	-	-	-	-	0.20 U	0.066 U
Field Parameter																	
Methane, field (unfiltered)	%	0.5		0.5	-	-	0.0 / 0.0	0.0 / 0.0	-	-	-	-	0.0 / 0.0	-	-	-	0.0 / 0.0
Methane, field (filtered)	%	0.5		0.5	0.0 / 0	0	-	-	0.0 / 0	0.2 / 0.3	-	0.3 / 0.2	-	0	0.0	0 / 0	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5172, Bldg 14, Probe C*	*Parcel 5172, Bldg 14, Probe C*	*Parcel 5172, Bldg 14, Probe C*	*Parcel 5172, Bldg 13, Probe A*	*Parcel 5172, Bldg 13, Probe A*	*Parcel 5172, Bldg 13, Probe A*	*Parcel 5173, Bldg 15, Probe A*	*Parcel 5173, Bldg 15, Probe A*	*Parcel 5173, Bldg 15, Probe A*	*Parcel 5173, Bldg 15, Probe B*	*Parcel 5173, Bldg 15, Probe B*	*Parcel 5173, Bldg 15, Probe B*	*Parcel 5173, Bldg 15, Probe C*
Sample Location:				*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2019 Dryden Road*	*2019 Dryden Road*	*2019 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*
Owner / Tenant:				*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Overstreet Painting*	*Overstreet Painting*	*Overstreet Painting*	*SIM Trainer*	*SIM Trainer*	*SIM Trainer*	*SIM Trainer*	*SIM Trainer*	*SIM Trainer*	*SIM Trainer*
Sample ID:				*SS-38443-032712-JC-229*	*SS-38443-032712-JC-229*	*SS-38443-080212-GL-035*	*SS-38443-010912-JC-042*	*SS-38443-010912-JC-042*	*SS-38443-031512-JC-221*	*SS-38443-011212-JC-074*	*SS-38443-031312-JC-176*	-	*SS-38443-011212-JC-071*	*SS-38443-031312-JC-178*	-	*SS-38443-011212-JC-072*
Sample Date:				*3/2/2012*	*3/27/2012*	*8/2/2012*	*1/9/2012*	*1/10/2012*	*3/15/2012*	*1/12/2012*	*3/13/2012*	*8/7/2012*	*1/12/2012*	*3/13/2012*	*8/7/2012*	*1/12/2012*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	-	0.29	0.34	0.48 U	-	1.1 U	0.60 U	1.1 U	-	1.1 U	1.4 U	-	R
1,1,2,2-Tetrachloroethane	ppb	NC	NC	-	0.061 U	0.061 U	0.55 U	-	2.2 U	0.68 U	2.2 U	-	1.2 U	2.9 U	-	R
1,1,2-Trichloroethane	ppb	NC	NC	-	0.054 U	0.054 U	0.26 U	-	1.9 U	0.32 U	1.9 U	-	0.58 U	2.5 U	-	R
1,1-Dichloroethane	ppb	160	1600	-	0.071 J	0.026 U	2.3 J	-	6.5 J	0.60 U	0.93 U	-	1.1 U	1.2 U	-	R
1,1-Dichloroethene	ppb	NC	NC	-	0.032 U	0.032 U	0.41 U	-	1.1 U	0.51 U	1.1 U	-	0.91 U	1.5 U	-	R
1,2,4-Trichlorobenzene	ppb	NC	NC	-	0.098 U	0.098 UJ	0.69 U	-	3.5 U	0.86 U	3.5 U	-	1.5 U	4.6 U	-	R
1,2,4-Trimethylbenzene	ppb	NC	NC	-	0.063 U	0.063 U	0.72 U	-	2.2 U	0.89 U	2.2 U	-	1.6 U	3.0 U	-	R
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	-	0.044 U	0.044 U	0.25 U	-	1.6 U	0.31 U	1.6 U	-	0.55 U	2.1 U	-	R
1,2-Dichlorobenzene	ppb	NC	NC	-	0.070 U	0.070 U	0.66 U	-	2.5 U	0.82 U	2.5 U	-	1.5 U	3.3 U	-	R
1,2-Dichloroethane	ppb	NC	NC	-	0.047 U	0.047 U	0.43 U	-	1.7 U	0.53 U	1.7 U	-	0.94 U	2.2 U	-	R
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	15	-	-	2.7 J	-	-	130	-	-	R
1,2-Dichloropropane	ppb	NC	NC	-	0.052 U	0.052 U	0.19 U	-	1.9 U	0.24 U	1.9 U	-	0.43 U	2.4 U	-	R
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	-	0.032 U	0.032 U	0.44 U	-	1.1 U	0.55 U	1.1 U	-	0.97 U	1.5 U	-	R
1,3,5-Trimethylbenzene	ppb	NC	NC	-	0.065 UJ	0.065 U	0.70 U	-	2.3 UJ	0.87 U	2.3 U	-	1.6 U	3.1 U	-	R
1,3-Butadiene	ppb	NC	NC	-	0.064 U	0.064 U	0.14 U	-	2.3 U	0.17 U	2.3 U	-	0.30 U	3.0 U	-	R
1,3-Dichlorobenzene	ppb	NC	NC	-	0.065 U	0.065 U	0.61 U	-	2.3 U	0.75 U	2.3 U	-	1.3 U	3.1 U	-	R
1,4-Dichlorobenzene	ppb	NC	NC	-	0.064 U	0.064 U	0.61 U	-	2.3 U	0.75 U	2.3 UJ	-	1.3 U	3.0 UJ	-	R
1,4-Dioxane	ppb	NC	NC	-	0.080 U	0.080 U	1.2 U	-	2.9 U	1.5 U	2.8 U	-	2.7 U	3.8 U	-	R
2,2,4-Trimethylpentane	ppb	NC	NC	-	0.039 U	0.039 U	0.50 U	-	1.4 U	0.62 U	1.4 U	-	1.1 U	7.9 J	-	R
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	-	0.24 J	0.36 J	0.23 U	-	7.1 U	0.29 U	7.1 U	-	0.52 U	9.4 U	-	R
2-Chlorotoluene	ppb	NC	NC	-	0.063 U	0.063 U	0.65 U	-	2.2 U	0.80 U	2.2 U	-	1.4 U	3.0 U	-	R
2-Hexanone	ppb	NC	NC	-	0.058 U	0.058 U	0.54 U	-	2.1 U	0.67 U	2.1 U	-	1.2 U	2.7 U	-	R
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	-	0.064 U	0.064 U	0.65 U	-	2.3 U	0.80 U	2.3 U	-	1.4 U	3.0 U	-	R
4-Ethyl toluene	ppb	NC	NC	-	0.066 U	0.066 U	0.63 U	-	2.4 U	0.79 U	2.3 U	-	1.4 U	3.1 U	-	R
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	-	0.045 U	0.045 U	0.36 U	-	1.6 U	0.44 U	1.6 U	-	0.79 U	2.1 U	-	R
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	-	2.0 J	2.9 J	11 J	-	50 U	1.5 J	50 U	-	1.4 U	66 U	-	R
Allyl chloride	ppb	NC	NC	-	0.048 U	0.048 U	0.26 U	-	1.7 U	0.32 U	1.7 U	-	0.58 U	2.3 U	-	R
Benzene	ppb	20	200	-	0.056 U	0.056 U	0.25 U	-	2.0 U	0.31 U	2.0 U	-	0.55 U	2.6 U	-	R
Benzyl chloride	ppb	NC	NC	-	0.078 U	0.078 U	0.63 UJ	-	2.8 U	0.79 UJ	2.8 U	-	1.4 UJ	3.7 U	-	R
Bromodichloromethane	ppb	NC	NC	-	0.044 U	0.044 U	0.39 U	-	1.6 U	0.48 U	1.6 U	-	0.85 U	2.1 U	-	R
Bromoform	ppb	NC	NC	-	0.048 U	0.048 U	0.26 U	-	1.7 U	0.32 U	1.7 U	-	0.58 UJ	2.3 U	-	R
Bromomethane (Methyl bromide)	ppb	NC	NC	-	0.032 U	0.032 U	0.17 U	-	1.1 U	0.21 U	1.1 U	-	0.36 U	1.5 U	-	R
Butane	ppb	NC	NC	-	0.46	0.13 J	0.15 U	-	2.3 U	2.2 J	2.3 UJ	-	0.33 U	3.0 UJ	-	R
Carbon disulfide	ppb	NC	NC	-	0.031 U	0.058 J	0.91 U	-	1.1 U	1.1 U	1.1 U	-	2.0 U	1.5 U	-	R
Carbon tetrachloride	ppb	NC	NC	-	0.070 J	0.075 J	0.46 U	-	1.4 UJ	0.56 U	1.4 U	-	1.0 U	1.8 U	-	R
Chlorobenzene	ppb	NC	NC	-	0.049 U	0.049 U	0.28 U	-	1.7 U	0.34 U	1.7 U	-	0.61 U	2.3 U	-	R
Chlorodifluoromethane	ppb	NC	NC	-	0.32	0.40	0.47 U	-	2.7 J	0.58 U	3.4 J	-	1.0 U	2.7 J	-	R
Chloroethane	ppb	NC	NC	-	0.035 U	0.080 J	0.22 U	-	1.2 U	0.27 U	1.2 U	-	0.49 U	1.6 U	-	R
Chloroform (Trichloromethane)	ppb	800	8000	-	0.043 J	0.097 J	0.70 J	-	2.2 J	0.53 U	1.4 U	-	8.5	12	-	R
Chloromethane (Methyl chloride)	ppb	NC	NC	-	0.16 U	0.61	0.18 U	-	5.7 U	0.22 U	5.7 U	-	0.40 U	7.5 U	-	R
cis-1,2-Dichloroethene	ppb	370	3700	-	0.060 U	0.060 U	15	-	49	2.7 J	2.1 U	-	86	130	-	R
cis-1,3-Dichloropropene	ppb	NC	NC	-	0.074 U	0.074 U	0.22 U	-	2.6 U	0.27 U	2.6 U	-	0.49 U	3.5 U	-	R
Cyclohexane	ppb	NC	NC	-	0.39 J	0.040 U	0.54 U	-	1.4 U	0.67 U	1.4 U	-	1.2 U	1.9 U	-	R
Cymene (p-Isopropyltoluene)	ppb	NC	NC	-	0.057 U	0.057 U	0.66 U	-	2.0 U	0.82 U	2.0 U	-	1.5 U	2.7 U	-	R
Dibromochloromethane	ppb	NC	NC	-	0.042 U	0.042 U	0.29 U	-	1.5 U	0.36 U	1.5 U	-	0.64 U	2.0 U	-	R
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	-	0.51	0.48	0.57 J	-	2.4 U	0.65 U	2.4 U	-	1.2 U	3.2 U	-	R
Ethylbenzene	ppb	2500	25000	-	0.068 U	0.068 U	0.30 U	-	2.4 U	0.38 U	2.4 U	-	0.67 U	3.2 U	-	R
Hexachlorobutadiene	ppb	NC	NC	-	0.078 U	0.078 UJ	0.90 U	-	2.8 U	1.1 U	2.8 U	-	2.0 U	3.7 U	-	R
Hexane	ppb	NC	NC	-	0.94	0.049 J	0.36 U	-	1.1 U	0.52 J	1.1 U	-	0.79 U	1.9 J	-	R
Isopropyl alcohol	ppb	NC	NC	-	2.3	0.11 J	0.51 U	-	2.2 J	0.63 U	3.9 J	-	1.1 U	4.6 J	-	R
Isopropyl benzene	ppb	NC	NC	-	0.060 U	0.060 U	0.43 U	-	2.1 U	0.53 U	2.1 U	-	0.94 U	2.8 U	-	R
m&p-Xylenes	ppb	2000	20000	-	0.12 U	0.12 U	0.66 U	-	4.3 U	0.82 U	4.3 U	-	1.5 U	5.6 U	-	R
Methyl methacrylate	ppb	NC	NC	-	0.079 U	0.079 U	0.18 U	-	2.8 U	0.22 U	2.8 U	-	0.40 U	3.7 U	-	R
Methyl tert butyl ether (MTBE)	ppb	NC	NC	-	0.17 U	0.17 U	0.22 U	-	6.1 U	0.27 U	6.1 U	-	0.49 U	8.0 U	-	R
Methylene chloride	ppb	NC	NC	-	0.045 U	0.045 U	0.81 U	-	1.6 U	0.84 J	4.2 J	-	1.4 U	7.2 J	-	R
Naphthalene	ppb	29	NC	-	0.090 U	0.090 UJ	1.2 UJ	-	3.2 U	1.5 U	3.2 U	-	2.6 U	4.2 U	-	R
N-Butylbenzene	ppb	NC	NC	-	0.046 UJ	0.046 U	0.76 U	-	1.6 U	0.94 U	1.6 U	-	1.7 U	2.2 U	-	R
N-Decane	ppb	NC	NC	-	-	0.056 U	-	-	-	-	-	-	-	-	-	-
N-Dodecane	ppb	NC	NC	-	-	0.078 UJ	-	-	-	-	-	-	-	-	-	-
N-Heptane	ppb	NC	NC	-	0.064 J	0.047 U	0.14 U	-	1.7 U	1.3 J	1.7 U	-	0.30 U	2.2 U	-	R
Nonane	ppb	NC	NC	-	-	0.043 U	-	-	-	-	-	-	-	-	-	-
N-Propylbenzene	ppb	NC	NC	-	0.056 U	0.056 U	0.69 U	-	2.0 U	0.86 U	2.0 U	-	1.5 U	2.6 U	-	R
N-Undecane	ppb	NC	NC	-	-	0.062 U	-	-	-	-	-	-	-	-	-	-
o-Xylene	ppb	2000	20000	-	0.061 U	0.061 U	0.30 U	-	2.2 U	0.38 U	2.2 U	-	0.67 U	2.9 U	-	R
Pentane	ppb	NC	NC	-	-	0.11 J	-	-	-	-	-	-	-	-	-	-
Styrene	ppb	NC	NC	-	0.058 U	0.058 U	0.41 U	-	2.1 U	0.51 U	2.1 U	-	0.91 U	2.7 U	-	R
tert-Butyl alcohol	ppb	NC	NC	-	0.23 J	0.051 J	0.98 U	-	1.4 U	1.2 U	1.4 U	-	2.2 U	1.8 U	-	R
tert-Butylbenzene	ppb	NC	NC	-	0.066 U	0.066 U	0.65 U	-	2.4 U	0.80 U	2.3 U	-	1.4 U	3.1 U	-	R

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250		2500		-	0.43	0.28	1.5 J	-	5.4 J	7.6	7.1	-	1.3 J	2.5 J	-	R
Tetrahydrofuran	ppb		NC		NC	-	0.11 J	0.063 U	0.25 U	-	2.2 U	0.31 U	2.2 U	-	0.55 U	3.0 U	-	R
Toluene	ppb		NC		NC	-	1.8	0.18 J	0.72 J	-	2.2 J	1.4 J	1.9 U	-	0.55 U	2.7 J	-	R
trans-1,2-Dichloroethene	ppb		NC		NC	-	0.050 U	0.050 U	0.60 J	-	2.6 J	0.55 U	1.8 U	-	43	59	-	R
trans-1,3-Dichloropropene	ppb		NC		NC	-	0.048 U	0.048 U	0.28 U	-	1.7 U	0.34 U	1.7 U	-	0.61 U	2.3 U	-	R
Trichloroethene	ppb	20		200		-	27[a]	1.2	240[ab]	-	740[ab]	400[ab]	390[ab]	-	690[ab]	680[ab]	-	R
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	-	0.29	0.34	0.47 U	-	0.86 U	0.58 U	0.85 U	-	1.0 U	1.1 U	-	R
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	-	0.44	0.81	0.14 U	-	1.1 U	0.17 U	1.1 U	-	0.30 U	1.5 U	-	R
Vinyl bromide (Bromoethene)	ppb		NC		NC	-	0.035 U	0.035 U	0.26 U	-	1.2 U	0.32 U	1.2 U	-	0.58 U	1.6 U	-	R
Vinyl chloride	ppb	20		200		-	0.071 U	0.071 U	0.40 U	-	2.5 U	0.50 U	2.5 U	-	0.88 U	3.3 U	-	R
Xylenes (total)	ppb		NC		NC	-	-	-	0.30 U	-	-	0.38 U	-	-	0.67 U	-	-	R
Gases																		
Methane	%	0.5		0.5		-	-	0.20 U	-	-	-	-	-	-	0.058 U	-	-	-
Field Parameter																		
Methane, field (unfiltered)	%	0.5		0.5		-	-	-	0.0	0.0	-	0.0 / 0.0	-	-	0.1 / 0.1	-	-	1.1[ab] / 1.2[ab]
Methane, field (filtered)	%	0.5		0.5		0	0.0	0 / 0	-	-	0.0 / 0	-	0.0 / 0.0	0	-	0.0 / 0.0	0	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5173, Bldg 15, Probe C*	*Parcel 5173, Bldg 15, Probe C*	*Parcel 5173, Bldg 15, Probe C*	*Parcel 5174, Bldg 16, Probe A*	*Parcel 5174, Bldg 16, Probe A*	*Parcel 5174, Bldg 16, Probe A*	*Parcel 5174, Bldg 16, Probe A*	*Parcel 5174, Bldg 16, Probe B*	*Parcel 5174, Bldg 16, Probe B*	*Parcel 5174, Bldg 16, Probe B*	*Parcel 5174, Bldg 16, Probe B*	*Parcel 5174, Bldg 16, Probe C*	*Parcel 5174, Bldg 16, Probe C*
Sample Location:				*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*
Owner / Tenant:				*SIM Trainer*	*SIM Trainer*	*SIM Trainer*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*
Sample ID:				*SS-38443-011212-JC-073*	*SS-38443-031312-JC-180*	*SS-38443-031312-JC-181*	*SS-38443-010512-GL-009*	*SS-38443-030712-JC-103*	*SS-38443-080212-GL-038*	*SS-38443-080312-GL-038*	*SS-38443-010512-GL-010*	*SS-38443-030612-JC-087*	*SS-38443-080312-GL-040*	*SS-38443-080312-GL-041*	*SS-38443-010512-GL-011*	*SS-38443-030612-JC-090*
Sample Date:				*1/12/2012*	*3/13/2012*	*3/13/2012*	*1/5/2012*	*3/7/2012*	*8/2/2012*	*8/3/2012*	*1/5/2012*	*3/6/2012*	*8/3/2012*	*8/3/2012*	*1/5/2012*	*3/6/2012*
				Duplicate										*Duplicate*		
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	8.8 U	16 U	-	0.18 U	0.29	1.3	-	R	5.7	33	33	0.44 J	0.57 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	10 U	32 U	-	0.20 U	0.061 U	0.061 U	-	R	0.12 U	0.61 U	0.61 U	0.40 U	0.61 U
1,1,2-Trichloroethane	ppb	NC	NC	4.8 U	28 U	-	0.095 U	0.054 U	0.054 U	-	R	0.11 U	0.54 U	0.54 U	0.19 U	0.54 U
1,1-Dichloroethane	ppb	160	1600	8.8 U	14 U	-	0.18 U	0.026 U	0.026 U	-	R	0.052 U	0.26 U	0.26 U	0.35 U	0.26 U
1,1-Dichloroethene	ppb	NC	NC	29 J	34 J	-	0.15 U	0.032 U	0.032 U	-	R	0.064 U	0.32 U	0.32 U	0.30 U	0.32 U
1,2,4-Trichlorobenzene	ppb	NC	NC	13 U	51 U	-	0.25 U	0.098 UJ	0.098 UJ	-	R	0.20 U	0.98 UJ	0.98 UJ	0.50 U	0.98 U
1,2,4-Trimethylbenzene	ppb	NC	NC	600	900	-	0.26 U	0.063 U	0.20	-	R	0.13 U	0.63 U	0.63 U	0.52 U	0.63 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	4.5 U	23 U	-	0.090 U	0.044 U	0.044 U	-	R	0.088 U	0.44 U	0.44 U	0.18 U	0.44 U
1,2-Dichlorobenzene	ppb	NC	NC	12 U	37 U	-	0.24 U	0.070 U	0.070 U	-	R	0.14 U	0.70 U	0.70 U	0.48 U	0.70 U
1,2-Dichloroethane	ppb	NC	NC	7.8 U	25 U	-	0.16 U	0.047 U	0.047 U	-	R	0.094 U	0.47 U	0.47 U	0.31 U	0.47 U
1,2-Dichloroethene (total)	ppb	NC	NC	7600	-	-	0.070 U	-	-	-	R	-	-	-	13	-
1,2-Dichloropropane	ppb	NC	NC	3.5 U	27 U	-	0.070 U	0.052 U	0.052 U	-	R	0.10 U	0.52 U	0.52 U	0.14 U	0.52 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	8.0 U	17 U	-	0.61 J	0.31	0.31	-	R	0.55	0.32 U	0.32 U	0.32 U	0.32 U
1,3,5-Trimethylbenzene	ppb	NC	NC	480	590	-	0.26 U	0.065 U	0.065 U	-	R	0.13 U	0.65 U	0.65 U	0.51 U	0.65 U
1,3-Butadiene	ppb	NC	NC	2.5 U	34 U	-	0.050 U	0.064 U	0.064 U	-	R	0.13 U	0.64 U	0.64 U	0.10 U	0.64 U
1,3-Dichlorobenzene	ppb	NC	NC	11 U	34 U	-	0.22 U	0.065 U	0.065 U	-	R	0.13 U	0.65 U	0.65 U	0.44 U	0.65 U
1,4-Dichlorobenzene	ppb	NC	NC	11 U	34 UJ	-	0.22 U	0.064 U	0.064 U	-	R	0.13 U	0.64 U	0.64 U	0.44 U	0.64 U
1,4-Dioxane	ppb	NC	NC	22 U	42 U	-	0.44 U	0.080 UJ	0.080 U	-	R	0.16 U	0.80 U	0.80 U	0.88 U	0.80 U
2,2,4-Trimethylpentane	ppb	NC	NC	9.0 U	150 J	-	0.18 U	0.039 U	0.050 J	-	R	0.078 U	0.39 U	0.39 U	0.36 U	0.39 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	4.3 U	100 U	-	0.71 J	0.20 UJ	1.7	-	R	0.40 U	2.0 U	2.0 U	0.17 U	2.0 U
2-Chlorotoluene	ppb	NC	NC	12 U	33 U	-	0.24 U	0.063 U	0.063 U	-	R	0.13 U	0.63 U	0.63 U	0.47 U	0.63 U
2-Hexanone	ppb	NC	NC	9.8 U	30 U	-	0.20 U	0.058 UJ	0.058 U	-	R	0.12 U	0.58 U	0.58 U	0.39 U	0.58 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	110	180 J	-	0.24 U	0.064 U	0.064 U	-	R	0.13 U	0.64 U	0.64 U	0.47 U	0.64 U
4-Ethyl toluene	ppb	NC	NC	110	210	-	0.23 U	0.066 U	0.066 U	-	R	0.13 U	0.66 U	0.66 U	0.46 U	0.66 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	6.5 U	24 U	-	0.13 U	0.045 UJ	0.045 U	-	R	0.090 U	0.45 U	0.45 U	0.26 U	0.45 U
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-	R	-	-	-	-	-
Acetone	ppb	NC	NC	72 J	730 U	-	1.1 J	1.4 U	10	-	R	2.8 U	16 J	14 U	2.5 J	14 U
Allyl chloride	ppb	NC	NC	4.8 U	25 U	-	0.095 U	0.048 U	0.048 U	-	R	0.096 U	0.48 U	0.48 U	0.19 U	0.48 U
Benzene	ppb	20	200	230[ab]	320[ab]	-	0.090 U	0.056 U	0.075 J	-	R	0.11 U	0.56 U	0.56 U	0.18 U	0.56 U
Benzyl chloride	ppb	NC	NC	12 UJ	41 U	-	0.23 UJ	0.078 U	0.078 U	-	R	0.16 U	0.78 U	0.78 U	0.48 UJ	0.78 U
Bromodichloromethane	ppb	NC	NC	7.0 U	23 U	-	0.14 U	0.044 U	0.044 U	-	R	0.088 U	0.44 U	0.44 U	0.28 U	0.44 U
Bromoform	ppb	NC	NC	4.8 U	25 U	-	0.095 U	0.048 U	0.048 U	-	R	0.096 U	0.48 U	0.48 U	0.19 U	0.48 U
Bromomethane (Methyl bromide)	ppb	NC	NC	3.0 U	17 U	-	0.060 U	0.032 U	0.032 U	-	R	0.064 U	0.32 U	0.32 U	0.12 U	0.32 U
Butane	ppb	NC	NC	6400	10000 J	-	0.055 U	0.48	0.064 U	-	R	0.53 J	0.64 U	0.64 U	0.36 J	0.83 J
Carbon disulfide	ppb	NC	NC	38 J	70 J	-	0.33 U	0.031 U	0.048 J	-	R	0.062 U	0.31 U	0.31 U	0.66 U	0.31 U
Carbon tetrachloride	ppb	NC	NC	8.3 U	20 U	-	0.17 U	0.038 U	0.038 U	-	R	0.076 U	0.38 U	0.38 U	0.33 U	0.38 U
Chlorobenzene	ppb	NC	NC	520	680	-	0.10 U	0.049 U	0.049 U	-	R	0.098 U	0.49 U	0.49 U	0.20 U	0.49 U
Chlorodifluoromethane	ppb	NC	NC	8.5 U	130 J	-	0.17 U	0.47	0.30	-	R	0.54	0.37 U	0.37 U	0.34 U	0.88 J
Chloroethane	ppb	NC	NC	41 J	87 J	-	0.080 U	0.035 U	0.035 U	-	R	0.070 U	0.35 U	0.35 U	0.16 U	0.35 U
Chloroform (Trichloromethane)	ppb	800	8000	7.8 U	20 U	-	0.16 U	0.038 U	0.050 J	-	R	0.14 J	0.61 J	0.56 J	2.3	2.6
Chloromethane (Methyl chloride)	ppb	NC	NC	3.3 U	84 U	-	0.065 U	0.16 U	0.20 J	-	R	0.32 U	1.6 U	1.6 U	0.13 U	1.6 U
cis-1,2-Dichloroethene	ppb	370	3700	7400[ab]	10000[ab]	-	0.070 U	0.060 U	0.060 U	-	R	0.12 U	0.60 U	0.60 U	11	13
cis-1,3-Dichloropropene	ppb	NC	NC	4.0 U	39 U	-	0.080 U	0.074 U	0.074 U	-	R	0.15 U	0.74 U	0.74 U	0.16 U	0.74 U
Cyclohexane	ppb	NC	NC	1900	2900	-	0.20 U	0.040 U	0.21 J	-	R	0.080 U	0.40 U	0.40 U	0.39 U	0.40 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	63	82 J	-	0.24 U	0.057 U	0.057 U	-	R	0.11 U	0.57 U	0.57 U	0.48 U	0.57 U
Dibromochloromethane	ppb	NC	NC	5.3 U	22 U	-	0.11 U	0.042 U	0.042 U	-	R	0.084 U	0.42 U	0.42 U	0.21 U	0.42 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	9.5 U	36 U	-	3.7	2.3	4.3	-	R	16	4.3	4.2	1.4 J	1.7 J
Ethylbenzene	ppb	2500	25000	320	540	-	0.11 U	0.068 U	0.20	-	R	0.29 J	0.68 U	0.68 U	0.22 U	0.68 U
Hexachlorobutadiene	ppb	NC	NC	16 U	41 U	-	0.33 U	0.078 UJ	0.078 UJ	-	R	0.16 U	0.78 UJ	0.78 UJ	0.65 U	0.78 U
Hexane	ppb	NC	NC	1300	1900	-	0.13 U	0.098 J	0.53	-	R	0.13 J	0.32 U	0.32 U	0.26 U	0.37 J
Isopropyl alcohol	ppb	NC	NC	9.3 U	37 J	-	0.19 U	0.28 J	0.044 U	-	R	0.45 J	0.44 U	0.44 U	0.37 U	0.44 U
Isopropyl benzene	ppb	NC	NC	140	220	-	0.16 U	0.060 U	0.060 U	-	R	0.12 U	0.60 U	0.60 U	0.31 U	0.60 U
m&p-Xylenes	ppb	2000	20000	820	1300	-	0.24 U	0.12 U	0.73	-	R	0.90	1.2 U	1.2 U	0.48 U	1.2 U
Methyl methacrylate	ppb	NC	NC	3.3 U	41 U	-	0.065 U	0.079 U	0.079 U	-	R	0.16 U	0.79 U	0.79 U	0.13 U	0.79 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	4.0 U	89 U	-	0.080 U	0.17 U	0.17 U	-	R	0.34 U	1.7 U	1.7 U	0.16 U	1.7 U
Methylene chloride	ppb	NC	NC	17 J	220 J	-	0.31 J	0.39 J	0.045 U	-	R	0.090 U	0.45 U	0.45 U	0.13 U	0.45 U
Naphthalene	ppb	29	NC	22 U	47 U[a]	-	0.43 UJ	0.090 UJ	0.090 UJ	-	R	0.18 U	0.90 UJ	0.90 UJ	0.86 UJ	0.90 U
N-Butylbenzene	ppb	NC	NC	27 J	110 J	-	0.28 U	0.046 U	0.046 U	-	R	0.092 U	0.46 U	0.46 U	0.55 U	0.46 U
N-Decane	ppb	NC	NC	-	1200	-	-	-	0.27 J	-	-	0.11 U	0.56 U	0.56 U	-	1.5 J
N-Dodecane	ppb	NC	NC	-	67 J	-	-	-	0.078 UJ	-	-	0.16 U	0.78 UJ	0.78 UJ	-	0.078 U
N-Heptane	ppb	NC	NC	3600	4900	-	0.050 U	0.066 J	0.36 J	-	R	0.094 U	0.47 U	0.47 U	0.10 U	0.47 U
Nonane	ppb	NC	NC	-	2900	-	-	-	0.18 J	-	-	0.086 U	0.43 U	0.43 U	-	1.4 J
N-Propylbenzene	ppb	NC	NC	120	200 J	-	0.25 U	0.056 U	0.056 U	-	R	0.11 U	0.56 U	0.56 U	0.50 U	0.56 U
N-Undecane	ppb	NC	NC	-	0.062 U	-	-	-	0.099 J	-	-	0.12 U	0.62 U	0.62 U	-	0.062 U
Octane	ppb	NC	NC	-	2400	-	-	-	0.094 J	-	-	0.072 U	0.36 U	0.36 U	-	0.53 J
o-Xylene	ppb	2000	20000	710	1100	-	0.11 U	0.061 U	0.22	-	R	0.42	0.61 U	0.61 U	0.22 U	0.61 U
Pentane	ppb	NC	NC	-	3100	-	-	-	2.6	-	-	0.18 J	0.92 J	1.3 J	-	0.060 U
Styrene	ppb	NC	NC	7.5 U	30 U	-	0.15 U	0.058 U	0.058 U	-	R	0.12 U	0.58 U	0.58 U	0.30 U	0.58 U
tert-Butyl alcohol	ppb	NC	NC	18 U	95 J	-	0.36 U	0.049 J	0.038 U	-	R	0.090 J	1.5 J	1.2 J	0.71 U	0.38 U
tert-Butylbenzene	ppb	NC	NC	12 J	35 U	-	0.24 U	0.066 U	0.066 U	-	R	0.13 U	0.66 U	0.66 U	0.47 U	0.66 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	2.8 U	21 U	-	0.66 J	0.98	11	-	R	4.6	52	51	4.4	4.6
Tetrahydrofuran	ppb	NC	NC	4.5 U	33 U	-	0.090 U	0.063 U	0.063 U	-	R	0.13 U	0.63 U	0.63 U	0.18 U	0.63 U
Toluene	ppb	NC	NC	3500	5200	-	0.90 J	0.78	2.8	-	R	0.29 J	0.75 J	0.96 J	0.18 U	0.74 J
trans-1,2-Dichloroethene	ppb	NC	NC	150	230	-	0.16 U	0.050 U	0.050 U	-	R	0.10 U	0.50 U	0.50 U	1.6 J	2.2
trans-1,3-Dichloropropene	ppb	NC	NC	5.0 U	25 U	-	0.10 U	0.048 U	0.048 U	-	R	0.096 U	0.48 U	0.48 U	0.20 U	0.48 U
Trichloroethene	ppb	20	200	95[a]	120[a]	-	0.49 J	0.64	4.7	-	R	30[a]	300[ab]	300[ab]	170[a]	160[a]
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	8.5 U	13 U	-	0.17 U	0.31	2.9	-	R	0.96	2.6	2.5	0.34 U	0.34 J
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	2.5 U	16 U	-	0.050 U	0.055 J	0.10 J	-	R	0.062 U	0.31 U	0.31 U	0.10 U	0.31 U
Vinyl bromide (Bromoethene)	ppb	NC	NC	4.8 U	18 U	-	0.095 U	0.035 U	0.035 U	-	R	0.070 U	0.35 U	0.35 U	0.19 U	0.35 U
Vinyl chloride	ppb	20	200	1100[ab]	1700[ab]	-	0.15 U	0.071 U	0.071 U	-	R	0.14 U	0.71 U	0.71 U	0.29 U	0.71 U
Xylenes (total)	ppb	NC	NC	1500	-	-	0.11 U	-	-	-	R	-	-	-	0.22 U	-
Gases																
Methane	%	0.5	0.5	-	-	0.97[ab]	-	0.19 U	0.21 U	-	R	0.19 U	0.20 U	0.20 U	-	0.17 U
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	1.2[ab] / 1.1[ab]	-	-	0.0 / 0.0	-	-	-	0.0 / 0.0	-	-	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.5	0.5	-	0.9[ab] / 0.8[ab]	0.9[ab] / 0.8[ab]	-	0.0 / 0	-	0 / 0	-	0 / 0.0	0 / 0	0 / 0	-	0.0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5174, Bldg 16, Probe C*	*Parcel 5174, Bldg 16, Probe D*	*Parcel 5174, Bldg 16, Probe D*	*Parcel 5174, Bldg 16, Probe D*	*Parcel 5174, Bldg 16, Probe E*	*Parcel 5174, Bldg 16, Probe E*	*Parcel 5174, Bldg 16, Probe E*	*Parcel 5174, Bldg 16, Probe E*	*Parcel 5174, Bldg 16, Probe E*	*Parcel 5175, Bldg 17, Probe A*	*Parcel 5175, Bldg 17, Probe A*	*Parcel 5175, Bldg 17, Probe A*	*Parcel 5175, Bldg 17, Probe A*
Sample Location:				*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*
Owner / Tenant:				*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*
Sample ID:				*SS-38443-080312-GL-042*	*SS-38443-010512-GL-012*	*SS-38443-030612-JC-091*	*SS-38443-080312-GL-044*	*SS-38443-010512-GL-013*	*SS-38443-030612-JC-093*	*SS-38443-030612-JC-094*	*SS-38443-080312-GL-045*	*SS-38443-091412-GL-026*	*SS-38443-010912-JC-044*	*SS-38443-030712-JC-106*	*SS-38443-080112-GL-029*	*SS-38443-080112-GL-029*
Sample Date:				*8/3/2012*	*1/5/2012*	*3/6/2012*	*8/3/2012*	*1/5/2012*	*3/6/2012*	*3/6/2012*	*8/3/2012*	*9/14/2012*	*1/9/2012*	*3/7/2012*	*8/1/2012*	*8/2/2012*
										Duplicate						
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	2.1 J	R	3.4	18	R	0.89	0.70	0.060 U	1.9	0.13 J	0.17 J	0.31 J	-
1,1,2,2-Tetrachloroethane	ppb	NC	NC	3.3 U	R	0.061 U	0.12 U	R	0.061 U	0.061 U	0.12 U	0.061 U	0.040 U	0.061 U	0.11 U	-
1,1,2-Trichloroethane	ppb	NC	NC	2.9 U	R	0.054 U	0.11 U	R	0.054 U	0.054 U	0.11 U	0.054 U	0.019 U	0.054 U	0.095 U	-
1,1-Dichloroethane	ppb	160	1600	1.4 U	R	0.026 U	0.052 U	R	0.026 U	0.026 U	0.052 U	0.026 U	0.035 U	0.026 U	0.046 U	-
1,1-Dichloroethene	ppb	NC	NC	1.7 U	R	0.032 U	0.064 U	R	0.032 U	0.032 U	0.064 U	0.032 U	0.030 U	0.032 U	0.056 U	-
1,2,4-Trichlorobenzene	ppb	NC	NC	5.2 UJ	R	0.098 U	0.20 UJ	R	0.098 U	0.098 U	0.20 UJ	0.098 UJ	0.050 U	0.098 UJ	0.17 UJ	-
1,2,4-Trimethylbenzene	ppb	NC	NC	3.4 U	R	0.063 U	0.13 U	R	0.063 U	0.063 U	1.8	0.063 U	0.24	0.13 J	0.36	-
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	2.4 U	R	0.044 U	0.088 U	R	0.044 U	0.044 U	0.088 U	0.044 U	0.018 U	0.044 U	0.077 U	-
1,2-Dichlorobenzene	ppb	NC	NC	3.7 U	R	0.070 U	0.14 U	R	0.070 U	0.070 U	0.14 U	0.070 U	0.048 U	0.070 U	0.12 U	-
1,2-Dichloroethane	ppb	NC	NC	2.5 U	R	0.047 U	0.094 U	R	0.047 UJ	6.0 J	0.25 J	0.047 U	0.031 U	0.047 U	0.18 J	-
1,2-Dichloroethene (total)	ppb	NC	NC	-	R	-	-	R	-	-	-	-	0.014 U	-	-	-
1,2-Dichloropropane	ppb	NC	NC	2.8 U	R	0.052 U	0.10 U	R	0.052 U	0.052 U	0.10 U	0.052 U	0.014 U	0.052 U	0.092 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	1.7 U	R	1.3	0.37 J	R	0.21	0.18 J	0.064 U	0.14 J	0.065 J	0.035 J	0.056 U	-
1,3,5-Trimethylbenzene	ppb	NC	NC	3.5 U	R	0.065 U	0.13 U	R	0.065 U	0.065 U	0.50	0.065 U	0.082 J	0.065 U	0.11 U	-
1,3-Butadiene	ppb	NC	NC	3.4 U	R	0.064 U	0.13 U	R	0.064 U	0.064 U	0.13 U	0.064 U	0.010 U	0.064 U	0.11 U	-
1,3-Dichlorobenzene	ppb	NC	NC	3.5 U	R	0.065 U	0.13 U	R	0.065 U	0.065 U	0.13 U	0.065 U	0.044 U	0.065 U	0.11 U	-
1,4-Dichlorobenzene	ppb	NC	NC	3.4 U	R	0.064 U	0.13 U	R	0.064 U	0.064 U	0.13 U	0.064 U	0.044 U	0.064 U	0.11 U	-
1,4-Dioxane	ppb	NC	NC	4.3 U	R	0.080 U	0.16 U	R	0.080 U	0.080 U	0.19 J	0.080 U	0.088 U	0.080 UJ	0.14 U	-
2,2,4-Trimethylpentane	ppb	NC	NC	2.1 U	R	0.039 U	0.078 U	R	0.039 U	0.039 U	0.17 J	0.039 U	0.036 U	0.039 U	0.23 J	-
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	11 U	R	0.20 U	0.64 J	R	0.30 J	0.20 U	32	0.45 J	0.36 J	0.20 UJ	1.2 J	-
2-Chlorotoluene	ppb	NC	NC	3.4 U	R	0.063 U	0.13 U	R	0.063 U	0.063 U	0.13 U	0.063 U	0.047 U	0.063 U	0.11 U	-
2-Hexanone	ppb	NC	NC	3.1 U	R	0.058 U	0.12 U	R	0.058 U	0.058 U	0.12 U	0.058 U	0.039 U	0.058 UJ	0.18 J	-
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	3.4 U	R	0.064 U	0.13 U	R	0.064 U	0.064 U	0.13 U	0.064 U	0.047 U	0.064 U	0.11 U	-
4-Ethyl toluene	ppb	NC	NC	3.5 U	R	0.066 U	0.13 U	R	0.066 U	0.066 U	0.38 J	0.066 U	0.073 J	0.066 U	0.12 U	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	2.4 U	R	0.045 U	0.090 U	R	0.045 U	0.045 U	0.15 J	0.060 J	0.026 U	0.045 UJ	0.079 U	-
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-	-	54 J	-	-	-	-
Acetone	ppb	NC	NC	75 U	R	1.4 U	4.3 J	R	2.9 J	2.5 J	46	4.0 J	4.4 J	1.4 U	12	-
Allyl chloride	ppb	NC	NC	2.6 U	R	0.048 U	0.096 U	R	0.048 U	0.067 J	0.096 U	0.048 U	0.019 U	0.048 U	0.084 U	-
Benzene	ppb	20	200	3.0 U	R	0.056 U	0.11 U	R	0.056 U	0.056 U	0.32 J	0.056 U	0.20	0.12 J	0.29 J	-
Benzyl chloride	ppb	NC	NC	4.2 U	R	0.078 U	0.16 U	R	0.078 U	0.078 U	0.16 U	0.078 U	0.046 U	0.078 U	0.14 U	-
Bromodichloromethane	ppb	NC	NC	2.4 U	R	0.044 U	0.088 U	R	0.044 U	0.044 U	0.088 U	0.044 U	0.028 U	0.044 U	0.077 U	-
Bromoform	ppb	NC	NC	2.6 U	R	0.048 U	0.096 U	R	0.048 U	0.048 U	0.096 U	0.048 U	0.019 U	0.048 U	0.084 U	-
Bromomethane (Methyl bromide)	ppb	NC	NC	1.7 U	R	0.032 U	0.064 U	R	0.032 U	0.032 U	0.064 U	0.032 U	0.012 U	0.032 U	0.056 U	-
Butane	ppb	NC	NC	3.4 U	R	0.12 J	0.18 J	R	0.081 J	0.16 J	1.2	0.076 J	1.6	0.99	2.9	-
Carbon disulfide	ppb	NC	NC	1.7 U	R	0.031 U	7.4	R	0.031 U	0.031 U	0.25 J	0.031 U	0.066 U	0.031 U	13	-
Carbon tetrachloride	ppb	NC	NC	2.0 U	R	0.038 U	0.076 U	R	0.066 J	0.056 J	0.076 J	0.085 J	0.033 U	0.038 U	0.080 J	-
Chlorobenzene	ppb	NC	NC	2.6 U	R	0.049 U	0.098 U	R	0.049 U	0.049 U	0.098 U	0.049 U	0.020 U	0.049 U	0.086 U	-
Chlorodifluoromethane	ppb	NC	NC	2.0 U	R	0.51	0.25 J	R	0.99	1.1	2.9	3.7	0.30 J	0.82	0.36	-
Chloroethane	ppb	NC	NC	1.9 U	R	0.035 U	0.070 U	R	0.035 U	0.035 U	0.070 U	0.035 U	0.016 U	0.035 U	0.37	-
Chloroform (Trichloromethane)	ppb	800	8000	14	R	0.061 J	0.18 J	R	0.038 U	0.041 J	0.076 U	0.038 U	0.031 U	0.038 U	0.70	-
Chloromethane (Methyl chloride)	ppb	NC	NC	8.6 U	R	0.16 U	0.65 J	R	0.16 U	0.26 J	0.85 J	0.16 U	0.013 U	0.16 U	2.2	-
cis-1,2-Dichloroethene	ppb	370	3700	63	R	0.060 U	0.12 U	R	0.060 U	0.060 U	0.12 U	0.060 U	0.014 U	0.060 U	0.11 U	-
cis-1,3-Dichloropropene	ppb	NC	NC	4.0 U	R	0.074 U	0.15 U	R	0.074 U	0.074 U	0.15 U	0.074 U	0.016 U	0.074 U	0.13 U	-
Cyclohexane	ppb	NC	NC	2.1 U	R	0.055 J	0.080 U	R	0.040 U	0.22 J	1.4	0.040 U	0.67	0.36 J	1.4	-
Cymene (p-Isopropyltoluene)	ppb	NC	NC	3.0 U	R	0.057 U	0.11 U	R	0.057 U	0.057 U	0.11 U	0.057 U	0.048 U	0.057 U	0.10 U	-
Dibromochloromethane	ppb	NC	NC	2.2 U	R	0.042 U	0.084 U	R	0.042 U	0.042 U	0.084 U	0.042 U	0.021 U	0.042 U	0.074 U	-
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	3.6 U	R	1.3	0.82	R	0.74	0.72	0.53	0.57	0.64	0.57	0.48	-
Ethylbenzene	ppb	2500	25000	3.6 U	R	0.068 U	0.14 U	R	0.068 U	0.068 U	2.4	0.068 U	0.40	0.18 J	0.35	-
Hexachlorobutadiene	ppb	NC	NC	4.2 UJ	R	0.078 U	0.16 UJ	R	0.078 U	0.078 U	0.16 UJ	0.078 UJ	0.065 U	0.078 UJ	0.14 UJ	-
Hexane	ppb	NC	NC	1.7 U	R	2.0	0.17 J	R	0.15 J	0.86 J	19	0.14 J	0.37	0.26 J	0.97	-
Isopropyl alcohol	ppb	NC	NC	2.4 U	R	0.62 J	0.32 J	R	0.36 J	9.8 J	1.0 J	0.16 J	0.037 U	0.54 J	1.1 J	-
Isopropyl benzene	ppb	NC	NC	3.2 U	R	0.060 U	0.12 U	R	0.060 U	0.060 U	0.12 U	0.060 U	0.22	0.097 J	0.11 U	-
m&p-Xylenes	ppb	2000	20000	6.4 U	R	0.12 U	0.24 U	R	0.12 U	0.12 U	8.6	0.12 U	1.0	0.47	1.5	-
Methyl methacrylate	ppb	NC	NC	4.2 U	R	0.079 U	0.16 U	R	0.079 U	0.079 U	0.16 U	0.079 U	0.54	0.079 U	0.14 U	-
Methyl tert butyl ether (MTBE)	ppb	NC	NC	9.1 U	R	0.17 U	0.34 U	R	0.17 U	0.17 U	0.34 U	0.17 U	0.016 U	0.17 U	0.30 U	-
Methylene chloride	ppb	NC	NC	2.4 U	R	0.045 U	1.3	R	0.045 U	0.045 U	1.0	0.26 U	0.11 U	0.51	0.079 U	-
Naphthalene	ppb	29	NC	4.8 UJ	R	0.090 U	0.18 UJ	R	0.090 U	0.090 U	0.69 J	0.090 UJ	0.21 J	0.12 J	0.25 J	-
N-Butylbenzene	ppb	NC	NC	2.5 U	R	0.046 U	0.092 U	R	0.046 U	0.046 U	0.12 J	0.046 U	0.055 U	0.046 U	0.081 U	-
N-Decane	ppb	NC	NC	3.0 U	-	-	0.11 U	-	-	-	2.6	0.056 UJ	-	-	0.099 U	-
N-Dodecane	ppb	NC	NC	4.2 UJ	-	-	0.17 J	-	-	-	1.3 J	0.078 U	-	-	0.18 J	-
N-Heptane	ppb	NC	NC	2.5 U	R	0.047 U	0.094 U	R	0.047 U	0.14 J	2.6	0.047 U	1.2	0.51	0.27 J	-
Nonane	ppb	NC	NC	2.3 U	-	-	0.086 U	-	-	-	2.0	0.043 U	-	-	0.076 U	-
N-Propylbenzene	ppb	NC	NC	3.0 U	R	0.056 U	0.11 U	R	0.056 U	0.056 U	0.24 J	0.056 U	0.12 J	0.056 U	0.099 U	-
N-Undecane	ppb	NC	NC	3.3 U	-	-	0.12 U	-	-	-	1.5 J	0.062 U	-	-	0.11 U	-
Octane	ppb	NC	NC	1.9 U	-	-	0.072 U	-	-	-	0.54 J	0.036 U	-	-	0.063 U	-
o-Xylene	ppb	2000	20000	3.3 U	R	0.061 U	0.12 U	R	0.061 U	0.061 U	2.1	0.061 U	0.57	0.24	0.90	-
Pentane	ppb	NC	NC	3.2 U	-	-	0.50 J	-	-	-	34	0.33 J	-	-	2.4	-
Styrene	ppb	NC	NC	3.1 U	R	0.058 U	0.12 U	R	0.058 U	0.058 U	0.12 U	0.058 U	0.030 U	0.058 U	0.10 U	-
tert-Butyl alcohol	ppb	NC	NC	2.6 J	R	0.044 J	0.15 J	R	0.080 J	0.038 U	0.25 J	0.063 J	0.071 U	0.19 J	0.29 J	-
tert-Butylbenzene	ppb	NC	NC	3.5 U	R	0.066 U	0.13 U	R	0.066 U	0.066 U	0.13 U	0.066 U	0.047 U	0.066 U	0.12 U	-

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250	2500	35	R	2.8	39	R	0.32 J	0.13 J	0.080 U	1.4	1.3	1.0	4.9	-
Tetrahydrofuran	ppb	NC	NC	3.4 U	R	0.063 U	0.13 U	R	0.063 UJ	0.66 J	0.13 U	0.063 U	0.018 U	0.063 U	0.11 U	-
Toluene	ppb	NC	NC	2.9 U	R	0.72	0.45	R	0.27	0.28	53	0.21	1.9	0.94	2.3	-
trans-1,2-Dichloroethene	ppb	NC	NC	10 J	R	0.050 U	0.10 U	R	0.050 U	0.050 U	0.10 U	0.050 U	0.032 U	0.050 U	0.088 U	-
trans-1,3-Dichloropropene	ppb	NC	NC	2.6 U	R	0.048 U	0.096 U	R	0.048 U	0.048 U	0.096 U	0.048 U	0.020 U	0.048 U	0.084 U	-
Trichloroethene	ppb	20	200	1500[ab]	R	4.0	32[a]	R	12 J	5.3 J	0.098 J	34[a]	26[a]	24[a]	120[a]	-
Trichlorofluoromethane (CFC-11)	ppb	NC	NC	2.2 J	R	0.23	5.6	R	0.49	0.38	0.43	0.80	1.5	1.8	0.84	-
Trifluorotrichloroethane (Freon 113)	ppb	NC	NC	1.7 U	R	0.042 J	0.13 J	R	0.057 J	0.057 J	0.077 J	0.082 J	0.065 J	0.070 J	0.074 J	-
Vinyl bromide (Bromoethene)	ppb	NC	NC	1.9 U	R	0.035 U	0.070 U	R	0.035 U	0.035 U	0.070 U	0.035 U	0.019 U	0.035 U	0.062 U	-
Vinyl chloride	ppb	20	200	3.8 U	R	0.071 U	0.14 U	R	0.071 U	0.071 U	0.17 J	0.071 U	0.029 U	0.071 U	0.12 U	-
Xylenes (total)	ppb	NC	NC	-	R	-	-	R	-	-	-	-	1.6	-	-	-
Gases																
Methane	%	0.5	0.5	0.20 U	-	-	0.21 U	-	-	-	0.22 U	0.20 U	-	-	0.26 U	-
Field Parameter																
Methane, field (unfiltered)	%	0.5	0.5	-	0.0 / 0.0	-	-	0.0 / 0.0	-	-	-	-	0.0 / 0.0	-	-	-
Methane, field (filtered)	%	0.5	0.5	0 / 0	-	0 / 0.0	0 / 0	-	0 / 0.0	0 / 0.0	0 / 0	-	-	0 / 0.0	0 / 0 / 0	0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5175, Bldg 17, Probe B*	*Parcel 5175, Bldg 17, Probe B*	*Parcel 5175, Bldg 17, Probe B*	*Parcel 5175, Bldg 17, Probe C*	*Parcel 5175, Bldg 17, Probe C*	*Parcel 5175, Bldg 17, Probe C*	*Parcel 5175, Bldg 17, Probe C*	*Parcel 5223, Bldg 28, Probe A*	*Parcel 5223, Bldg 28, Probe A*	*Parcel 5223, Bldg 28, Probe A*	*Parcel 5223, Bldg 28, Probe B*	*Parcel 5223, Bldg 28, Probe B*
Sample Location:				*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2229 Dryden Road*	*2229 Dryden Road*	*2229 Dryden Road*	*2229 Dryden Road*	*2229 Dryden Road*
Owner / Tenant:				*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*Vinny's Bar & Grille*	*Vinny's Bar & Grille*	*Vinny's Bar & Grille*	*Vinny's Bar & Grille*	*Vinny's Bar & Grille*
Sample ID:				*SS-38443-010912-JC-045*	*SS-38443-030712-JC-108*	*SS-38443-080112-GL-020*	*SS-38443-010912-JC-046*	*SS-38443-030712-JC-109*	*SS-38443-080112-GL-018*	*SS-38443-080112-GL-019*	*SS-38443-073012-GL-001*	*SS-38443-091112-GL-003*	*SS-38443-091112-GL-004*	*SS-38443-073012-GL-002*	*SS-38443-091112-GL-001*
Sample Date:				*1/9/2012*	*3/7/2012*	*8/1/2012*	*1/9/2012*	*3/7/2012*	*8/1/2012*	*8/1/2012*	*7/30/2012*	*9/11/2012*	*9/11/2012*	*7/30/2012*	*9/11/2012*
										Duplicate			*Duplicate*		
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Non-residential) a*	*ODH Sub-Slab Action Levels (Non-residential) b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.28 U	0.19 J	0.56	0.035 U	0.030 U	0.050 J	0.056 J	13	9.6	11	25 J	12
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.32 U	0.061 U	0.061 U	0.040 U	0.061 U	0.061 U	0.061 U	0.30 U	0.44 U	0.44 U	0.075 UJ	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.15 U	0.054 U	0.054 U	0.019 U	0.054 U	0.054 U	0.054 U	0.27 U	0.39 U	0.39 U	0.066 UJ	0.054 U
1,1-Dichloroethane	ppb	160	1600	0.28 U	0.026 U	0.026 U	0.035 U	0.026 U	0.026 U	0.026 U	0.13 U	0.19 U	0.19 U	0.032 UJ	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.24 U	0.032 U	0.032 U	0.030 U	0.032 U	0.032 U	0.032 U	0.16 U	0.23 U	0.23 U	0.039 UJ	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.40 U	0.098 UJ	0.098 UJ	0.050 U	0.098 UJ	0.098 UJ	0.098 UJ	0.49 UJ	0.70 U	0.70 U	0.12 UJ	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.42 U	0.063 U	0.063 U	0.052 U	0.063 U	0.11 J	1.5 J	0.32 U	0.45 U	0.45 U	0.077 UJ	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.14 U	0.044 U	0.044 U	0.018 U	0.044 U	0.044 U	0.044 U	0.22 U	0.31 U	0.31 U	0.55 J	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.38 U	0.070 U	0.070 U	0.048 U	0.070 U	0.070 U	0.070 U	0.35 U	0.50 U	0.50 U	0.086 UJ	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.25 U	0.047 U	0.047 U	0.031 U	0.047 U	0.047 U	0.047 U	0.24 U	0.34 U	0.34 U	0.058 UJ	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	0.11 U	-	-	0.14 J	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.11 U	0.052 U	0.052 U	0.014 U	0.052 U	0.052 U	0.052 U	0.26 U	0.37 U	0.37 U	0.064 UJ	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.26 U	0.038 J	0.079 J	0.032 U	0.032 U	0.032 U	0.032 U	0.16 U	0.23 U	0.23 U	0.039 UJ	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.41 U	0.065 U	0.64	0.051 U	0.065 U	0.065 U	0.065 U	0.32 U	0.46 U	0.46 U	0.080 UJ	0.065 U
1,3-Butadiene	ppb	NC	NC	0.080 U	0.064 U	0.064 U	0.010 U	0.064 U	0.064 U	0.064 U	0.32 U	0.46 U	0.46 U	0.079 UJ	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.35 U	0.065 U	0.065 U	0.044 U	0.065 U	0.065 U	0.065 U	0.32 U	0.46 U	0.46 U	0.080 UJ	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.35 U	0.064 U	0.064 U	0.044 U	0.064 U	0.064 U	0.064 U	0.32 U	0.46 UJ	0.46 UJ	0.079 UJ	0.064 UJ
1,4-Dioxane	ppb	NC	NC	0.70 U	0.080 UJ	0.080 U	0.088 U	0.080 UJ	0.080 U	0.080 U	0.40 U	0.57 UJ	0.57 UJ	0.098 UJ	0.080 UJ
2,2,4-Trimethylpentane	ppb	NC	NC	0.29 U	0.039 U	0.039 U	0.036 U	0.039 U	0.039 U	0.039 U	0.20 U	0.28 U	0.28 U	0.048 UJ	0.039 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.14 U	0.20 UJ	0.65 J	0.14 J	0.20 UJ	0.59 J	0.41 J	1.0 U	1.4 UJ	1.4 UJ	0.93 J	0.44 J
2-Chlorotoluene	ppb	NC	NC	0.38 U	0.063 U	0.063 U	0.047 U	0.063 U	0.063 U	0.063 U	0.32 U	0.45 U	0.45 U	0.077 UJ	0.063 U
2-Hexanone	ppb	NC	NC	0.31 U	0.058 UJ	0.058 UJ	0.039 U	0.058 UJ	0.058 UJ	0.063 J	0.29 U	0.41 U	0.41 U	0.088 J	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.38 U	0.064 U	0.064 U	0.047 U	0.064 U	0.064 U	0.064 U	0.32 U	0.46 U	0.46 U	0.079 UJ	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.37 U	0.066 U	0.066 U	0.046 U	0.066 U	0.066 U	0.46	0.33 U	0.47 U	0.47 U	0.081 UJ	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.21 U	0.045 UJ	0.045 U	0.026 U	0.045 UJ	0.045 U	0.081 J	0.22 U	0.32 U	0.32 U	0.055 UJ	0.16 J
Acetaldehyde	ppb	110	NC	-	-	-	-	-	-	-	-	71 UJ	71 UJ	-	28 J
Acetone	ppb	NC	NC	2.2 J	1.4 U	6.5 J	5.5	2.2 J	5.2 J	2.7 J	7.0 UJ	10 UJ	10 UJ	8.7 J	5.9 J
Allyl chloride	ppb	NC	NC	0.15 U	0.048 U	0.048 U	0.019 U	0.048 U	0.048 U	0.048 U	0.24 U	0.34 U	0.34 U	0.059 UJ	0.048 U
Benzene	ppb	20	200	0.14 U	0.056 U	0.63	0.018 U	0.056 U	0.056 U	0.41	0.28 U	0.40 U	0.40 U	0.069 UJ	0.056 U
Benzyl chloride	ppb	NC	NC	0.37 U	0.078 U	0.078 U	0.046 U	0.078 U	0.078 U	0.078 U	0.39 U	0.56 U	0.56 U	0.096 UJ	0.078 U
Bromodichloromethane	ppb	NC	NC	0.22 U	0.044 U	0.044 U	0.028 U	0.044 U	0.044 U	0.044 U	0.22 U	0.31 U	0.31 U	0.054 UJ	0.044 U
Bromoform	ppb	NC	NC	0.15 U	0.048 U	0.048 U	0.019 U	0.048 U	0.048 U	0.048 U	0.24 U	0.34 UJ	0.34 UJ	0.059 UJ	0.048 UJ
Bromomethane (Methyl bromide)	ppb	NC	NC	0.096 U	0.032 U	0.032 U	0.012 U	0.032 U	0.032 U	0.032 U	0.16 U	0.23 U	0.23 U	0.039 UJ	0.032 U
Butane	ppb	NC	NC	0.088 U	0.27 J	0.13 J	0.28 J	0.13 J	0.52 J	0.25 J	0.32 UJ	0.46 U	0.46 U	1.5 J	0.50
Carbon disulfide	ppb	NC	NC	0.53 U	0.031 U	0.050 J	0.066 U	0.031 U	0.13 J	0.067 J	0.16 U	0.22 U	0.22 U	0.11 J	0.19 J
Carbon tetrachloride	ppb	NC	NC	0.26 U	0.044 J	0.077 J	0.037 J	0.069 J	0.085 J	0.088 J	0.19 UJ	0.27 U	0.27 U	0.14 J	0.078 J
Chlorobenzene	ppb	NC	NC	0.16 U	0.049 U	0.049 U	0.020 U	0.049 U	0.049 U	0.049 U	0.24 U	0.35 U	0.35 U	0.060 UJ	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.27 U	0.40	0.56	0.29 J	0.37	0.36	0.32	0.80 J	0.26 U	0.36 J	4.4 J	0.72
Chloroethane	ppb	NC	NC	0.13 U	0.035 U	0.035 U	0.016 U	0.035 U	0.035 U	0.035 U	0.18 U	0.25 U	0.25 U	0.043 UJ	0.035 U
Chloroform (Trichloromethane)	ppb	800	8000	0.25 U	0.038 U	0.10 J	0.031 U	0.038 U	0.038 U	0.038 U	0.53 J	0.37 J	0.40 J	0.053 J	0.038 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.10 U	0.16 U	0.16 U	0.013 U	0.16 U	0.16 U	0.16 U	0.80 U	1.1 U	1.1 U	0.20 UJ	0.16 U
cis-1,2-Dichloroethene	ppb	370	3700	0.11 U	0.060 U	0.060 U	0.14 J	0.060 U	0.060 U	0.060 U	0.30 U	0.43 U	0.43 U	0.074 UJ	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.13 U	0.074 U	0.074 U	0.016 U	0.074 U	0.074 U	0.074 U	0.37 U	0.53 U	0.53 U	0.091 UJ	0.074 U
Cyclohexane	ppb	NC	NC	0.31 U	0.040 U	0.040 U	0.039 U	0.040 U	0.040 U	0.040 U	0.20 U	0.29 U	0.29 U	0.049 UJ	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.38 U	0.057 U	0.057 U	0.048 U	0.057 U	0.057 U	0.057 U	0.28 U	0.41 U	0.41 U	0.070 UJ	0.057 U
Dibromochloromethane	ppb	NC	NC	0.17 U	0.042 U	0.042 U	0.021 U	0.042 U	0.042 U	0.042 U	0.21 U	0.30 U	0.30 U	0.052 UJ	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.62 J	0.59	0.38	0.59	0.57	0.42	0.40	0.86 J	0.57 J	0.59 J	1.0 J	0.52
Ethylbenzene	ppb	2500	25000	0.18 U	0.068 U	0.068 U	0.022 U	0.068 U	0.068 UJ	0.42 J	0.34 U	0.49 U	0.49 U	0.084 UJ	0.068 U
Hexachlorobutadiene	ppb	NC	NC	0.52 U	0.078 UJ	0.078 UJ	0.065 U	0.078 UJ	0.078 UJ	0.078 UJ	0.39 U	0.56 U	0.56 U	0.096 UJ	0.078 U
Hexane	ppb	NC	NC	0.21 U	0.032 J	0.14 J	0.084 J	0.032 U	0.11 J	0.065 J	0.16 U	0.23 U	0.23 U	1.2 J	0.27 J
Isopropyl alcohol	ppb	NC	NC	0.30 U	0.88 J	0.37 J	0.057 U	0.32 J	0.30 J	0.22 J	0.34 J	0.44 J	0.31 U	0.71 J	0.31 J
Isopropyl benzene	ppb	NC	NC	0.25 U	0.060 U	0.060 U	0.031 U	0.060 U	0.060 U	0.060 U	0.30 U	0.43 U	0.43 U	0.074 UJ	0.060 U
m&p-Xylenes	ppb	2000	20000	0.38 U	0.12 U	0.12 U	0.074 J	0.12 U	0.15 J	2.6 J	0.60 U	0.86 U	0.86 U	0.19 J	0.12 U
Methyl methacrylate	ppb	NC	NC	0.10 U	0.079 U	0.079 U	0.013 U	0.079 U	0.079 U	0.14 J	0.40 U	0.56 U	0.56 U	0.097 UJ	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.13 U	0.17 U	0.17 U	0.016 U	0.17 U	0.17 U	0.17 U	0.85 U	1.2 U	1.2 U	0.21 UJ	0.17 U
Methylene chloride	ppb	NC	NC	0.61 U	0.18 J	1.1	0.11 U	0.12 J	0.045 U	0.045 U	0.22 U	0.75 J	0.82 J	3.9 J	0.37 J
Naphthalene	ppb	29	NC	0.69 U	0.090 UJ	0.090 U	0.086 U	0.090 UJ	0.090 U	0.090 U	0.45 UJ	0.64 U	0.64 U	0.11 UJ	0.090 U
N-Butylbenzene	ppb	NC	NC	0.44 U	0.046 U	0.046 U	0.055 U	0.046 U	0.046 U	0.14 J	0.23 U	0.33 U	0.33 U	0.057 UJ	0.046 U
N-Decane	ppb	NC	NC	-	-	0.074 J	-	-	0.056 U	0.080 J	0.28 U	0.40 U	0.40 U	0.20 J	0.086 J
N-Dodecane	ppb	NC	NC	-	-	0.078 U	-	-	0.10 J	0.078 U	0.39 UJ	0.56 U	0.56 U	0.32 J	0.078 U
N-Heptane	ppb	NC	NC	0.080 U	0.047 U	0.047 U	0.074 J	0.047 U	0.047 U	0.047 U	0.24 U	0.34 U	0.34 U	0.065 J	0.16 J
Nonane	ppb	NC	NC	-	-	0.043 U	-	-	0.043 U	0.058 J	0.22 U	0.31 U	0.31 U	0.053 UJ	0.091 J
N-Propylbenzene	ppb	NC	NC	0.40 U	0.056 U	0.056 U	0.050 U	0.056 U	0.056 U	0.19 J	0.28 U	0.40 U	0.40 U	0.069 UJ	0.056 U
N-Undecane	ppb	NC	NC	-	-	0.064 J	-	-	0.062 UJ	0.062 UJ	0.31 U	0.44 U	0.44 U	0.085 J	0.072 J
o-Xylene	ppb	2000	20000	0.18 U	0.061 U	0.061 U	0.031 J	0.061 U	0.062 J	1.2 J	0.30 U	0.44 U	0.44 U	0.075 UJ	0.061 U
Pentane	ppb	NC	NC	-	-	0.060 U	-	-	0.20 J	0.060 U	0.30 U	0.43 U	0.43 U	0.85 J	0.35 J
Styrene	ppb	NC	NC	0.24 U	0.058 U	0.058 U	0.030 U	0.058 U	0.058 U	0.058 U	0.29 U	0.41 U	0.41 U	0.071 UJ	0.058 U
tert-Butyl alcohol	ppb	NC	NC	0.57 U	0.061 J	0.14 J	0.071 U	0.050 J	0.23 J	0.12 J	0.19 U	1.1 J	0.55 J	0.21 J	0.15 J
tert-Butylbenzene	ppb	NC	NC	0.38 U	0.066 U	0.066 U	0.047 U	0.066 U	0.066 U	0.14 J	0.33 U	0.47 U	0.47 U	0.081 UJ	0.066 U

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250		2500	0.44 J	0.58	3.7	0.25	0.13 J	1.2	1.4	130	100	120	0.32 J	0.18 J
Tetrahydrofuran	ppb		NC	NC	0.14 U	0.063 U	0.063 U	0.018 U	0.063 U	0.063 U	0.063 U	0.32 U	0.45 U	0.45 U	0.077 UJ	0.063 U
Toluene	ppb		NC	NC	0.14 U	0.069 J	0.15 J	0.13 J	0.085 J	0.31 J	1.2 J	0.27 U	0.39 U	0.39 U	0.83 J	0.094 J
trans-1,2-Dichloroethene	ppb		NC	NC	0.26 U	0.050 U	0.050 U	0.032 U	0.050 U	0.050 U	0.050 U	0.25 U	0.36 U	0.36 U	0.062 UJ	0.050 U
trans-1,3-Dichloropropene	ppb		NC	NC	0.16 U	0.048 U	0.048 U	0.020 U	0.048 U	0.048 U	0.048 U	0.24 U	0.34 U	0.34 U	0.059 UJ	0.048 U
Trichloroethene	ppb	20		200	21[a]	24[a]	120[a]	0.26	0.074 J	1.1	1.1	0.18 U	0.26 U	0.26 U	0.044 UJ	0.036 U
Trichlorofluoromethane (CFC-11)	ppb		NC	NC	1.2 J	1.5	2.0	0.42	0.25	0.76	0.78	0.78 J	0.63 J	0.65 J	1.9 J	0.29
Trifluorotrichloroethane (Freon 113)	ppb		NC	NC	0.080 U	0.069 J	0.079 J	0.071 J	0.073 J	0.087 J	0.083 J	0.16 U	0.22 U	0.22 U	0.11 J	0.078 J
Vinyl bromide (Bromoethene)	ppb		NC	NC	0.15 U	0.035 U	0.035 U	0.019 U	0.035 U	0.035 U	0.035 U	0.18 U	0.25 U	0.25 U	0.043 UJ	0.035 U
Vinyl chloride	ppb	20		200	0.23 U	0.071 U	0.071 U	0.029 U	0.071 U	0.071 U	0.071 U	0.36 U	0.51 U	0.51 U	0.087 UJ	0.071 U
Xylenes (total)	ppb		NC	NC	0.18 U	-	-	0.10 J	-	-	-	-	-	-	-	-
Gases																
Methane	%	0.5		0.5	0.061 U	-	0.20 U	-	-	0.19 U	0.21 U	0.19 U	0.19 U	0.20 U	0.20 U	0.19 U
Field Parameter																
Methane, field (unfiltered)	%	0.5		0.5	0.0 / 0.0	-	-	0.0 / 0.0	-	-	-	0.0	-	-	-	-
Methane, field (filtered)	%	0.5		0.5	-	0.0 / 0	0.1 / 0	-	0 / 0.0	0 / 0	0 / 0	0	-	-	0 / 0	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***	***ODH Sub-Slab Screening Levels (Non-residential) a***		***ODH Sub-Slab Action Levels (Non-residential) b***	
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	160		1600	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	110			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	20		200	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	800		8000	
Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	370		3700	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	2500		25000	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	2000		20000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	29			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC
Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	2000		20000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250		2500	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	20		200	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	20		200	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.5		0.5	
Field Parameter					
Methane, field (unfiltered)	%	0.5		0.5	
Methane, field (filtered)	%	0.5		0.5	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***	***ODH Sub-Slab Screening Levels (Non-residential) a***		***ODH Sub-Slab Action Levels (Non-residential) b***	
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	160		1600	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	110			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	20		200	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	800		8000	
Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	370		3700	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	2500		25000	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	2000		20000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	29			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC
Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	2000		20000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC

TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Tetrachloroethene	ppb	250		2500	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	20		200	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	20		200	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.5		0.5	
Field Parameter					
Methane, field (unfiltered)	%	0.5		0.5	
Methane, field (filtered)	%	0.5		0.5	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
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TABLE E.1

SUMMARY OF INDUSTRIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*75' W of gate, 40' N of S Fence*	*Parcel 3207, Outdoor Air*	*Parcel 3207, Bldg 23*	*Parcel 3207, Bldg 23*	*Parcel 3207, Bldg 23, IA_A*	*Parcel 3207, Bldg 23, IA_A*	*Parcel 3207, Bldg 23, Cubicles*	*Parcel 3207, Bldg 23, Cubicles*	*Parcel 3207, Bldg 23, Cubicles*	*Parcel 3207, Bldg 23, IA_D*	*Parcel 3207, Bldg 23, IA_D*	*Parcel 3207, Bldg 23, IA_D*
Sample Location:						*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*
Owner / Tenant:					*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*
Sample ID:				*OA-38443-010512-JC-008*	*SS-38443-010712-JC-028*	*OA-38443-031012-JC-129*	*OA-38443-081112-GL-082*	*IA-38443-031012-JC-131*	*IA-38443-081112-GL-078*	*IA-38443-031012-JC-133*	*IA-38443-031012-JC-134*	*IA-38443-081112-GL-081*	*IA-38443-031012-JC-137*	*IA-38443-081112-GL-079*	*IA-38443-081112-GL-080*
Sample Date:				*1/5/2012*	*1/7/2012*	*3/10/2012*	*8/11/2012*	*3/10/2012*	*8/11/2012*	*3/10/2012*	*3/10/2012*	*8/11/2012*	*3/10/2012*	*8/11/2012*	*8/11/2012*
											Duplicate				*Duplicate*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)*	*ODH Indoor Air Action Levels (Non-residential)*												
		a	*b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.035 U	0.035 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.060 U	0.030 U	0.030 U	0.060 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.040 U	0.040 U	0.56	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.12 U	0.061 U	0.061 U	0.12 U
1,1,2-Trichloroethane	ppb	NC	NC	0.019 U	0.019 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.11 U	0.054 U	0.054 U	0.11 U
1,1-Dichloroethane	ppb	16	160	0.035 U	0.035 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U	0.052 U
1,1-Dichloroethene	ppb	NC	NC	0.030 U	0.030 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.064 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.050 U	0.050 U	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ	0.20 UJ	0.098 UJ	0.098 UJ	0.20 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.052 U	0.052 U	0.063 U	0.063 U	0.099 J	0.14 J	0.11 J	0.12 J	0.56	0.063 U	1.6	1.7
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.018 U	0.018 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U	0.088 U
1,2-Dichlorobenzene	ppb	NC	NC	0.048 U	0.048 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.14 U	0.070 U	0.070 U	0.14 U
1,2-Dichloroethane	ppb	NC	NC	0.031 U	0.031 U	0.047 U	0.047 U	0.047 U	0.14 J	0.047 U	0.060 J	0.20 J	0.047 U	0.11 J	0.12 J
1,2-Dichloroethene (total)	ppb	NC	NC	0.014 U	0.014 U	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.014 U	0.014 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.10 U	0.052 U	0.052 U	0.10 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.064 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.051 U	0.051 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.13 J	0.065 U	0.40	0.37 J
1,3-Butadiene	ppb	NC	NC	0.093 J	0.010 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.13 U
1,3-Dichlorobenzene	ppb	NC	NC	0.044 U	0.044 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.13 U	0.065 U	0.065 U	0.13 U
1,4-Dichlorobenzene	ppb	NC	NC	0.044 U	0.044 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.13 U
1,4-Dioxane	ppb	NC	NC	0.088 U	0.088 U	0.080 UJ	0.080 U	0.080 UJ	0.080 U	0.080 UJ	0.080 UJ	0.16 U	0.080 U	0.080 U	0.16 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.036 U	0.036 U	0.039 U	0.039 U	0.039 U	0.83	0.039 U	0.039 U	0.089 J	0.039 U	0.039 U	0.15 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.017 U	0.48 J	0.59 J	0.33 J	0.78 J	1.3	0.43 J	0.62 J	0.88 J	0.56 J	0.96 J	0.94 J
2-Chlorotoluene	ppb	NC	NC	0.047 U	0.047 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.13 U	0.063 U	0.063 U	0.13 U
2-Hexanone	ppb	NC	NC	0.039 U	0.039 U	0.058 UJ	0.058 U	0.058 UJ	0.058 U	0.058 UJ	0.058 UJ	0.12 U	0.058 U	0.060 J	0.12 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.047 U	0.047 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.13 U
4-Ethyl toluene	ppb	NC	NC	0.046 U	0.046 U	0.066 U	0.066 U	0.066 U	0.066 U	0.077 J	0.082 J	0.19 J	0.066 U	0.53	0.52 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.026 U	0.026 U	0.045 UJ	0.045 U	0.18 J	0.15 J	0.14 J	0.16 J	0.13 J	0.045 U	0.11 J	0.15 J
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	1.9 J	3.1 J	2.0 J	3.7 J	7.1	62	4.6 J	5.6	64	3.3 J	39	43
Allyl chloride	ppb	NC	NC	0.019 U	0.019 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.096 U
Benzene	ppb	2	20	0.018 U	0.16 J	0.15 J	0.057 J	0.15 J	0.086 J	0.15 J	0.15 J	0.12 J	0.15 J	0.074 J	0.11 U
Benzyl chloride	ppb	NC	NC	0.046 UJ	0.046 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.16 U	0.078 U	0.078 U	0.16 U
Bromodichloromethane	ppb	NC	NC	0.028 U	0.028 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U	0.088 U
Bromoform	ppb	NC	NC	0.019 U	0.019 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.096 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.012 U	0.012 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.064 U
Butane	ppb	NC	NC	2.4	1.2	1.2	0.13 J	0.93	0.64	0.97	0.84	0.96	2.3	0.75	0.95
Carbon disulfide	ppb	NC	NC	0.066 U	0.066 U	0.031 U	0.031 U	0.031 U	0.036 J	0.031 U	0.032 J	0.062 U	0.031 U	0.043 J	0.067 J
Carbon tetrachloride	ppb	NC	NC	0.033 U	0.069 J	0.076 J	0.070 J	0.062 J	0.070 J	0.074 J	0.082 J	0.078 J	0.068 J	0.072 J	0.086 J
Chlorobenzene	ppb	NC	NC	0.020 U	0.020 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.098 U	0.049 U	0.049 U	0.098 U
Chlorodifluoromethane	ppb	NC	NC	0.37 J	0.22 J	0.37	0.24	24	17	25	24	23	5.9	7.3	8.6
Chloroethane	ppb	NC	NC	0.016 U	0.016 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.070 U	0.035 U	0.035 U	0.070 U
Chloroform (Trichloromethane)	ppb	80	800	0.031 U	0.031 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.076 U	0.038 U	0.040 J	0.076 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.70	0.45 J	0.55	0.64	0.39 J	0.56	0.49 J	0.39 J	0.75 J	0.57	0.66	0.75 J
cis-1,2-Dichloroethene	ppb	37	370	0.014 U	0.014 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.12 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.016 U	0.016 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.15 U	0.074 U	0.074 U	0.15 U
Cyclohexane	ppb	NC	NC	0.039 U	0.039 U	0.040 U	0.040 U	0.040 U	0.053 J	0.040 U	0.040 U	0.080 U	0.040 U	0.044 J	0.080 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.048 U	0.048 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U	0.11 U	0.057 U	0.062 J	0.11 U
Dibromochloromethane	ppb	NC	NC	0.021 U	0.021 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.084 U	0.042 U	0.042 U	0.084 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.64	0.45 J	0.41	0.46	0.43	0.46	0.41	0.40	0.54	0.45	0.45	0.55
Ethylbenzene	ppb	250	2500	0.022 U	0.027 J	0.068 U	0.068 U	0.15 J	0.38	0.16 J	0.18 J	0.31 J	0.068 U	0.24	0.25 J
Hexachlorobutadiene	ppb	NC	NC	0.065 U	0.065 U	0.078 UJ	0.078 U	0.078 UJ	0.078 UJ	0.078 UJ	0.078 UJ	0.16 UJ	0.078 U	0.078 UJ	0.16 U
Hexane	ppb	NC	NC	0.026 U	0.15 J	0.10 J	0.064 J	0.12 J	0.098 J	0.12 J	0.12 J	0.10 J	0.13 J	0.10 J	0.12 J
Isopropyl alcohol	ppb	NC	NC	0.037 U	0.037 U	0.20 J	0.18 J	5.7	7.3	5.5	5.5	7.2	2.3	2.7 J	6.5 J
Isopropyl benzene	ppb	NC	NC	0.031 U	0.031 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.18 J	0.17 J
m&p-Xylenes	ppb	200	2000	0.048 U	0.059 J	0.12 U	0.12 U	0.47	1.0	0.47	0.53	0.88	0.12 U	0.64	0.61
Methyl methacrylate	ppb	NC	NC	0.013 U	0.013 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.16 U	0.079 U	0.079 U	0.16 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.016 U	0.016 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U	0.34 U
Methylene chloride	ppb	NC	NC	0.15 J	0.25 U	0.18 J	0.045 U	0.31 J	0.045 U	0.31 J	0.33 J	0.090 U	0.33 J	0.56 J	1.1 J
Naphthalene	ppb	2.9	NC	0.086 UJ	0.086 U	0.090 UJ	0.090 UJ	0.090 UJ	0.090 UJ	0.090 UJ	0.090 UJ	0.18 UJ	0.090 UJ	0.090 UJ	0.18 UJ
N-Butylbenzene	ppb	NC	NC	0.055 U	0.055 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.092 U	0.046 U	0.055 J	0.092 U
N-Decane	ppb	NC	NC	-	-	-	0.056 UJ	-	0.065 J	-	-	0.27 J	-	0.87 J	0.92 J
N-Dodecane	ppb	NC	NC	-	-	-	0.24 J	-	0.078 U	-	-	0.34 J	-	0.25 J	1.1 J
N-Heptane	ppb	NC	NC	0.010 U	0.073 J	0.047 U	0.047 U	0.097 J	0.43 J	0.11 J	0.11 J	0.41 J	0.081 J	0.29 J	0.37 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	Nonane	ppb		NC		NC	-	-	-	0.043 U	-	0.043 U	-	-
N-Propylbenzene	ppb		NC		NC	N-Propylbenzene	ppb		NC		NC	0.050 U	0.050 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U
N-Undecane	ppb		NC		NC	N-Undecane	ppb		NC		NC	-	-	-	0.074 J	-	0.080 J	-	-
Octane	ppb		NC		NC	Octane	ppb		NC		NC	-	-	-	0.10 J	-	0.14 J	-	-
o-Xylene	ppb	200		2000		o-Xylene	ppb	200		2000		0.022 U	0.022 U	0.061 U	0.061 U	0.14 J	0.31	0.13 J	0.14 J
Pentane	ppb		NC		NC	Pentane	ppb		NC		NC	-	-	-	0.15 J	-	6.2	-	-
Styrene	ppb		NC		NC	Styrene	ppb		NC		NC	0.030 U	0.030 U	0.058 U	0.058 U	0.082 J	0.066 J	0.097 J	0.091 J
tert-Butyl alcohol	ppb		NC		NC	tert-Butyl alcohol	ppb		NC		NC	0.071 U	0.071 U	0.040 J	0.038 U	0.17 J	0.26 J	0.13 J	0.16 J
tert-Butylbenzene	ppb		NC		NC	tert-Butylbenzene	ppb		NC		NC	0.047 U	0.047 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	25		250		Tetrachloroethene	ppb	25		250		0.011 U	0.011 U	0.092 J	0.040 U	0.040 U	0.040 U	0.083 J	0.040 U
Tetrahydrofuran	ppb		NC		NC	Tetrahydrofuran	ppb		NC		NC	0.018 U	0.018 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
Toluene	ppb		NC		NC	Toluene	ppb		NC		NC	0.018 U	0.16 J	0.21	0.22	0.80	0.67	0.68	0.75
trans-1,2-Dichloroethene	ppb		NC		NC	trans-1,2-Dichloroethene	ppb		NC		NC	0.032 U	0.032 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	trans-1,3-Dichloropropene	ppb		NC		NC	0.020 U	0.020 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	2		20		Trichloroethene	ppb	2		20		0.030 U	0.030 U	0.17 J	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.22	0.18 J	0.20	0.23	0.20	0.22	0.20	0.19 J
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.049 J	0.068 J	0.063 J	0.071 J	0.068 J	0.073 J	0.062 J	0.064 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	Vinyl bromide (Bromoethene)	ppb		NC		NC	0.019 U	0.019 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	2		20		Vinyl chloride	ppb	2		20		0.029 U	0.029 U	0.071 U	0.071 U	0.071 U	0.19 J	0.074 J	0.071 U
Xylenes (total)	ppb		NC		NC	Xylenes (total)	ppb		NC		NC	0.022 U	0.059 J	-	-	-	-	-	-
Gases						***Gases***													
Methane	%	0.05		0.05		Methane	%	0.05		0.05		-	-	-	0.20 U[ab]	-	0.21 U[ab]	-	-
Field Parameter						***Field Parameter***													
Methane, field (unfiltered)	%	0.05		0.05		Methane, field (unfiltered)	%	0.05		0.05		0.0 / 0.0	0.0 / 0.0	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		Methane, field (filtered)	%	0.05		0.05		-	-	0 / 0.0	0 / 0	0 / 0.0	0 / 0	0.0 / 0.0	0.0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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EPA-R5-2016-005983 Outlook0000971

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3207, Bldg 23, Cubicles*	*Parcel 3207, Bldg 23, IA_D*	*Parcel 3207, Bldg 23, IA_D*	*Parcel 3207, Bldg 23, IA_D*	*Parcel 3207, Bldg 24*	*Parcel 3207, Bldg 24*	*Parcel 3207, Bldg 24*	*Parcel 3207, Bldg 24, IA_A*	*Parcel 3207, Bldg 24, IA_A*	*Parcel 3207, Bldg 24, IA_C*	*Parcel 3207, Bldg 24, IA_C*	*Parcel 3207, Bldg 24, IA_C*
Sample Location:				*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2153 Dryden Road*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*
Owner / Tenant:				*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*
Sample ID:				*IA-38443-081112-GL-081*	*IA-38443-031012-JC-137*	*IA-38443-081112-GL-079*	*IA-38443-081112-GL-080*	*OA-38443-031012-JC-130*	*OA-38443-081112-GL-091*	*OA-38443-081112-GL-092*	*IA-38443-031012-JC-140*	*IA-38443-081112-GL-084*	*IA-38443-031012-JC-144*	*IA-38443-031012-JC-145*	*IA-38443-081112-GL-087*
Sample Date:				*8/11/2012*	*3/10/2012*	*8/11/2012*	*8/11/2012*	*3/10/2012*	*8/11/2012*	*8/11/2012*	*3/10/2012*	*8/11/2012*	*3/10/2012*	*3/10/2012*	*8/11/2012*
							Duplicate			*Duplicate*				*Duplicate*	
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.060 U	0.030 U	0.030 U	0.060 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.036 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.12 U	0.061 U	0.061 U	0.12 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.11 U	0.054 U	0.054 U	0.11 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.052 U	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.064 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.20 UJ	0.098 UJ	0.098 UJ	0.20 UJ	0.098 UJ	0.098 UJ	0.098 U	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.56	0.063 U	1.6	1.7	0.063 U	0.063 U	0.13 J	0.38	1.4	0.42	0.35	1.1
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.088 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.14 U	0.070 U	0.070 U	0.14 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.20 J	0.047 U	0.11 J	0.12 J	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.10 U	0.052 U	0.052 U	0.10 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.064 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.13 J	0.065 U	0.40	0.37 J	0.065 U	0.065 U	0.065 U	0.099 J	0.23	0.11 J	0.19 J	0.21
1,3-Butadiene	ppb	NC	NC	0.13 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.13 U	0.065 U	0.065 U	0.13 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.13 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.16 U	0.080 U	0.080 U	0.16 U	0.080 UJ	0.080 U	0.080 U	0.080 UJ	0.080 U	0.080 UJ	0.080 UJ	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.089 J	0.039 U	0.039 U	0.15 J	0.039 U	0.24 J	0.039 U	0.091 J	0.078 J	0.091 J	0.099 J	0.11 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.88 J	0.56 J	0.96 J	0.94 J	0.40 J	0.47 J	0.31 J	1.1	1.3	1.6	1.1	2.0
2-Chlorotoluene	ppb	NC	NC	0.13 U	0.063 U	0.063 U	0.13 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.12 U	0.058 U	0.060 J	0.12 U	0.058 UJ	0.058 U	0.058 U	0.058 UJ	0.11 J	0.058 UJ	0.058 UJ	0.17 J
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.13 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.064 U	0.064 U	0.067 J	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.19 J	0.066 U	0.53	0.52 J	0.066 U	0.066 U	0.066 U	0.19 J	0.24 J	0.22 J	0.16 J	0.24 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.13 J	0.045 U	0.11 J	0.15 J	0.045 UJ	0.045 U	0.045 U	3.7 J	15	4.4 J	3.5 J	5.9
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	64	3.3 J	39	43	1.4 U	6.0	3.7 J	23	25	42	30	46
Allyl chloride	ppb	NC	NC	0.096 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Benzene	ppb	2	20	0.12 J	0.15 J	0.074 J	0.11 U	0.14 J	0.071 J	0.065 J	0.23	0.22	0.24	0.25	0.37
Benzyl chloride	ppb	NC	NC	0.16 U	0.078 U	0.078 U	0.16 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.088 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.096 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.064 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	0.96	2.3	0.75	0.95	1.5	0.22 J	0.22 J	4.0	2.1	4.9	4.7	4.7
Carbon disulfide	ppb	NC	NC	0.062 U	0.031 U	0.043 J	0.067 J	0.031 U	0.031 U	0.031 U	0.031 U	0.15 J	0.042 J	0.040 J	0.18 J
Carbon tetrachloride	ppb	NC	NC	0.078 J	0.068 J	0.072 J	0.086 J	0.091 J	0.076 J	0.068 J	0.076 J	0.074 J	0.082 J	0.080 J	0.072 J
Chlorobenzene	ppb	NC	NC	0.098 U	0.049 U	0.049 U	0.098 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	23	5.9	7.3	8.6	0.96	0.30	0.26	1.1	2.5	0.96	1.0	7.1
Chloroethane	ppb	NC	NC	0.070 U	0.035 U	0.035 U	0.070 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.076 U	0.038 U	0.040 J	0.076 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.038 U	0.039 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.75 J	0.57	0.66	0.75 J	0.52	0.61	0.54	0.58	0.72	0.47 J	0.59	0.59
cis-1,2-Dichloroethene	ppb	37	370	0.12 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.15 U	0.074 U	0.074 U	0.15 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	0.080 U	0.040 U	0.044 J	0.080 U	0.040 U	0.052 J	0.040 U	0.42 J	0.77	0.48 J	0.46 J	1.2
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.11 U	0.057 U	0.062 J	0.11 U	0.057 U	0.057 U	0.057 U	0.076 J	0.21	0.098 J	0.068 J	0.15 J
Dibromochloromethane	ppb	NC	NC	0.084 U	0.042 U	0.042 U	0.084 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.54	0.45	0.45	0.55	0.45	0.53	0.42	0.42	0.48	0.47	0.43	0.46
Ethylbenzene	ppb	250	2500	0.31 J	0.068 U	0.24	0.25 J	0.068 U	0.068 U	0.068 U	2.1	3.2	2.2	1.8	2.9
Hexachlorobutadiene	ppb	NC	NC	0.16 UJ	0.078 U	0.078 UJ	0.16 U	0.078 UJ	0.078 UJ	0.078 U	0.078 UJ	0.078 UJ	0.078 UJ	0.078 UJ	0.078 UJ
Hexane	ppb	NC	NC	0.10 J	0.13 J	0.10 J	0.12 J	0.12 J	0.15 J	0.12 J	0.32 J	0.44 J	0.37 J	0.34 J	0.83
Isopropyl alcohol	ppb	NC	NC	7.2	2.3	2.7 J	6.5 J	0.20 J	0.30 J	0.17 J	11	9.6	14	11	18
Isopropyl benzene	ppb	NC	NC	0.12 U	0.060 U	0.18 J	0.17 J	0.060 U	0.060 U	0.060 U	0.080 J	0.12 J	0.086 J	0.073 J	0.14 J
m&p-Xylenes	ppb	200	2000	0.88	0.12 U	0.64	0.61	0.12 U	0.12 U	0.20	8.4	11	9.6	7.4	7.9
Methyl methacrylate	ppb	NC	NC	0.16 U	0.079 U	0.079 U	0.16 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 J	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.34 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	0.090 U	0.33 J	0.56 J	1.1 J	0.59	0.045 U	0.77	0.53	0.045 U	0.26 J	0.35 J	0.53
Naphthalene	ppb	2.9	NC	0.18 UJ	0.090 UJ	0.090 UJ	0.18 UJ	0.090 UJ	0.090 UJ	0.10 J	0.090 UJ	0.096 J	0.090 UJ	0.090 UJ	0.13 J
N-Butylbenzene	ppb	NC	NC	0.092 U	0.046 U	0.055 J	0.092 U	0.046 U	0.046 U	0.046 U	0.046 U	0.050 J	0.046 U	0.046 U	0.061 J
N-Decane	ppb	NC	NC	0.27 J	-	0.87 J	0.92 J	-	0.056 UJ	0.16 J	-	0.30 J	-	-	0.74 J
N-Dodecane	ppb	NC	NC	0.34 J	-	0.25 J	1.1 J	-	0.078 U	0.078 U	-	0.47 J	-	-	0.93 J
N-Heptane	ppb	NC	NC	0.41 J	0.081 J	0.29 J	0.37 J	0.047 U	0.17 J	0.047 U	1.1	0.72	1.3	1.4	1.6

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	0.15 J	-	0.25 J	0.23 J	-	0.043 U	0.043 U	-	0.12 J	-	-	0.20 J
N-Propylbenzene	ppb		NC		NC	0.11 J	0.056 U	0.32 J	0.31 J	0.056 U	0.056 U	0.056 U	0.092 J	0.15 J	0.10 J	0.079 J	0.17 J
N-Undecane	ppb		NC		NC	0.40 J	-	0.57 J	1.3 J	-	0.062 U	0.086 J	-	0.72 J	-	-	1.8
Octane	ppb		NC		NC	0.12 J	-	0.14 J	0.12 J	-	0.036 U	0.036 U	-	0.12 J	-	-	0.21 J
o-Xylene	ppb	200		2000		0.30 J	0.061 U	0.29	0.28 J	0.061 U	0.061 U	0.061 U	3.9	6.4	4.5	3.6	3.7
Pentane	ppb		NC		NC	8.3	-	5.7	7.0	-	0.25 J	0.20 J	-	1.4	-	-	2.8
Styrene	ppb		NC		NC	0.29 J	0.058 U	0.55	0.51	0.058 U	0.058 U	0.058 U	2.6	4.4	2.2	1.7	3.1
tert-Butyl alcohol	ppb		NC		NC	0.27 J	0.12 J	0.11 J	0.44 J	0.038 U	0.081 J	0.038 U	0.13 J	0.71 J	0.19 J	0.14 J	0.66 J
tert-Butylbenzene	ppb		NC		NC	0.13 U	0.066 U	0.066 U	0.13 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	25		250		0.080 U	0.040 U	0.040 U	0.080 U	0.060 J	0.040 U	0.040 U	0.23	0.22	0.28	0.30	0.44
Tetrahydrofuran	ppb		NC		NC	0.13 U	0.063 U	0.063 U	0.13 U	0.063 U	0.063 U	0.063 U	0.063 U	0.34 J	0.20 J	0.063 U	0.26 J
Toluene	ppb		NC		NC	0.79	0.46	1.0	1.0	0.16 J	0.97	0.64	6.6	8.0	5.7	5.2	14
trans-1,2-Dichloroethene	ppb		NC		NC	0.10 U	0.050 U	0.050 U	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.096 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	2		20		0.072 U	0.051 J	0.036 U	0.093 J	0.036 U	0.036 U	0.036 U	0.057 J	0.053 J	0.071 J	0.070 J	0.12 J
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.26 J	0.24	0.23	0.30 J	0.24	0.26	0.23	0.23	0.24	0.23	0.23	0.27
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.081 J	0.070 J	0.072 J	0.082 J	0.068 J	0.081 J	0.069 J	0.063 J	0.078 J	0.069 J	0.062 J	0.073 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.070 U	0.035 U	0.035 U	0.070 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	2		20		0.25 J	0.071 U	0.10 J	0.14 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	-	-
Gases																	
Methane	%	0.05		0.05		0.19 U[ab]	-	0.21 U[ab]	0.19 U[ab]	-	0.19 U[ab]	0.21 U[ab]	-	0.19 U[ab]	-	-	0.20 U[ab]
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0 / 0	0.0 / 0.0	0 / 0	0 / 0	0.0 / 0	0 / 0	0 / 0	0.0 / 0	0 / 0	0.0 / 0	0 / 0.0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3207, Bldg 24, IA_D*	*Parcel 3207, Bldg 24, IA_D*	*Parcel 3207, Bldg 24, IA_F*	*Parcel 3207, Bldg 24, IA_F*	*Parcel 3254*	*Parcel 3254, Bldg 25, IA_A*	*Parcel 3254, Bldg 25, IA_B*	*Parcel 4610, Bldg 20*	*Parcel 4610, Bldg 20*	*Parcel 4610, Bldg 21*	*Parcel 4610, Bldg 21*	*Parcel 5054*	*Parcel 5054, Bldg 1*
Sample Location:				*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2215 & 2219 East River Rd*	*2233 Rear East River Road*	*2233 Rear East River Road*	*2233 Rear East River Road*	*225C East River Roa*	*225C East River Roa*	*225D East River Roa*	*225D East River Roa*	*1901 Dryden Road*	*1901 Dryden Road*
Owner / Tenant:				*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Globe Equipment*	*Middleton Trucking*	*Middleton Trucking*	*Middleton Trucking*	*n Barnett Construction*	*Barnett Construction*	*Barnett Construction*	*Barnett Constructio*	*Valley Asphalt*	*Valley Asphalt*
Sample ID:				*IA-38443-031012-JC-148*	*IA-38443-081112-GL-089*	*IA-38443-031012-JC-151*	*IA-38443-081112-GL-094*	*OA-38443-091212-GL-015*	*IA-38443-091212-GL-012*	*IA-38443-091212-GL-014*	-	-	-	-	*OA-38443-011012-JC-047*	*OA-38443-031312-JC-154*
Sample Date:				*3/10/2012*	*8/11/2012*	*3/10/2012*	*8/11/2012*	*9/12/2012*	*9/12/2012*	*9/12/2012*	*1/5/2012*	*7/31/2012*	*1/6/2012*	*7/31/2012*	*1/10/2012*	*3/13/2012*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.060 U	0.060 U	-	-	-	-	0.035 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.12 U	0.12 U	-	-	-	-	0.040 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.11 U	0.11 U	-	-	-	-	0.019 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.052 U	0.052 U	-	-	-	-	0.035 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.064 U	-	-	-	-	0.030 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.098 UJ	0.098 UJ	0.098 U	0.098 UJ	0.20 UJ	0.20 UJ	-	-	-	-	0.050 U	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.14 J	0.57	0.38	1.2	0.095 J	4.0	2.2	-	-	-	-	0.10 J	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	0.088 U	-	-	-	-	0.018 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.095 J	0.070 U	0.070 U	0.14 U	0.14 U	-	-	-	-	0.048 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.066 J	0.047 U	0.047 U	0.047 U	0.094 U	0.094 U	-	-	-	-	0.031 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-	0.014 U	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.10 U	0.10 U	-	-	-	-	0.014 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.064 U	-	-	-	-	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.12 J	0.088 J	0.25	0.065 U	0.85	0.57	-	-	-	-	0.051 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.13 U	-	-	-	-	0.087 J	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.13 U	0.13 U	-	-	-	-	0.044 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.13 U	-	-	-	-	0.044 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 UJ	0.080 U	0.080 UJ	0.080 U	0.080 U	0.16 U	0.16 U	-	-	-	-	0.088 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.058 J	0.070 J	0.17 J	0.16 J	0.093 J	5.2	5.2	-	-	-	-	0.11 J	0.039 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.64 J	1.5	1.7	1.8	0.49 J	0.57 J	0.60 J	-	-	-	-	0.33 J	0.30 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.13 U	0.13 U	-	-	-	-	0.047 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 UJ	0.12 J	0.058 UJ	0.12 J	0.058 U	0.12 U	0.12 U	-	-	-	-	0.039 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.13 U	-	-	-	-	0.047 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.095 J	0.16 J	0.18 J	0.44	0.066 U	1.2	0.55 J	-	-	-	-	0.046 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.78 J	3.2	2.3 J	3.8	0.045 U	0.15 J	0.26 J	-	-	-	-	0.026 U	0.045 U
Acetaldehyde	ppb	11	NC	-	-	-	-	15 J*	20 UJ*	20 UJ*	-	-	-	-	-	-
Acetone	ppb	NC	NC	16	58	50	21	5.6	19	48	-	-	-	-	2.6 J	2.1 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.096 U	-	-	-	-	0.019 U	0.048 U
Benzene	ppb	2	20	0.19 J	0.24	0.31	0.69	0.21	2.7*	2.1*	-	-	-	-	0.41	0.096 J
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.16 U	0.16 U	-	-	-	-	0.046 UJ	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	0.088 U	-	-	-	-	0.028 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.096 U	-	-	-	-	0.019 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.064 U	-	-	-	-	0.012 U	0.032 U
Butane	ppb	NC	NC	4.2	9.6	11	6.6	1.2	4.9	6.3	-	-	-	-	1.8	1.4
Carbon disulfide	ppb	NC	NC	0.031 U	0.16 J	0.031 U	0.16 J	0.031 U	0.062 U	0.062 U	-	-	-	-	0.066 U	0.031 U
Carbon tetrachloride	ppb	NC	NC	0.075 J	0.080 J	0.077 J	0.067 J	0.074 J	0.090 J	0.092 J	-	-	-	-	0.070 J	0.071 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.063 J	0.049 U	0.049 U	0.098 U	0.098 U	-	-	-	-	0.020 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	1.3	27	0.88	5.9	0.42	0.40	0.44	-	-	-	-	0.37 J	0.67
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.093 J	0.070 U	-	-	-	-	0.016 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	0.079 J	0.038 U	0.041 J	0.038 U	0.076 U	0.076 U	-	-	-	-	0.13 J	0.038 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.51	0.82	0.31 J	0.56	0.65	0.74 J	0.73 J	-	-	-	-	0.53	0.56
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.12 U	-	-	-	-	0.014 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.15 U	0.15 U	-	-	-	-	0.016 U	0.074 U
Cyclohexane	ppb	NC	NC	0.31 J	1.4	0.65	1.4	0.087 J	0.080 U	0.080 U	-	-	-	-	0.17 J	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.098 J	0.13 J	0.099 J	0.057 U	0.11 U	0.11 U	-	-	-	-	0.048 U	0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.084 U	0.084 U	-	-	-	-	0.021 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.38	0.43	0.42	0.44	0.52	0.55	0.57	-	-	-	-	0.52	0.38
Ethylbenzene	ppb	250	2500	0.63	1.4	1.4	2.4	0.11 J	3.0	2.0	-	-	-	-	0.098 J	0.068 U
Hexachlorobutadiene	ppb	NC	NC	0.078 UJ	0.078 UJ	0.078 UJ	0.078 U	0.078 UJ	0.16 UJ	0.16 UJ	-	-	-	-	0.065 U	0.078 U
Hexane	ppb	NC	NC	0.30 J	0.49 J	0.56	1.6	0.27 J	5.4	4.9	-	-	-	-	0.37	0.16 J
Isopropyl alcohol	ppb	NC	NC	25	61	8.8	13	0.55 J	4.7	4.3	-	-	-	-	0.037 U	0.29 J
Isopropyl benzene	ppb	NC	NC	0.060 U	0.074 J	0.060 U	0.11 J	0.060 U	0.25 J	0.19 J	-	-	-	-	0.031 U	0.060 U
m&p-Xylenes	ppb	200	2000	2.5	3.7	5.9	7.3	0.35	11	7.2	-	-	-	-	0.29 J	0.12 J
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	0.079 U	0.12 J	0.079 U	0.16 U	0.16 U	-	-	-	-	0.039 J	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.34 U	-	-	-	-	0.016 U	0.17 U
Methylene chloride	ppb	NC	NC	2.0	0.045 U	0.25 J	0.63	0.35 U	0.43 U	0.66 U	-	-	-	-	0.13 U	0.26 J
Naphthalene	ppb	2.9	NC	0.090 UJ	0.090 UJ	0.090 UJ	0.15 J	0.090 UJ	0.41 J	0.19 J	-	-	-	-	0.086 UJ	0.090 U
N-Butylbenzene	ppb	NC	NC	0.046 U	0.046 U	0.051 J	0.080 J	0.046 U	0.36 J	0.23 J	-	-	-	-	0.055 U	0.046 U
N-Decane	ppb	NC	NC	-	0.36 J	-	0.74 J	0.080 J	0.54 J	0.49 J	-	-	-	-	-	-
N-Dodecane	ppb	NC	NC	-	0.078 U	-	0.86 J	0.078 U	0.41 J	0.26 J	-	-	-	-	-	-
N-Heptane	ppb	NC	NC	0.65	1.1	2.7	3.1	0.20 J	27	19	-	-	-	-	0.32	0.091 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	0.17 J	-	0.22 J	0.043 U	0.67 J	0.56 J	-	-	-	-	-	-
N-Propylbenzene	ppb		NC		NC	0.056 U	0.10 J	0.086 J	0.24 J	0.056 U	0.63 J	0.41 J	-	-	-	-	0.050 U	0.056 U
N-Undecane	ppb		NC		NC	-	0.31 J	-	1.5	0.063 J	0.37 J	0.32 J	-	-	-	-	-	-
Octane	ppb		NC		NC	-	0.18 J	-	0.38 J	0.053 J	1.3	1.0	-	-	-	-	-	-
o-Xylene	ppb	200		2000		1.1	1.7	2.7	3.1	0.13 J	4.1	2.6	-	-	-	-	0.11 J	0.061 U
Pentane	ppb		NC		NC	-	1.8	-	5.1	0.84 J	8.7	9.7	-	-	-	-	-	-
Styrene	ppb		NC		NC	0.54	1.0	1.2	2.1	0.058 U	0.12 J	0.12 U	-	-	-	-	0.030 U	0.058 U
tert-Butyl alcohol	ppb		NC		NC	0.11 J	0.25 J	0.12 J	0.32 J	0.038 UJ	0.088 J	0.098 J	-	-	-	-	0.071 U	0.038 U
tert-Butylbenzene	ppb		NC		NC	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.13 U	0.13 U	-	-	-	-	0.047 U	0.066 U
Tetrachloroethene	ppb	25		250		0.11 J	0.24	0.17 J	0.23	0.072 J	0.080 U	0.085 J	-	-	-	-	0.088 J	0.040 U
Tetrahydrofuran	ppb		NC		NC	0.063 U	0.12 J	0.063 U	0.71 J	0.080 J	0.13 U	0.13 U	-	-	-	-	0.018 U	0.063 U
Toluene	ppb		NC		NC	2.4	8.1	5.8	29	0.66	12	7.7	-	-	-	-	0.63	0.45
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.10 U	-	-	-	-	0.032 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.096 U	-	-	-	-	0.020 U	0.048 U
Trichloroethene	ppb	2		20		0.15 J	0.37	0.15 J	0.065 J	0.045 J	0.13 J	0.21 J	-	-	-	-	0.030 U	0.036 U
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.23	0.21	0.20	0.22	0.34	0.32 J	0.36 J	-	-	-	-	0.24	0.22
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.060 J	0.069 J	0.075 J	0.069 J	0.075 J	0.14 J	0.23 J	-	-	-	-	0.070 J	0.058 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.070 U	0.070 U	-	-	-	-	0.019 U	0.035 U
Vinyl chloride	ppb	2		20		0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U	0.14 U	-	-	-	-	0.029 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	-	0.39	-
Gases																		
Methane	%	0.05		0.05		-	0.20 U[ab]	-	0.19 U[ab]	0.21 U[ab]	0.19 U[ab]	0.19 U[ab]	-	-	-	-	-	-
Field Parameter																		
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	0.0 / 0.0	-	0.0 / 0.0	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.05		0.05		0.0 / 0	0 / 0	0 / 0.0	0 / 0	-	-	-	-	0 / 0	-	0 / 0	-	0.0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5054, Bldg 1, IA*	*Parcel 5054, Bldg 1, IA*	*Parcel 5054, Bldg 2*	*Parcel 5054, Bldg 2, IA_A*	*Parcel 5054, Bldg 2, IA_A*	*Parcel 5054, Bldg 2, IA_B*	*Parcel 5054, Bldg 3*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4*	*Parcel 5054, Bldg 4, IA 1st Fl.*
Sample Location:				*1901 Dryden Road*	*1901 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*	*1903 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*
Owner / Tenant:				*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*
Sample ID:				*IA-38443-031312-JC-155*	*IA-38443-080612-GL-056*	*OA-38443-031312-JC-157*	*IA-38443-031312-JC-158*	*IA-38443-031312-JC-162*	*IA-38443-031312-JC-161*	-	*OA-38443-031312-JC-165*	*OA-38443-031312-JC-165*	*OA-38443-080612-GL-051*	*OA-38443-091312-GL-025*	*IA-38443-031312-JC-166*
Sample Date:				*3/13/2012*	*8/6/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*1/10/2012*	*3/12/2012*	*3/13/2012*	*8/6/2012*	*9/13/2012*	*3/12/2012*
								Duplicate							
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.031 J	0.030 U	0.030 U	0.030 U	0.030 U	-	-	0.030 U	0.030 U	0.030 U	-
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	-	-	0.061 U	0.061 U	0.061 U	-
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	-	-	0.054 U	0.054 U	0.054 U	-
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	-	-	0.026 U	0.026 U	0.026 U	-
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	-	-	0.032 U	0.032 U	0.032 U	-
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 U	0.098 UJ	0.098 U	0.098 U	0.098 U	0.098 U	-	-	0.098 U	0.098 UJ	0.098 U	-
1,2,4-Trimethylbenzene	ppb	NC	NC	0.063 U	0.16 J	0.063 U	0.32	0.30	0.22	-	-	0.11 J	0.088 J	0.18 J	-
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	-	-	0.044 U	0.044 U	0.044 U	-
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	-	-	0.070 U	0.070 U	0.070 U	-
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	-	-	0.047 U	0.047 U	0.047 U	-
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	-	-	0.052 U	0.052 U	0.052 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	-	-	0.032 U	0.032 U	0.032 U	-
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.097 J	0.065 U	0.093 J	0.088 J	0.067 J	-	-	0.065 U	0.065 U	0.065 U	-
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	-	-	0.064 U	0.064 U	0.064 U	-
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	-	-	0.065 U	0.065 U	0.065 U	-
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	-	-	0.064 U	0.064 U	0.064 UJ	-
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 J	0.080 U	0.080 U	0.080 U	0.080 U	-	-	0.080 U	0.080 U	0.080 UJ	-
2,2,4-Trimethylpentane	ppb	NC	NC	0.039 U	3.9	0.039 U	0.094 J	0.095 J	0.099 J	-	-	0.039 U	0.048 J	0.090 J	-
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.33 J	1.5	0.64 J	0.52 J	0.42 J	0.62 J	-	-	0.46 J	0.56 J	0.53 J	-
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	-	-	0.063 U	0.063 U	0.063 U	-
2-Hexanone	ppb	NC	NC	0.058 U	0.26 J	0.058 U	0.058 U	0.058 U	0.058 U	-	-	0.058 U	0.058 U	0.058 U	-
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	-	-	0.077 J	0.064 U	0.064 U	-
4-Ethyl toluene	ppb	NC	NC	0.066 U	0.17 J	0.066 U	0.17 J	0.12 J	0.11 J	-	-	0.066 U	0.066 U	0.076 J	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.045 U	0.22 J	0.053 J	0.045 U	0.045 U	0.045 U	-	-	0.045 U	0.045 U	0.062 J	-
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	15 J*	-
Acetone	ppb	NC	NC	6.7	24	5.6	4.2 J	3.8 J	5.8	-	-	2.8 J	5.6	3.7 J	-
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	-	-	0.048 U	0.048 U	0.048 U	-
Benzene	ppb	2	20	0.11 J	0.22	0.10 J	0.31	0.30	0.32	-	-	0.11 J	0.13 J	0.15 J	-
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	-	-	0.078 U	0.078 U	0.078 U	-
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	-	-	0.044 U	0.044 U	0.044 U	-
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	-	-	0.048 U	0.048 U	0.048 UJ	-
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.093 J	0.032 U	0.043 J	0.032 U	0.032 U	-	-	0.032 U	0.032 U	0.032 U	-
Butane	ppb	NC	NC	2.2	3.9	0.78	1.3	1.2	2.1	-	-	2.8	0.43	0.94	-
Carbon disulfide	ppb	NC	NC	0.031 U	0.34 J	0.031 U	0.031 U	0.031 U	0.031 U	-	-	0.062 J	0.031 U	0.031 U	-
Carbon tetrachloride	ppb	NC	NC	0.068 J	0.088 J	0.074 J	0.071 J	0.065 J	0.068 J	-	-	0.074 J	0.070 J	0.061 J	-
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	-	-	0.049 U	0.049 U	0.049 U	-
Chlorodifluoromethane	ppb	NC	NC	7.0	21	0.52	0.42	0.41	0.67	-	-	1.3	0.26	0.36	-
Chloroethane	ppb	NC	NC	0.035 U	0.15 J	0.035 U	0.035 U	0.035 U	0.035 U	-	-	0.077 J	0.035 U	0.035 U	-
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	0.059 J	0.038 U	0.038 U	0.038 U	0.038 U	-	-	0.038 U	0.038 U	0.053 J	-
Chloromethane (Methyl chloride)	ppb	NC	NC	0.51	1.8	0.54	0.49 J	0.66	0.54	-	-	0.76	0.54	0.47 J	-
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.24	0.060 U	0.060 U	0.060 U	0.060 U	-	-	0.060 U	0.060 U	0.060 U	-
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	-	-	0.074 U	0.074 U	0.074 U	-
Cyclohexane	ppb	NC	NC	0.040 U	0.49 J	0.040 U	0.072 J	0.12 J	0.16 J	-	-	0.040 U	0.13 J	0.12 J	-
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.079 J	0.37	0.057 U	0.057 U	0.057 U	0.057 U	-	-	0.057 U	0.057 U	0.057 U	-
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	-	-	0.042 U	0.042 U	0.042 U	-
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.41	0.59	0.42	0.41	0.43	0.39	-	-	0.41	0.45	0.44	-
Ethylbenzene	ppb	250	2500	0.068 U	2.0	0.068 U	0.17 J	0.16 J	0.15 J	-	-	0.072 J	0.072 J	0.11 J	-
Hexachlorobutadiene	ppb	NC	NC	0.078 U	0.078 UJ	0.078 U	0.078 U	0.078 U	0.078 U	-	-	0.078 U	0.078 UJ	0.078 U	-
Hexane	ppb	NC	NC	0.13 J	0.40 J	0.10 J	0.40 J	0.41 J	0.44 J	-	-	0.22 J	0.15 J	0.26 J	-
Isopropyl alcohol	ppb	NC	NC	0.53 J	3.5	0.43 J	0.31 J	0.32 J	0.46 J	-	-	0.33 J	0.44 J	0.60 J	-
Isopropyl benzene	ppb	NC	NC	0.060 U	0.17 J	0.060 U	0.060 U	0.060 U	0.060 U	-	-	0.060 U	0.060 U	0.060 U	-
m&p-Xylenes	ppb	200	2000	0.17 J	5.9	0.16 J	0.64	0.61	0.61	-	-	0.24	0.21	0.35	-
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	-	-	0.079 U	0.079 U	0.079 U	-
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	-	-	0.17 U	0.17 U	0.17 U	-
Methylene chloride	ppb	NC	NC	0.19 J	0.78	0.20 J	0.15 J	0.15 J	0.24 J	-	-	0.62	0.24 J	0.45 J	-
Naphthalene	ppb	2.9	NC	0.090 U	0.090 UJ	0.090 U	0.090 U	0.090 U	0.090 U	-	-	0.090 U	0.090 UJ	0.090 U	-
N-Butylbenzene	ppb	NC	NC	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U	-	-	0.046 U	0.046 U	0.046 U	-
N-Decane	ppb	NC	NC	-	0.29 J	-	-	-	-	-	-	-	0.18 J	0.27 J	-
N-Dodecane	ppb	NC	NC	-	0.27 J	-	-	-	-	-	-	-	0.11 J	0.16 J	-
N-Heptane	ppb	NC	NC	0.28 J	1.7	0.064 J	0.12 J	0.12 J	0.20 J	-	-	0.056 J	0.11 J	0.29 J	-

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	0.21 J	-	-	-	-	-	-	-	0.077 J	0.13 J	-
N-Propylbenzene	ppb		NC		NC	0.056 U	0.13 J	0.056 U	0.056 U	0.056 U	0.056 U	-	-	0.056 U	0.056 U	0.056 U	-
N-Undecane	ppb		NC		NC	-	0.36 J	-	-	-	-	-	-	-	0.11 J	0.24 J	-
Octane	ppb		NC		NC	-	0.87	-	-	-	-	-	-	-	0.068 J	0.089 J	-
o-Xylene	ppb	200		2000		0.061 U	1.5	0.061 U	0.22	0.21	0.21	-	-	0.081 J	0.085 J	0.14 J	-
Pentane	ppb		NC		NC	-	1.6	-	-	-	-	-	-	-	0.34 J	0.54 J	-
Styrene	ppb		NC		NC	0.058 U	0.11 J	0.058 U	0.058 U	0.058 U	0.058 U	-	-	0.058 U	0.058 U	0.058 U	-
tert-Butyl alcohol	ppb		NC		NC	0.046 J	0.19 J	0.11 J	0.12 J	0.14 J	0.095 J	-	-	0.26 J	0.038 U	0.038 U	-
tert-Butylbenzene	ppb		NC		NC	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	-	-	0.066 U	0.066 U	0.066 U	-
Tetrachloroethene	ppb	25		250		0.040 U	0.25	0.040 U	0.040 U	0.040 U	0.040 U	-	-	0.040 U	0.040 U	0.040 U	-
Tetrahydrofuran	ppb		NC		NC	0.063 U	0.33 J	0.23 J	0.063 U	0.063 U	0.063 U	-	-	0.063 U	0.063 U	0.063 U	-
Toluene	ppb		NC		NC	1.2	4.7	0.56	1.1	1.1	1.2	-	-	0.51	0.48	0.53	-
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	-	-	0.050 U	0.050 U	0.050 U	-
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	-	-	0.048 U	0.048 U	0.048 U	-
Trichloroethene	ppb	2		20		0.41	8.1[a]	0.036 U	0.036 U	0.036 U	0.036 U	-	-	0.036 U	0.036 U	0.038 J	-
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.21	0.34	0.23	0.21	0.20	0.25	-	-	0.23	0.22	0.31	-
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.061 J	0.080 J	0.067 J	0.062 J	0.064 J	0.061 J	-	-	0.061 J	0.071 J	0.062 J	-
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	-	-	0.035 U	0.035 U	0.035 U	-
Vinyl chloride	ppb	2		20		0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	-	-	0.071 U	0.071 U	0.071 U	-
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	-	-
Gases																	
Methane	%	0.05		0.05		-	0.21 U[ab]	-	-	-	-	-	-	-	0.19 U[ab]	0.19 U[ab]	-
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	0.0 / 0.0	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0.0 / 0.0	0 / 0	0.0 / 0.0	0.0 / 0.0	-	0.0 / 0.0	-	0	0.0	0 / 0	-	0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA 1st Fl.*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5054, Bldg 4, IA Basement*	*Parcel 5054, Bldg 5*	*Parcel 5054, Bldg 5*	*Parcel 5054, Bldg 5, IA*	*Parcel 5054, Bldg 5, IA*
Sample Location:				*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*
Owner / Tenant:				*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*	*Valley Asphalt*
Sample ID:				*IA-38443-031312-JC-166*	*IA-38443-080612-GL-050*	*IA-38443-091312-GL-023*	*IA-38443-031312-JC-167*	*IA-38443-031312-JC-167*	*IA-38443-080612-GL-049*	*IA-38443-091312-GL-024*	*OA-38443-031312-JC-170*	*OA-38443-080612-GL-053*	*IA-38443-031312-JC-171*	*IA-38443-080612-GL-054*
Sample Date:				*3/13/2012*	*8/6/2012*	*9/13/2012*	*3/12/2012*	*3/13/2012*	*8/6/2012*	*9/13/2012*	*3/13/2012*	*8/6/2012*	*3/13/2012*	*8/6/2012*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*											
Volatile Organic Compounds														
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	0.060 U	-	0.030 U	-	0.060 U	0.030 U	0.030 U	0.030 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.12 U	-	0.061 U	-	0.12 U	0.061 U	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.11 U	-	0.054 U	-	0.11 U	0.054 U	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	0.052 U	-	0.026 U	-	0.052 U	0.026 U	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.064 U	-	0.032 U	-	0.064 U	0.032 U	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 U	0.098 UJ	0.20 U	-	0.098 U	-	0.20 U	0.098 U	0.098 UJ	0.098 U	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	1.0	1.3	0.72	-	2.3	-	0.13 U	0.063 U	0.066 J	0.20	0.28
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.088 U	-	0.044 U	-	0.088 U	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.14 U	-	0.070 U	-	0.14 U	0.070 U	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	0.094 U	-	0.047 U	-	0.094 U	0.047 U	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.10 U	-	0.052 U	-	0.10 U	0.052 U	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.064 U	-	0.032 U	-	0.064 U	0.032 U	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.32	0.48	0.22 J	-	0.67	-	0.13 U	0.065 U	0.065 U	0.065 U	0.092 J
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.13 U	-	0.064 U	-	0.13 U	0.064 U	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.13 U	-	0.065 U	-	0.13 U	0.065 U	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.13 UJ	-	0.064 U	-	0.13 UJ	0.064 U	0.064 U	0.14 J	0.18 J
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	0.16 UJ	-	0.080 U	-	0.16 UJ	0.080 U	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.25 J	0.52	0.48 J	-	0.44 J	-	0.14 J	0.039 U	0.041 J	0.072 J	0.048 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	1.0	1.0	0.72 J	-	1.2	-	0.74 J	0.28 J	0.51 J	0.53 J	0.88 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.13 U	-	0.063 U	-	0.13 U	0.063 U	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	0.058 U	0.12 U	-	0.058 U	-	0.12 U	0.058 U	0.058 U	0.058 U	0.11 J
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.13 U	-	0.064 U	-	0.13 U	0.064 U	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.52	0.52	0.34 J	-	1.0	-	0.13 U	0.066 U	0.066 U	0.19 J	0.088 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.11 J	0.16 J	0.20 J	-	0.25 J	-	0.090 U	0.045 U	0.050 J	0.15 J	0.25 J
Acetaldehyde	ppb	11	NC	-	-	21 J*	-	-	-	37 J*	-	-	-	-
Acetone	ppb	NC	NC	22	25	20 J	-	49	-	31 J	1.9 J	4.6 J	8.3	9.2
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.096 U	-	0.048 U	-	0.096 U	0.048 U	0.048 U	0.048 U	0.048 U
Benzene	ppb	2	20	0.54	0.59	0.43	-	0.99	-	0.21 J	0.099 J	0.15 J	0.16 J	0.22
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.16 U	-	0.078 U	-	0.16 U	0.078 U	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.088 U	-	0.044 U	-	0.088 U	0.044 U	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.096 UJ	-	0.048 U	-	0.096 UJ	0.048 U	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.064 U	-	0.032 U	-	0.064 U	0.032 U	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	5.1	2.4	3.0	-	7.0	-	4.0	1.7	1.7	11	1.9
Carbon disulfide	ppb	NC	NC	0.063 J	0.049 J	0.062 U	-	0.081 J	-	0.062 U	0.031 U	0.031 U	0.031 U	0.052 J
Carbon tetrachloride	ppb	NC	NC	0.078 J	0.076 J	0.076 U	-	0.071 J	-	0.076 U	0.081 J	0.069 J	0.088 J	0.068 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.098 U	-	0.049 U	-	0.098 U	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	1.0	0.30	0.45	-	0.38	-	0.48	0.52	0.29	0.58	0.36
Chloroethane	ppb	NC	NC	0.035 U	0.039 J	0.070 U	-	0.052 J	-	0.070 U	0.035 U	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	0.038 U	0.076 U	-	0.038 U	-	0.076 U	0.038 U	0.038 U	0.046 J	0.038 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.77	0.65	0.67 J	-	0.84	-	0.65 J	0.56	0.70	0.62	0.61
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.060 U	0.12 U	-	0.060 U	-	0.12 U	0.060 U	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	0.15 U	-	0.074 U	-	0.15 U	0.074 U	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	0.37 J	0.69	0.70 J	-	0.86	-	0.42 J	0.040 U	0.091 J	0.040 U	0.20 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.057 U	0.11 U	-	0.057 U	-	0.11 U	0.057 U	0.057 U	0.057 U	2.0
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	0.084 U	-	0.042 U	-	0.084 U	0.042 U	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.40	0.49	0.55	-	0.40	-	0.55	0.49	0.45	0.48	0.49
Ethylbenzene	ppb	250	2500	1.6	2.0	1.2	-	3.3	-	0.14 U	0.068 U	0.068 U	28	19
Hexachlorobutadiene	ppb	NC	NC	0.078 U	0.078 UJ	0.16 U	-	0.078 U	-	0.16 U	0.078 U	0.078 UJ	0.078 U	0.078 UJ
Hexane	ppb	NC	NC	0.85	0.87	0.80 J	-	1.7	-	0.33 J	0.18 J	0.14 J	0.19 J	0.55
Isopropyl alcohol	ppb	NC	NC	4.6	4.6	4.5	-	6.8	-	5.0	0.25 J	0.45 J	6.0	1.7 J
Isopropyl benzene	ppb	NC	NC	0.11 J	0.12 J	0.12 U	-	0.21 J	-	0.12 U	0.060 U	0.060 U	0.084 J	0.29 J
m&p-Xylenes	ppb	200	2000	5.2	6.3	4.1	-	11	-	0.24 U	0.14 J	0.18 J	69	76
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	0.16 U	-	0.079 U	-	0.16 U	0.079 U	0.079 U	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	0.34 U	-	0.17 U	-	0.34 U	0.17 U	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	1.5	0.64	0.74 J	-	4.0	-	1.5	0.19 J	0.25 J	0.24 J	1.7
Naphthalene	ppb	2.9	NC	0.27 J	0.12 J	0.18 U	-	0.27 J	-	0.18 U	0.090 U	0.090 UJ	0.090 U	0.090 UJ
N-Butylbenzene	ppb	NC	NC	0.11 J	0.085 J	0.092 U	-	0.17 J	-	0.092 U	0.046 U	0.046 U	0.073 J	0.68
N-Decane	ppb	NC	NC	-	0.79 J	0.47 J	-	-	-	0.11 U	-	0.11 J	-	15
N-Dodecane	ppb	NC	NC	-	0.39 J	0.30 J	-	-	-	0.16 U	-	0.19 J	-	5.6
N-Heptane	ppb	NC	NC	1.7	2.6	2.5	-	4.1	-	0.12 J	0.073 J	0.085 J	0.30 J	0.13 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	0.60	0.42 J	-	-	-	0.086 U	-	0.069 J	-	34
N-Propylbenzene	ppb		NC		NC	0.24 J	0.29 J	0.20 J	-	0.56	-	0.11 U	0.056 U	0.056 U	0.056 U	0.095 J
N-Undecane	ppb		NC		NC	-	0.74 J	0.49 J	-	-	-	0.12 U	-	0.12 J	-	17
Octane	ppb		NC		NC	-	1.0	0.67 J	-	-	-	0.072 U	-	0.056 J	-	1.7
o-Xylene	ppb	200		2000		1.4	1.7	1.2	-	2.9	-	0.12 U	0.061 U	0.071 J	17	22
Pentane	ppb		NC		NC	-	1.0	1.1 J	-	-	-	1.2 J	-	0.34 J	-	0.47 J
Styrene	ppb		NC		NC	0.11 J	0.13 J	0.12 U	-	0.099 J	-	0.12 U	0.058 U	0.058 U	0.077 J	0.058 U
tert-Butyl alcohol	ppb		NC		NC	0.19 J	0.12 J	0.16 J	-	0.14 J	-	0.13 J	0.043 J	0.11 J	0.13 J	1.4 J
tert-Butylbenzene	ppb		NC		NC	0.11 J	0.066 U	0.13 U	-	0.066 U	-	0.13 U	0.066 U	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	25		250		0.61	0.070 J	0.080 U	-	0.069 J	-	0.080 U	0.040 U	0.040 U	0.040 U	0.040 U
Tetrahydrofuran	ppb		NC		NC	0.063 U	0.063 U	0.13 U	-	0.063 U	-	0.13 U	0.063 U	0.063 U	0.063 U	0.073 J
Toluene	ppb		NC		NC	5.4	6.4	4.2	-	12	-	0.42	0.22	0.48	0.43	15
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	0.050 U	0.10 U	-	0.050 U	-	0.10 U	0.050 U	0.050 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.048 U	0.096 U	-	0.048 U	-	0.096 U	0.048 U	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	2		20		0.036 U	0.065 J	0.093 J	-	0.036 U	-	0.072 U	0.036 U	0.036 U	0.051 J	0.11 J
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.25	0.24	0.36 J	-	0.21	-	0.40	0.24	0.25	0.44	0.49
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.059 J	0.073 J	0.074 J	-	0.060 J	-	0.063 J	0.076 J	0.068 J	0.075 J	0.068 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.035 U	0.070 U	-	0.035 U	-	0.070 U	0.035 U	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	2		20		0.071 U	0.071 U	0.14 U	-	0.071 U	-	0.14 U	0.071 U	0.071 U	0.071 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	-
Gases																
Methane	%	0.05		0.05		-	0.20 U[ab]	0.19 U[ab]	-	-	-	0.20 U[ab]	-	0.21 U[ab]	-	0.20 U[ab]
Field Parameter																
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0.0	0 / 0	-	0	0.0	0 / 0	-	-	0 / 0	0.0 / 0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5054, Bldg 6*	*Parcel 5054, Bldg 6*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg 7*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP*	*Parcel 5054, Bldg MP*	*Parcel 5171, Bldg 8*	*Parcel 5171, Bldg 8*
Sample Location:				*1901 Dryden Road*	*1901 Dryden Road*				*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1901 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*
Owner / Tenant:				*Valley Asphalt*	*Valley Asphalt*	*unknown*	*unknown*	*unknown*	*former Murphy's Plumbing*	*former Murphy's Plumbing*	*former Murphy's Plumbing*	*former Murphy's Plumbing*	*former Murphy's Plumbing*	*former Murphy's Plumbing*	*B&G Trucking*	*B&G Trucking*
Sample ID:				-	-	-	-	-	*CS-38443-011012-JC-051*	*OA-38443-011012-JC-053*	*CS-38443-011012-JC-052*	-	*CS-38443-080612-GL-057*	*OA-38443-080612-GL-058*	*OA-38443-031412-JC-182*	*OA-38443-080712-GL-059*
Sample Date:				*1/10/2012*	*4/4/2012*	*1/10/2012*	*4/4/2012*	*8/2/2012*	*1/10/2012*	*1/10/2012*	*1/10/2012*	*4/4/2012*	*8/6/2012*	*8/6/2012*	*3/14/2012*	*8/7/2012*
											Duplicate					
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)*	*ODH Indoor Air Action Levels (Non-residential)*													
		a	*b*													
Volatile Organic Compounds																
1,1,1-Trichloroethane	ppb	NC	NC	-	-	-	-	-	R	R	0.035 U	-	0.030 U	0.030 U	0.030 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	-	-	-	-	-	R	R	0.040 U	-	0.061 U	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	-	-	-	-	-	R	R	0.019 U	-	0.054 U	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	160	-	-	-	-	-	R	R	0.035 U	-	0.026 U	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	-	-	-	-	-	R	R	0.030 U	-	0.032 U	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.050 U	-	0.098 UJ	0.098 UJ	0.098 U	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.052 U	-	0.063 U	0.073 J	0.15 J	0.60
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	-	-	-	-	-	R	R	0.018 U	-	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.048 U	-	0.070 U	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	-	-	-	-	-	R	R	0.031 U	-	0.047 U	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	R	R	0.068 J	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	-	-	-	-	-	R	R	0.014 U	-	0.052 U	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	-	-	-	-	-	R	R	0.032 U	-	0.032 U	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.051 U	-	0.065 U	0.065 U	0.065 U	0.15 J
1,3-Butadiene	ppb	NC	NC	-	-	-	-	-	R	R	0.010 U	-	0.064 U	0.064 U	0.14 J	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.044 U	-	0.065 U	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.044 U	-	0.064 U	0.064 U	0.064 UJ	0.064 U
1,4-Dioxane	ppb	NC	NC	-	-	-	-	-	R	R	0.088 U	-	0.080 U	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	-	-	-	-	-	R	R	0.036 U	-	1.1	0.070 J	0.18 J	0.16 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	-	-	-	-	-	R	R	0.044 J	-	0.99 J	0.41 J	1.1	1.3
2-Chlorotoluene	ppb	NC	NC	-	-	-	-	-	R	R	0.047 U	-	0.063 U	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	-	-	-	-	-	R	R	0.039 U	-	0.058 U	0.058 U	0.058 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	-	-	-	-	-	R	R	0.047 U	-	0.064 U	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	-	-	-	-	-	R	R	0.046 U	-	0.066 U	0.066 U	0.066 U	0.18 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	-	-	-	-	-	R	R	0.026 U	-	0.10 J	0.045 U	0.045 U	18
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	-	-	-	-	-	R	R	1.1 J	-	9.5	3.5 J	7.3	55
Allyl chloride	ppb	NC	NC	-	-	-	-	-	R	R	0.019 U	-	0.048 U	0.048 U	0.048 U	0.048 U
Benzene	ppb	2	20	-	-	-	-	-	R	R	0.16 J	-	0.23	0.11 J	0.41	0.30
Benzyl chloride	ppb	NC	NC	-	-	-	-	-	R	R	0.046 UJ	-	0.078 U	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	-	-	-	-	-	R	R	0.028 U	-	0.044 U	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	-	-	-	-	-	R	R	0.019 U	-	0.048 U	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	-	-	-	-	-	R	R	0.012 U	-	0.032 U	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	-	-	-	-	-	R	R	1.4	-	0.39 J	0.35 J	5.4 J	1.3
Carbon disulfide	ppb	NC	NC	-	-	-	-	-	R	R	0.066 U	-	0.12 J	0.031 U	0.031 U	0.031 U
Carbon tetrachloride	ppb	NC	NC	-	-	-	-	-	R	R	0.068 J	-	0.086 J	0.060 J	0.092 J	0.073 J
Chlorobenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.020 U	-	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	-	-	-	-	-	R	R	0.034 U	-	0.31	0.25	0.74 J	0.43
Chloroethane	ppb	NC	NC	-	-	-	-	-	R	R	0.016 U	-	0.038 J	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	-	-	-	-	-	R	R	0.089 J	-	0.038 U	0.038 U	0.17 J	0.042 J
Chloromethane (Methyl chloride)	ppb	NC	NC	-	-	-	-	-	R	R	0.36 J	-	0.61	0.50	1.1	0.61
cis-1,2-Dichloroethene	ppb	37	370	-	-	-	-	-	R	R	0.068 J	-	0.060 U	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	-	-	-	-	-	R	R	0.016 U	-	0.074 U	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	-	-	-	-	-	R	R	0.039 U	-	0.50	0.092 J	0.040 U	0.29 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	-	-	-	-	-	R	R	0.048 U	-	0.057 U	0.057 U	0.057 U	0.057 U
Dibromochloromethane	ppb	NC	NC	-	-	-	-	-	R	R	0.021 U	-	0.042 U	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	-	-	-	-	-	R	R	0.48 J	-	0.49	0.46	0.60	0.47
Ethylbenzene	ppb	250	2500	-	-	-	-	-	R	R	0.052 J	-	0.12 J	0.068 U	0.16 J	1.9
Hexachlorobutadiene	ppb	NC	NC	-	-	-	-	-	R	R	0.065 U	-	0.078 UJ	0.078 UJ	0.078 U	0.078 UJ
Hexane	ppb	NC	NC	-	-	-	-	-	R	R	0.14 J	-	2.2	0.089 J	0.52	0.43 J
Isopropyl alcohol	ppb	NC	NC	-	-	-	-	-	R	R	0.037 U	-	0.49 J	0.35 J	2.1	1.3 J
Isopropyl benzene	ppb	NC	NC	-	-	-	-	-	R	R	0.031 U	-	0.060 U	0.060 U	0.060 U	0.060 U
m&p-Xylenes	ppb	200	2000	-	-	-	-	-	R	R	0.053 J	-	0.18 J	0.16 J	0.52	8.2
Methyl methacrylate	ppb	NC	NC	-	-	-	-	-	R	R	0.013 U	-	0.079 U	0.079 U	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	-	-	-	-	-	R	R	0.016 U	-	0.17 U	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	-	-	-	-	-	R	R	0.11 U	-	0.21 J	0.18 J	0.43 J	0.55
Naphthalene	ppb	2.9	NC	-	-	-	-	-	R	R	0.086 UJ	-	0.090 UJ	0.090 UJ	0.090 U	0.090 UJ
N-Butylbenzene	ppb	NC	NC	-	-	-	-	-	R	R	0.055 U	-	0.046 U	0.046 U	0.046 U	0.046 U
N-Decane	ppb	NC	NC	-	-	-	-	-	-	-	-	-	0.056 UJ	0.056 UJ	-	0.99 J
N-Dodecane	ppb	NC	NC	-	-	-	-	-	-	-	-	-	0.078 U	0.078 U	-	0.14 J
N-Heptane	ppb	NC	NC	-	-	-	-	-	R	R	0.076 J	-	5.0	0.047 U	0.46 J	0.25 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	-	-	-	-	-	-	-	0.043 U	0.043 U	-	0.65
N-Propylbenzene	ppb		NC		NC	-	-	-	-	-	R	R	0.050 U	-	0.056 U	0.056 U	0.056 U	0.10 J
N-Undecane	ppb		NC		NC	-	-	-	-	-	-	-	-	-	0.062 U	0.062 U	-	0.48 J
Octane	ppb		NC		NC	-	-	-	-	-	-	-	-	-	0.22 J	0.036 U	-	0.090 J
o-Xylene	ppb	200		2000		-	-	-	-	-	R	R	0.022 U	-	0.061 U	0.061 U	0.19 J	2.5
Pentane	ppb		NC		NC	-	-	-	-	-	-	-	-	-	0.31 J	0.32 J	-	1.1
Styrene	ppb		NC		NC	-	-	-	-	-	R	R	0.030 U	-	0.058 U	0.058 U	0.058 U	0.33
tert-Butyl alcohol	ppb		NC		NC	-	-	-	-	-	R	R	0.071 U	-	0.18 J	0.038 U	0.11 J	0.063 J
tert-Butylbenzene	ppb		NC		NC	-	-	-	-	-	R	R	0.047 U	-	0.066 U	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	25		250		-	-	-	-	-	R	R	0.036 J	-	38*	0.040 U	0.18 J	0.040 U
Tetrahydrofuran	ppb		NC		NC	-	-	-	-	-	R	R	0.018 U	-	0.063 U	0.063 U	0.063 U	0.063 U
Toluene	ppb		NC		NC	-	-	-	-	-	R	R	0.16 J	-	5.3	0.13 J	1.3	2.1
trans-1,2-Dichloroethene	ppb		NC		NC	-	-	-	-	-	R	R	0.032 U	-	0.050 U	0.050 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	-	-	-	-	-	R	R	0.020 U	-	0.048 U	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	2		20		-	-	-	-	-	R	R	0.10 J	-	0.091 J	0.036 U	0.052 J	0.072 J
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	-	-	-	-	-	R	R	0.23	-	0.26	0.22	0.33	0.29
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	-	-	-	-	-	R	R	0.071 J	-	0.079 J	0.069 J	0.082 J	0.077 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	-	-	-	-	-	R	R	0.019 U	-	0.035 U	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	2		20		-	-	-	-	-	R	R	0.029 U	-	0.071 U	0.071 U	0.071 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	R	R	0.053 J	-	-	-	-	-
Gases																	
Methane	%	0.05		0.05		-	-	-	-	-	0.061 U[ab]	R	-	-	0.22 U[ab]	0.21 U[ab]	-	0.22 U[ab]
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		0.0 / 0.0	-	0.0 / 0.0	-	-	0.0	0.0 / 0.0	0.0	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		-	0.0	-	0.0	0 / 0	-	-	-	0.0	0 / 0	0 / 0	0.0 / 0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5171, Bldg 8, IA_C*	*Parcel 5171, Bldg 8, IA_C*	*Parcel 5171, Bldg 8, IA_F*	*Parcel 5171, Bldg 8, IA_F*	*Parcel 5171, Bldg 8, IA_F*	*Parcel 5171, Bldg 8, IA_Office*	*Parcel 5171, Bldg 8, IA_Office*	*Parcel 5171, Bldg 9*	*Parcel 5171, Bldg 9, 40 SW Corner Tree*	*Parcel 5171, Bldg 9, IA_A*	*Parcel 5171, Bldg 9, IA_B*
Sample Location:				*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*	*1951 Dryden Road*
Owner / Tenant:				*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*
Sample ID:				*IA-38443-031412-JC-186*	*IA-38443-080712-GL-064*	*IA-38443-031412-JC-190*	*IA-38443-080712-GL-067*	*IA-38443-080712-GL-068*	*IA-38443-031412-JC-183*	*IA-38443-080712-GL-061*	*OA-38443-031412-JC-192*	*OA-38443-032712-JC-222*	*IA-38443-032712-JC-193*	*IA-38443-031412-JC-195*
Sample Date:				*3/14/2012*	*8/7/2012*	*3/14/2012*	*8/7/2012*	*8/7/2012*	*3/14/2012*	*8/7/2012*	*3/14/2012*	*3/27/2012*	*3/27/2012*	*3/14/2012*
								Duplicate						
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*											
Volatile Organic Compounds														
1,1,1-Trichloroethane	ppb	NC	NC	1.1 U	0.030 U	1.1 U	0.030 U	0.030 U	7.1 U	0.030 U	0.030 U	0.030 U	9.1 U	26 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	2.2 U	0.061 U	2.3 U	0.061 U	0.061 U	14 U	0.061 U	0.061 U	0.061 U	18 U	52 U
1,1,2-Trichloroethane	ppb	NC	NC	2.0 U	0.054 U	2.0 U	0.054 U	0.054 U	13 U	0.054 U	0.054 U	0.054 U	16 U	46 U
1,1-Dichloroethane	ppb	16	160	0.95 U	0.026 U	0.99 U	0.026 U	0.026 U	6.1 U	0.026 U	0.026 U	0.026 U	7.9 U	22 U*
1,1-Dichloroethene	ppb	NC	NC	1.2 U	0.032 U	1.2 U	0.032 U	0.032 U	7.6 U	0.032 U	0.032 U	0.032 U	9.7 U	27 U
1,2,4-Trichlorobenzene	ppb	NC	NC	3.6 U	0.098 U	3.7 U	0.098 UJ	0.098 UJ	23 U	0.098 U	0.098 U	0.098 U	30 U	83 U
1,2,4-Trimethylbenzene	ppb	NC	NC	43	0.33	27	0.71 J	1.5 J	34 J	0.81	0.10 J	0.063 U	21 J	280
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	1.6 U	0.044 U	1.7 U	0.044 U	0.044 U	10 U	0.044 U	0.044 U	0.044 U	13 U	37 U
1,2-Dichlorobenzene	ppb	NC	NC	2.6 U	0.092 J	2.7 U	0.070 U	0.12 J	17 U	0.070 U	0.11 J	0.070 U	21 U	60 U
1,2-Dichloroethane	ppb	NC	NC	1.7 U	0.047 U	1.8 U	0.047 U	0.047 U	11 U	0.047 U	0.047 U	0.047 U	14 U	40 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	1.9 U	0.052 U	2.0 U	0.052 U	0.052 U	12 U	0.052 U	0.052 U	0.052 U	16 U	44 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	1.2 U	0.032 U	1.2 U	0.032 U	0.032 U	7.6 U	0.12 J	0.032 U	0.032 U	9.7 U	27 U
1,3,5-Trimethylbenzene	ppb	NC	NC	6.9 J	0.16 J	4.3 J	0.23	0.36	15 UJ	0.22	0.065 U	0.065 UJ	20 UJ	55 UJ
1,3-Butadiene	ppb	NC	NC	2.3 U	0.064 U	2.4 U	0.064 U	0.064 U	15 U	0.064 U	0.064 U	0.064 U	19 U	54 U
1,3-Dichlorobenzene	ppb	NC	NC	2.4 U	0.065 U	2.5 U	0.065 U	0.065 U	15 U	0.065 U	0.065 U	0.065 U	20 U	55 U
1,4-Dichlorobenzene	ppb	NC	NC	2.3 U	0.064 U	2.4 U	0.064 U	0.10 J	15 U	0.064 U	0.16 J	0.064 U	19 U	54 U
1,4-Dioxane	ppb	NC	NC	2.9 U	0.080 U	3.0 U	0.080 U	0.080 U	19 U	0.080 U	0.080 U	0.080 U	24 U	68 U
2,2,4-Trimethylpentane	ppb	NC	NC	8.2 J	0.51	6.7 J	0.76	0.62	13 J	0.28 J	0.12 J	0.039 U	12 U	33 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	19 J	1.8	20 J	15	10	47 U	4.8	0.54 J	0.23 J	1200	460 J
2-Chlorotoluene	ppb	NC	NC	2.3 U	0.063 U	2.4 U	0.063 U	0.063 U	15 U	0.063 U	0.063 U	0.063 U	19 U	54 U
2-Hexanone	ppb	NC	NC	2.1 U	0.058 U	2.2 U	0.084 J	0.11 J	14 U	0.058 U	0.058 U	0.058 U	18 U	49 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	2.3 U	0.064 U	2.4 U	0.064 U	0.064 U	15 U	0.064 U	0.064 U	0.064 U	19 U	54 U
4-Ethyl toluene	ppb	NC	NC	8.9 J	0.15 J	5.6 J	0.44	0.52	16 U	0.32 J	0.066 U	0.066 U	20 U	56 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	6.9 J	0.36 J	5.5 J	1.7	1.5	11 U	0.80	0.045 U	0.045 U	290	170 J
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	2700	12 J	2500	25	32	3500	15 J	3.7 J	1.4 U	2200	5600
Allyl chloride	ppb	NC	NC	1.8 U	0.048 U	1.8 U	0.048 U	0.048 U	11 U	0.048 U	0.048 U	0.048 U	15 U	41 U
Benzene	ppb	2	20	20[a]	0.44	13[a]	0.99	0.79	26 J[ab]	0.41	0.32	0.15 J	17 U[a]	48 U[ab]
Benzyl chloride	ppb	NC	NC	2.9 U	0.078 U	3.0 U	0.078 U	0.078 U	18 U	0.078 U	0.078 U	0.078 U	24 U	66 U
Bromodichloromethane	ppb	NC	NC	1.6 U	0.044 U	1.7 U	0.044 U	0.044 U	10 U	0.044 U	0.044 U	0.044 U	13 U	37 U
Bromoform	ppb	NC	NC	1.8 U	0.048 U	1.8 U	0.048 U	0.048 U	11 U	0.048 U	0.048 U	0.048 U	15 U	41 U
Bromomethane (Methyl bromide)	ppb	NC	NC	1.2 U	0.032 U	1.2 U	0.032 U	0.032 U	7.6 U	0.032 U	0.032 U	0.032 U	9.7 U	27 U
Butane	ppb	NC	NC	190	3.4	120	12	9.5	190	3.8	4.8 J	0.73	190	63 J
Carbon disulfide	ppb	NC	NC	1.1 U	0.031 U	1.2 U	0.16 J	0.046 J	7.3 U	0.031 U	0.031 U	0.031 U	9.4 U	26 U
Carbon tetrachloride	ppb	NC	NC	1.4 UJ	0.065 J	1.4 UJ	0.10 J	0.085 J	9.0 UJ	0.064 J	0.073 J	0.085 J	12 UJ	32 UJ
Chlorobenzene	ppb	NC	NC	1.8 U	0.049 U	1.9 U	0.049 U	0.049 U	12 U	0.049 U	0.54	0.049 U	15 U	42 U
Chlorodifluoromethane	ppb	NC	NC	3.5 J	0.42	3.3 J	0.037 U	0.60	14 J	0.41	0.83 J	0.24	24 J	31 U
Chloroethane	ppb	NC	NC	1.3 U	0.035 U	1.3 U	0.035 U	0.035 U	8.3 U	0.035 U	0.035 U	0.035 U	11 U	30 U
Chloroform (Trichloromethane)	ppb	80	800	1.4 U	0.038 U	1.4 U	0.091 J	0.067 J	9.0 U	0.043 J	0.17 J	0.038 U	12 U	32 U
Chloromethane (Methyl chloride)	ppb	NC	NC	5.9 U	0.58	6.1 U	0.75	0.85	38 U	0.52	0.71	0.57	49 U	140 U
cis-1,2-Dichloroethene	ppb	37	370	2.2 U	0.060 U	2.3 U	0.060 U	0.25	14 U	0.060 U	0.060 U	0.060 U	18 U	51 U*
cis-1,3-Dichloropropene	ppb	NC	NC	2.7 U	0.074 U	2.8 U	0.074 U	0.074 U	17 U	0.074 U	0.074 U	0.074 U	22 U	63 U
Cyclohexane	ppb	NC	NC	26	0.62	22	0.91	0.68	57 J	0.37 J	0.040 U	0.040 U	14 J	34 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	2.1 U	0.057 U	2.2 U	0.057 U	0.058 J	13 U	0.057 U	0.057 U	0.057 U	17 U	48 U
Dibromochloromethane	ppb	NC	NC	1.5 U	0.042 U	1.6 U	0.042 U	0.042 U	9.9 U	0.042 U	0.042 U	0.042 U	13 U	36 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	2.5 U	0.43	2.6 U	0.73	0.60	16 U	0.80	0.50	0.43	21 U	71 J
Ethylbenzene	ppb	250	2500	34	1.1	27	9.5	7.6	22 J	3.8	0.14 J	0.068 U	270*	94 J
Hexachlorobutadiene	ppb	NC	NC	2.9 U	0.078 U	3.0 U	0.078 UJ	0.078 UJ	18 U	0.078 U	0.078 U	0.078 U	24 U	66 U
Hexane	ppb	NC	NC	46	1.1	32	2.8	2.8	69 J	0.98	0.32 J	0.16 J	20 J	27 U
Isopropyl alcohol	ppb	NC	NC	270	1.4 J	230	4.9	2.7	370 J	2.1	1.2 J	0.17 J	32 J	63 J
Isopropyl benzene	ppb	NC	NC	2.6 J	0.075 J	2.3 U	0.17 J	0.14 J	14 U	0.087 J	0.060 U	0.060 U	18 U	51 U
m&p-Xylenes	ppb	200	2000	140	3.7	110	36	32	89	15	0.48	0.12 U	1200*	420*
Methyl methacrylate	ppb	NC	NC	2.9 U	0.079 U	3.0 U	0.14 J	0.11 J	19 U	0.083 J	0.079 U	0.079 U	24 U	67 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	6.2 U	0.17 U	6.4 U	0.17 U	0.17 U	40 U	0.17 U	0.17 U	0.17 U	52 U	140 U
Methylene chloride	ppb	NC	NC	1.6 U	0.82	1.7 U	0.75 J	2.7 J	11 U	0.91	0.38 J	0.045 U	260	38 U
Naphthalene	ppb	2.9	NC	3.3 U[a]	0.090 U	3.4 U[a]	0.090 UJ	0.096 J	21 U[a]	0.090 U	0.090 U	0.090 U	27 U[a]	76 U[a]
N-Butylbenzene	ppb	NC	NC	2.3 J	0.046 U	1.7 U	0.046 U	0.10 J	11 U	0.070 J	0.046 U	0.046 UJ	14 UJ	39 U
N-Decane	ppb	NC	NC	-	16	-	6.9 J	14 J	-	9.8	-	-	-	-
N-Dodecane	ppb	NC	NC	-	0.088 J	-	0.078 U	0.46 J	-	0.72 J	-	-	-	-
N-Heptane	ppb	NC	NC	260	0.90	240	1.2	0.94	570	0.45 J	0.25 J	0.059 J	180	310 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	24	-	11	11	-	7.3	-	-	-	-
N-Propylbenzene	ppb		NC		NC	5.1 J	0.11 J	3.1 J	0.28 J	0.29 J	13 U	0.17 J	0.056 U	0.056 U	17 U	48 U
N-Undecane	ppb		NC		NC	-	2.3	-	1.0 J	4.2 J	-	3.8	-	-	-	-
Octane	ppb		NC		NC	-	1.5	-	1.7	1.4	-	0.74	-	-	-	-
o-Xylene	ppb	200		2000		44	1.1	33	8.5	8.4	30 J	4.3	0.16 J	0.061 U	390[a]	150 J
Pentane	ppb		NC		NC	-	3.5	-	11	9.3	-	3.6	-	-	-	-
Styrene	ppb		NC		NC	2.1 U	0.058 U	2.2 U	0.61	0.83	14 U	0.55	0.058 U	0.058 U	57 J	160 J
tert-Butyl alcohol	ppb		NC		NC	1.4 U	0.045 J	1.4 U	0.24 J	0.53 J	9.0 U	0.15 J	0.10 J	0.038 U	12 U	32 U
tert-Butylbenzene	ppb		NC		NC	2.4 U	0.066 U	2.5 U	0.066 U	0.066 U	16 U	0.091 J	0.066 U	0.066 U	20 U	56 U
Tetrachloroethene	ppb	25		250		1.5 U	0.062 J	1.5 U	0.13 J	0.076 J	9.5 U	0.040 U	0.23	0.040 U	12 U	34 U[a]
Tetrahydrofuran	ppb		NC		NC	2.3 U	0.38 J	2.4 U	0.11 J	0.093 J	15 U	0.29 J	0.063 U	0.063 U	19 U	54 U
Toluene	ppb		NC		NC	130	2.7	91	10	8.7	110	4.1	1.7	0.32	5800	7900
trans-1,2-Dichloroethene	ppb		NC		NC	1.8 U	0.050 U	1.9 U	0.12 J	0.089 J	12 U	0.050 U	0.050 U	0.050 U	15 U	42 U
trans-1,3-Dichloropropene	ppb		NC		NC	1.8 U	0.048 U	1.8 U	0.048 U	0.048 U	11 U	0.048 U	0.048 U	0.048 U	15 U	41 U
Trichloroethene	ppb	2		20		1.5 J	0.12 J	1.4 U	0.96	0.89	8.5 U[ab]	0.29	0.50	0.042 J	13 J[a]	31 U[ab]
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.88 U	0.23	0.91 U	0.37	0.56	5.7 U	0.35	0.28	0.18 J	7.3 U	20 U
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	1.1 U	0.069 J	1.2 U	0.093 J	0.078 J	7.3 U	0.066 J	0.066 J	0.071 J	9.4 U	26 U
Vinyl bromide (Bromoethene)	ppb		NC		NC	1.3 U	0.035 U	1.3 U	0.035 U	0.035 U	8.3 U	0.035 U	0.035 U	0.035 U	11 U	30 U
Vinyl chloride	ppb	2		20		2.6 U[a]	0.071 U	2.7 U[a]	0.071 U	0.071 U	17 U[a]	0.071 U	0.071 U	0.071 U	22 U[ab]	60 U[ab]
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	-
Gases																
Methane	%	0.05		0.05		-	0.19 U[ab]	-	0.21 U[ab]	0.19 U[ab]	-	0.22 U[ab]	-	-	-	-
Field Parameter																
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0.0 / 0.0	0 / 0	0.0 / 0	0 / 0	0 / 0	0.0 / 0	0 / 0	0.0 / 0	0.0 / 0	0.0 / 0	0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5171, Bldg 11*	*Parcel 5172 / 12 Overstreet*	*Parcel 5172 / 12 / IA_A Overstreet*
Sample Location:				*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*1915 Dryden Road*	*2019 Dryden Road*	*2019 Dryden Road*
Owner / Tenant:				*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*B&G Trucking*	*Overstreet Painting*	*Overstreet Painting*
Sample ID:				*CS-38443-011112-JC-060*	*OA-38443-011112-JC-058*	*OA-38443-011112-JC-059*	*CS-38443-011112-JC-060*	*OA-38443-011212-JC-070*	*-*	*CS-38443-080712-GL-069*	*OA-38443-080712-GL-070*	*OA-38443-080712-GL-071*	*OA-38443-080712-GL-071*	*OA-38443-031512-JC-214*	*IA-38443-031512-JC-215*
Sample Date:				*1/11/2012*	*1/11/2012*	*1/11/2012*	*1/12/2012*	*1/12/2012*	*4/4/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*8/7/2012*	*3/15/2012*	*3/15/2012*
						Duplicate							*Duplicate*		
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	-	0.035 U	0.035 U	0.035 U	0.035 U	-	0.030 U	0.030 U	0.030 U	-	0.030 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	-	0.040 U	0.040 U	0.040 U	0.040 U	-	0.061 U	0.061 U	0.061 U	-	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	-	0.019 U	0.019 U	0.019 U	0.019 U	-	0.054 U	0.054 U	0.054 U	-	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	160	-	0.035 U	0.035 U	0.035 U	0.035 U	-	0.026 U	0.026 U	0.026 U	-	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	-	0.030 U	0.030 U	0.030 U	0.030 U	-	0.032 U	0.032 U	0.032 U	-	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	-	0.050 U	0.050 U	0.050 U	0.050 U	-	0.098 U	0.098 U	0.098 UJ	-	0.098 U	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	-	0.058 J	0.052 U	0.052 U	0.052 U	-	0.063 U	0.78	0.076 J	-	0.063 U	2.6
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	-	0.018 U	0.018 U	0.018 U	0.018 U	-	0.044 U	0.044 U	0.044 U	-	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	-	0.048 U	0.048 U	0.048 U	0.048 U	-	0.070 U	0.070 U	0.070 U	-	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	-	0.031 U	0.031 U	0.031 U	0.031 U	-	0.047 U	0.047 U	0.047 U	-	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	0.014 U	0.014 U	0.27	0.014 U	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	-	0.014 U	0.014 U	0.014 U	0.014 U	-	0.052 U	0.052 U	0.052 U	-	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	-	0.032 U	0.032 U	0.032 U	0.032 U	-	0.032 U	0.032 U	0.032 U	-	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	-	0.051 U	0.051 U	0.051 U	0.051 U	-	0.065 U	0.12 J	0.065 U	-	0.065 UJ	2.8 J
1,3-Butadiene	ppb	NC	NC	-	0.010 U	0.010 U	0.010 U	0.010 U	-	0.064 U	0.064 U	0.064 U	-	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	-	0.044 U	0.044 U	0.044 U	0.044 U	-	0.065 U	0.065 U	0.065 U	-	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	-	0.044 U	0.044 U	0.044 U	0.044 U	-	0.064 U	0.064 U	0.064 U	-	0.064 U	0.064 U
1,4-Dioxane	ppb	NC	NC	-	0.088 U	0.088 U	0.088 U	0.088 U	-	0.080 U	0.080 U	0.080 U	-	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	-	0.051 J	0.036 U	0.036 U	0.036 U	-	0.056 J	0.087 J	0.095 J	-	0.064 J	21
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	-	7.2 J	0.48 J	0.33 J	0.28 J	-	0.37 J	0.65 J	0.72 J	-	0.35 J	2.5
2-Chlorotoluene	ppb	NC	NC	-	0.047 U	0.047 U	0.047 U	0.047 U	-	0.063 U	0.063 U	0.063 U	-	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	-	0.039 U	0.039 U	0.039 U	0.039 U	-	0.058 U	0.058 U	0.058 U	-	0.058 U	0.16 J
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	-	0.047 U	0.047 U	0.047 U	0.047 U	-	0.064 U	0.064 U	0.064 U	-	0.064 U	0.16 J
4-Ethyl toluene	ppb	NC	NC	-	0.046 U	0.046 U	0.046 U	0.046 U	-	0.066 U	0.14 J	0.066 U	-	0.066 U	3.3
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	-	0.026 U	0.026 U	0.026 U	0.026 U	-	0.045 U	0.10 J	0.086 J	-	0.045 U	1.2
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	-	4.1 J	1.5 J	4.1 J	2.0 J	-	3.0 J	5.8 J	6.5	-	2.5 J	16
Allyl chloride	ppb	NC	NC	-	0.019 U	0.019 U	0.019 U	0.019 U	-	0.048 U	0.048 U	0.048 U	-	0.048 U	0.048 U
Benzene	ppb	2	20	-	0.27	0.27	0.31	0.20	-	0.18 J	0.24	0.24	-	0.22	9.7*
Benzyl chloride	ppb	NC	NC	-	0.046 UJ	0.046 UJ	0.046 UJ	0.046 UJ	-	0.078 U	0.078 U	0.078 U	-	0.078 U	0.084 J
Bromodichloromethane	ppb	NC	NC	-	0.028 U	0.028 U	0.028 U	0.028 U	-	0.044 U	0.044 U	0.044 U	-	0.044 U	0.044 U
Bromoform	ppb	NC	NC	-	0.019 U	0.019 U	0.019 U	0.019 U	-	0.048 U	0.048 U	0.048 U	-	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	-	0.012 U	0.012 U	0.012 U	0.012 U	-	0.032 U	0.032 U	0.032 U	-	0.032 U	0.032 U
Butane	ppb	NC	NC	-	2.2	2.5	2.0	1.1	-	1.0	1.0	0.91	-	1.1	110
Carbon disulfide	ppb	NC	NC	-	0.36 J	0.066 U	0.23 J	0.11 J	-	0.050 J	0.056 J	0.52	-	0.031 U	0.092 J
Carbon tetrachloride	ppb	NC	NC	-	0.069 J	0.070 J	0.076 J	0.068 J	-	0.087 J	0.068 J	0.073 J	-	0.10 J	0.084 J
Chlorobenzene	ppb	NC	NC	-	0.020 U	0.020 U	0.032 J	0.020 U	-	0.049 U	0.049 U	0.049 U	-	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	-	0.34 J	0.39 J	0.034 U	0.25 J	-	0.46	0.47	0.36	-	0.40	0.56
Chloroethane	ppb	NC	NC	-	0.016 U	0.016 U	0.016 U	0.016 U	-	0.036 J	0.040 J	0.035 U	-	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	-	0.031 U	0.031 U	0.031 U	0.031 U	-	0.063 J	0.038 U	0.038 U	-	0.074 J	0.23
Chloromethane (Methyl chloride)	ppb	NC	NC	-	0.74	0.71	0.18 J	0.48 J	-	0.26 J	0.65	0.69	-	0.71	0.84
cis-1,2-Dichloroethene	ppb	37	370	-	0.014 U	0.014 U	0.27	0.014 U	-	0.060 U	0.060 U	0.060 U	-	0.060 U	0.35
cis-1,3-Dichloropropene	ppb	NC	NC	-	0.016 U	0.016 U	0.016 U	0.016 U	-	0.074 U	0.074 U	0.074 U	-	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	-	0.039 U	0.041 J	0.093 J	0.040 J	-	0.18 J	0.27 J	0.24 J	-	0.064 J	3.4
Cymene (p-Isopropyltoluene)	ppb	NC	NC	-	0.048 U	0.048 U	0.048 U	0.048 U	-	0.057 U	0.057 U	0.079 J	-	0.057 U	0.27
Dibromochloromethane	ppb	NC	NC	-	0.021 U	0.021 U	0.021 U	0.021 U	-	0.042 U	0.042 U	0.042 U	-	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	-	0.61	0.65	0.50	0.47 J	-	0.51	0.43	0.46	-	0.47	0.42
Ethylbenzene	ppb	250	2500	-	0.061 J	0.062 J	0.26	0.036 J	-	0.077 J	0.78	0.12 J	-	0.068 U	8.4
Hexachlorobutadiene	ppb	NC	NC	-	0.065 U	0.065 U	0.065 U	0.065 U	-	0.078 U	0.078 U	0.078 UJ	-	0.078 U	0.078 U
Hexane	ppb	NC	NC	-	0.18 J	0.21	0.19 J	0.14 J	-	0.19 J	0.52	0.34 J	-	0.27 J	17
Isopropyl alcohol	ppb	NC	NC	-	0.037 U	0.037 U	0.71 J	0.85 J	-	0.22 J	2.3	1.1 J	-	0.76 J	6.2
Isopropyl benzene	ppb	NC	NC	-	0.031 U	0.031 U	0.066 J	0.031 U	-	0.060 U	0.12 J	0.060 U	-	0.060 U	1.2
m&p-Xylenes	ppb	200	2000	-	0.17 J	0.18 J	0.22 J	0.10 J	-	0.29	1.1	0.37	-	0.12 U	34
Methyl methacrylate	ppb	NC	NC	-	0.013 U	0.013 U	0.013 U	0.013 U	-	0.079 U	0.079 U	0.079 U	-	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	-	0.016 U	0.016 U	0.016 U	0.016 U	-	0.17 U	0.17 U	0.17 U	-	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	-	0.13 J	0.13 J	0.16 J	0.12 J	-	0.26 J	2.4	0.30 J	-	0.045 U	2.3
Naphthalene	ppb	2.9	NC	-	0.086 UJ	0.086 UJ	0.086 U	0.086 U	-	0.090 U	0.20 J	0.090 UJ	-	0.090 U	0.37 J
N-Butylbenzene	ppb	NC	NC	-	0.055 U	0.055 U	0.055 U	0.055 U	-	0.046 U	0.17 J	0.046 U	-	0.046 U	1.1
N-Decane	ppb	NC	NC	-	-	-	-	-	-	0.056 U	0.097 J	0.31 J	-	-	-
N-Dodecane	ppb	NC	NC	-	-	-	-	-	-	0.18 J	0.078 U	0.078 U	-	-	-
N-Heptane	ppb	NC	NC	-	0.099 J	0.11 J	0.13 J	0.057 J	-	0.058 J	0.18 J	0.20 J	-	0.092 J	5.7

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	-	-	-	-	-	0.043 U	0.084 J	0.17 J	-	-	-
N-Propylbenzene	ppb		NC		NC	-	0.050 U	0.050 U	0.050 U	0.050 U	-	0.056 U	0.37 J	0.056 U	-	0.056 U	1.9
N-Undecane	ppb		NC		NC	-	-	-	-	-	-	0.13 J	0.062 U	0.12 J	-	-	-
Octane	ppb		NC		NC	-	-	-	-	-	-	0.036 U	0.091 J	0.085 J	-	-	-
o-Xylene	ppb	200		2000		-	0.067 J	0.060 J	0.11 J	0.038 J	-	0.11 J	0.15 J	0.15 J	-	0.061 U	12
Pentane	ppb		NC		NC	-	-	-	-	-	-	0.90 J	0.79 J	0.76 J	-	-	-
Styrene	ppb		NC		NC	-	0.030 U	0.030 U	0.030 U	0.030 U	-	0.058 U	0.15 J	0.092 J	-	0.058 U	0.55
tert-Butyl alcohol	ppb		NC		NC	-	0.071 U	0.071 U	0.071 U	0.071 U	-	0.038 U	0.085 J	0.038 U	-	0.038 U	0.27 J
tert-Butylbenzene	ppb		NC		NC	-	0.047 U	0.047 U	0.047 U	0.047 U	-	0.066 U	0.066 U	0.066 U	-	0.066 U	0.066 U
Tetrachloroethene	ppb	25		250		-	0.011 U	0.011 U	0.011 U	0.011 U	-	0.19 J	0.041 J	0.048 J	-	0.057 J	0.24
Tetrahydrofuran	ppb		NC		NC	-	6.3 J	0.72 J	0.018 U	0.018 U	-	0.077 J	0.098 J	0.078 J	-	0.063 U	0.22 J
Toluene	ppb		NC		NC	-	0.35	0.36	0.84	0.32	-	0.68	1.1	0.86	-	0.48	38
trans-1,2-Dichloroethene	ppb		NC		NC	-	0.032 U	0.032 U	0.032 U	0.032 U	-	0.050 U	0.050 U	0.050 U	-	0.050 U	0.066 J
trans-1,3-Dichloropropene	ppb		NC		NC	-	0.020 U	0.020 U	0.020 U	0.020 U	-	0.048 U	0.048 U	0.048 U	-	0.048 U	0.048 U
Trichloroethene	ppb	2		20		-	0.030 U	0.030 U	0.29	0.030 U	-	0.94	0.036 U	0.051 J	-	0.10 J	5.0[a]
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	-	0.22	0.24	0.22	0.21	-	0.26	0.37	0.26	-	0.24	0.87
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	-	0.072 J	0.071 J	0.078 J	0.070 J	-	0.081 J	0.070 J	0.072 J	-	0.081 J	0.072 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	-	0.019 U	0.019 U	0.019 U	0.019 U	-	0.035 U	0.035 U	0.035 U	-	0.035 U	0.035 U
Vinyl chloride	ppb	2		20		-	0.029 U	0.029 U	0.029 U	0.029 U	-	0.071 U	0.071 U	0.071 U	-	0.071 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	0.24	0.24	0.33	0.14 J	-	-	-	-	-	-	-
Gases																	
Methane	%	0.05		0.05		-	-	-	0.10 U[ab]	0.065 U[ab]	-	0.20 U[ab]	0.19 U[ab]	0.19 U[ab]	-	-	-
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		-	-	-	-	-	0.0	0 / 0	0	-	0	0 / 0.0	0 / 0.0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5172 / 12 / IA_B Overstreet*	*Parcel 5172 / 12 / S&J*	*Parcel 5172 / 12 / IA_A S&J*	*Parcel 5172 / 12 / IA_C S&J*	*Parcel 5172 / 12 / IA_D S&J*	*Parcel 5172, Bldg 14*	*Parcel 5172, Bldg 14*	*Parcel 5172, Bldg 14, IA_A*	*Parcel 5172, Bldg 14, IA_A*	*Parcel 5172, Bldg 14, IA_B*	*Parcel 5172, Bldg 14, IA_B*	*Parcel 5172, Bldg 14, IA_C*
Sample Location:				*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2015 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*
Owner / Tenant:				*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*S&J Precision*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*
Sample ID:				*IA-38443-031512-JC-217*	*OA-38443-030712-JC-110*	*IA-38443-030712-JC-111*	*IA-38443-030712-JC-114*	*IA-38443-030712-JC-116*	*OA-38443-010612-JC-016*	*OA-38443-080212-GL-037*	*IA-38443-032712-JC-224*	*IA-38443-080212-GL-032*	*IA-38443-032712-JC-226*	*IA-38443-080212-GL-034*	*IA-38443-032712-JC-228*
Sample Date:				*3/15/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*3/7/2012*	*1/6/2012*	*8/2/2012*	*3/27/2012*	*8/2/2012*	*3/27/2012*	*8/2/2012*	*3/26/2012*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.12 U	0.030 U	0.030 U	0.030 U	0.030 U	0.035 U	0.030 U	0.082 J	0.57	0.14 J	0.57	-
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.24 U	0.061 U	0.061 U	0.061 U	0.061 U	0.040 U	0.061 U	0.061 U	0.061 U	0.061 U	0.12 U	-
1,1,2-Trichloroethane	ppb	NC	NC	0.22 U	0.054 U	0.054 U	0.054 U	0.054 U	0.019 U	0.054 U	0.054 U	0.054 U	0.054 U	0.11 U	-
1,1-Dichloroethane	ppb	16	160	0.10 U	0.026 U	0.026 U	0.026 U	0.026 U	0.035 U	0.026 U	0.026 U	0.046 J	0.035 J	0.055 J	-
1,1-Dichloroethene	ppb	NC	NC	0.13 U	0.032 U	0.032 U	0.032 U	0.032 U	0.030 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	-
1,2,4-Trichlorobenzene	ppb	NC	NC	0.39 U	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ	0.050 U	0.098 UJ	0.098 U	0.098 U	0.098 U	0.20 U	-
1,2,4-Trimethylbenzene	ppb	NC	NC	9.6	0.063 U	0.39	0.18 J	0.34	0.052 U	0.063 U	0.11 J	2.1	0.64	1.6	-
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.18 U	0.044 U	0.044 U	0.044 U	0.044 U	0.018 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	-
1,2-Dichlorobenzene	ppb	NC	NC	0.28 U	0.070 U	0.070 U	0.070 U	0.070 U	0.048 U	0.070 U	0.070 U	0.070 U	0.070 U	0.14 U	-
1,2-Dichloroethane	ppb	NC	NC	0.19 U	0.047 U	0.047 U	0.047 U	0.047 U	0.031 U	0.047 U	0.047 U	0.047 U	0.047 U	0.094 U	-
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	0.014 U	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.21 U	0.052 U	0.052 U	0.052 U	0.052 U	0.014 U	0.052 U	0.052 U	0.052 U	0.052 U	0.10 U	-
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.13 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	-
1,3,5-Trimethylbenzene	ppb	NC	NC	2.2 J	0.065 U	0.10 J	0.065 U	0.095 J	0.051 U	0.065 U	0.065 UJ	0.58	0.13 J	0.49	-
1,3-Butadiene	ppb	NC	NC	0.26 U	0.064 U	0.064 U	0.064 U	0.064 U	0.010 U	0.064 U	0.55	1.4	0.72	1.7	-
1,3-Dichlorobenzene	ppb	NC	NC	0.26 U	0.065 U	0.065 U	0.065 U	0.065 U	0.044 U	0.065 U	0.065 U	0.065 U	0.065 U	0.13 U	-
1,4-Dichlorobenzene	ppb	NC	NC	0.26 U	0.064 U	0.28	0.25	0.25	0.044 U	0.064 U	0.064 U	0.083 J	0.064 U	0.13 U	-
1,4-Dioxane	ppb	NC	NC	0.32 U	0.080 UJ	0.080 UJ	0.080 UJ	0.080 UJ	0.088 U	0.080 U	0.080 U	0.080 U	0.080 U	0.16 U	-
2,2,4-Trimethylpentane	ppb	NC	NC	12	0.039 U	0.089 J	0.061 J	0.095 J	0.052 J	0.084 J	0.55	0.32 J	0.12 J	0.30 J	-
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	2.0 J	0.20 UJ	0.56 J	0.38 J	0.65 J	0.29 J	0.56 J	1.7	8.1	3.4	12	-
2-Chlorotoluene	ppb	NC	NC	0.25 U	0.063 U	0.063 U	0.063 U	0.063 U	0.047 U	0.063 U	0.063 U	0.063 U	0.063 U	0.13 U	-
2-Hexanone	ppb	NC	NC	0.23 U	0.058 UJ	0.058 UJ	0.058 UJ	0.058 UJ	0.039 U	0.058 U	0.058 U	0.10 J	0.058 U	0.12 U	-
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.26 U	0.064 U	0.064 U	0.064 U	0.064 U	0.047 U	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	-
4-Ethyl toluene	ppb	NC	NC	3.1	0.066 U	0.12 J	0.077 J	0.15 J	0.046 U	0.066 U	0.066 U	0.56	0.088 J	0.49 J	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	1.9 J	0.045 UJ	6.1 J	1.9 J	3.2 J	0.026 U	0.056 J	0.13 J	2.0	0.21 J	1.6	-
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	23	1.4 U	5.5	3.3 J	5.2	1.2 J	5.3	7.7	35 J	12	32 J	-
Allyl chloride	ppb	NC	NC	0.19 U	0.048 U	0.048 U	0.048 U	0.048 U	0.019 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	-
Benzene	ppb	2	20	14ª	0.056 U	0.22	0.18 J	0.21	0.24	0.22	0.58	2.4ª	0.67	2.1ª	-
Benzyl chloride	ppb	NC	NC	0.31 U	0.078 U	0.078 U	0.078 U	0.078 U	0.046 U	0.078 U	0.078 U	0.078 U	0.078 U	0.16 U	-
Bromodichloromethane	ppb	NC	NC	0.18 U	0.044 U	0.044 U	0.044 U	0.044 U	0.028 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	-
Bromoform	ppb	NC	NC	0.19 U	0.048 U	0.048 U	0.048 U	0.048 U	0.019 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	-
Bromomethane (Methyl bromide)	ppb	NC	NC	0.13 U	0.032 U	0.032 U	0.032 U	0.032 U	0.012 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	-
Butane	ppb	NC	NC	130	0.78	2.5	1.9	2.8	1.4	1.0	3.1	7.0	4.2	7.7	-
Carbon disulfide	ppb	NC	NC	0.12 U	0.031 U	0.031 U	0.031 U	0.031 U	0.066 U	0.13 J	0.35 J	0.30 J	0.28 J	0.28 J	-
Carbon tetrachloride	ppb	NC	NC	0.15 UJ	0.038 U	0.081 J	0.078 J	0.075 J	0.080 J	0.075 J	0.090 J	0.12 J	0.090 J	0.11 J	-
Chlorobenzene	ppb	NC	NC	0.20 U	0.049 U	0.049 U	0.049 U	0.049 U	0.020 U	0.049 U	0.049 U	0.049 U	0.049 U	0.098 U	-
Chlorodifluoromethane	ppb	NC	NC	0.94	0.34	0.84	0.70	0.87	0.25 J	0.40	0.27	0.60	0.27	0.62	-
Chloroethane	ppb	NC	NC	0.14 U	0.035 U	0.035 U	0.035 U	0.035 U	0.016 U	0.035 U	0.035 U	0.035 U	0.035 U	0.070 U	-
Chloroform (Trichloromethane)	ppb	80	800	0.37 J	0.038 U	0.066 J	0.049 J	0.074 J	0.049 J	0.038 U	0.038 U	0.15 J	0.038 U	0.18 J	-
Chloromethane (Methyl chloride)	ppb	NC	NC	0.64 U	0.53	0.54	0.59	0.68	0.51	0.69	0.87	1.9	1.1	2.3	-
cis-1,2-Dichloroethene	ppb	37	370	0.37 J	0.060 U	0.077 J	0.060 U	0.093 J	0.014 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	-
cis-1,3-Dichloropropene	ppb	NC	NC	0.30 U	0.074 U	0.074 U	0.074 U	0.074 U	0.016 U	0.074 U	0.074 U	0.074 U	0.074 U	0.15 U	-
Cyclohexane	ppb	NC	NC	7.6	0.040 U	0.21 J	0.077 J	0.16 J	0.055 J	0.078 J	0.29 J	0.37 J	0.33 J	0.50 J	-
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.23 U	0.057 U	0.057 U	0.057 U	0.060 J	0.048 U	0.057 U	0.057 U	0.21	0.061 J	0.15 J	-
Dibromochloromethane	ppb	NC	NC	0.17 U	0.042 U	0.042 U	0.042 U	0.042 U	0.021 U	0.042 U	0.042 U	0.042 U	0.042 U	0.084 U	-
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.44 J	0.52	0.49	0.50	0.56	0.49 J	0.52	0.44	0.64	0.42	0.68	-
Ethylbenzene	ppb	250	2500	10	0.068 U	0.17 J	0.094 J	0.17 J	0.058 J	0.075 J	0.21	1.2	0.32	0.95	-
Hexachlorobutadiene	ppb	NC	NC	0.31 U	0.078 UJ	0.078 UJ	0.078 UJ	0.078 UJ	0.065 U	0.078 UJ	0.078 U	0.078 U	0.078 U	0.16 U	-
Hexane	ppb	NC	NC	29	0.032 U	0.23 J	0.17 J	0.24 J	0.17 J	0.39 J	0.58	1.2	0.68	1.2	-
Isopropyl alcohol	ppb	NC	NC	6.7 J	0.10 J	25 J	14 J	30 J	0.037 U	0.53 J	2.8	9.3	6.2	10	-
Isopropyl benzene	ppb	NC	NC	0.72 J	0.060 U	0.060 U	0.060 U	0.060 U	0.031 U	0.060 U	0.060 U	0.13 J	0.060 U	0.12 U	-
m&p-Xylenes	ppb	200	2000	37	0.12 U	0.58	0.29	0.51	0.15 J	0.19 J	0.58	4.4	1.3	3.6	-
Methyl methacrylate	ppb	NC	NC	1.1 J	0.079 U	0.26 J	0.13 J	0.079 U	0.013 U	0.079 U	0.079 U	0.39 J	0.079 U	0.34 J	-
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.68 U	0.17 U	0.17 U	0.17 U	0.17 U	0.016 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	-
Methylene chloride	ppb	NC	NC	10	0.14 J	0.45 J	0.40 J	0.39 J	0.12 J	0.045 U	0.045 U	0.045 U	0.045 U	0.090 U	-
Naphthalene	ppb	2.9	NC	0.89 J	0.090 UJ	0.12 J	0.090 UJ	0.090 UJ	0.086 U	0.090 UJ	0.090 U	0.37 J	0.20 J	0.34 J	-
N-Butylbenzene	ppb	NC	NC	0.82 J	0.046 U	0.046 U	0.046 U	0.046 U	0.055 U	0.046 U	0.046 UJ	0.10 J	0.046 UJ	0.092 U	-
N-Decane	ppb	NC	NC	-	-	3.8	1.6	-	-	0.056 U	-	0.54 J	-	0.47 J	-
N-Dodecane	ppb	NC	NC	-	-	0.56 J	0.14 J	-	-	0.078 UJ	-	0.75 J	-	0.77 J	-
N-Heptane	ppb	NC	NC	10	0.047 U	1.9	0.59	1.0	0.085 J	0.19 J	0.49 J	2.6	0.89	4.2	-

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	-	1.7	0.70	-	-	0.043 U	-	0.26 J	-	0.24 J	-
N-Propylbenzene	ppb		NC		NC	1.9	0.056 U	0.057 J	0.056 U	0.056 J	0.050 U	0.056 U	0.056 U	0.21 J	0.056 U	0.16 J	-
N-Undecane	ppb		NC		NC	-	-	1.6 J	0.53 J	-	-	0.062 U	-	2.0	-	1.7 J	-
Octane	ppb		NC		NC	-	-	0.11 J	0.066 J	-	-	0.077 J	-	0.52	-	0.64 J	-
o-Xylene	ppb	200		2000		12	0.061 U	0.25	0.12 J	0.23	0.051 J	0.062 J	0.19 J	1.7	0.48	1.4	-
Pentane	ppb		NC		NC	-	-	4.3	4.1	-	-	0.82 J	-	15	-	19	-
Styrene	ppb		NC		NC	0.58 J	0.058 U	0.075 J	0.058 U	0.067 J	0.030 U	0.058 U	0.058 U	0.62	0.083 J	0.55	-
tert-Butyl alcohol	ppb		NC		NC	0.84 J	0.038 U	0.15 J	0.11 J	0.18 J	0.071 U	0.038 U	0.50 J	0.94 J	0.56 J	0.84 J	-
tert-Butylbenzene	ppb		NC		NC	0.26 U	0.066 U	0.066 U	0.066 U	0.066 U	0.047 U	0.066 U	0.066 U	0.066 U	0.066 U	0.13 U	-
Tetrachloroethene	ppb	25		250		0.51 J	0.040 U	0.62	0.41	0.67	0.023 J	0.040 U	0.040 U	0.054 J	0.040 U	0.080 U	-
Tetrahydrofuran	ppb		NC		NC	0.25 U	0.063 U	0.063 U	0.075 J	0.063 U	0.018 U	0.063 U	0.18 J	0.063 U	0.10 J	0.13 U	-
Toluene	ppb		NC		NC	74	0.054 U	1.5	0.83	1.6	0.39	0.85	13	35	22	57	-
trans-1,2-Dichloroethene	ppb		NC		NC	0.20 U	0.050 U	0.083 J	0.050 U	0.089 J	0.032 U	0.050 U	0.091 J	0.36	0.17 J	0.44	-
trans-1,3-Dichloropropene	ppb		NC		NC	0.19 U	0.048 U	0.048 U	0.048 U	0.048 U	0.020 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	-
Trichloroethene	ppb	2		20		5.6*	0.036 U	2.7*	1.6	3.1*	0.030 U	0.036 U	0.047 J	0.043 J	0.080 J	0.072 U	-
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.55 J	0.17 J	0.27	0.24	0.28	0.21	0.29	0.22	0.47	0.25	0.48	-
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.12 U	0.031 U	0.066 J	0.062 J	0.074 J	0.076 J	0.071 J	0.14 J	0.99	0.20	1.1	-
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.14 U	0.035 U	0.035 U	0.035 U	0.035 U	0.019 U	0.035 U	0.035 U	0.035 U	0.035 U	0.070 U	-
Vinyl chloride	ppb	2		20		0.28 U	0.071 U	0.071 U	0.071 U	0.071 U	0.029 U	0.071 U	0.071 U	0.071 U	0.071 U	0.14 U	-
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	0.20	-	-	-	-	-	-
Gases																	
Methane	%	0.05		0.05		-	-	0.19 U[ab]	0.20 U[ab]	-	-	0.21 U[ab]	-	0.21 U[ab]	-	0.19 U[ab]	-
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	0.0 / 0.0	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0	0.0 / 0	-	0 / 0	0.0	0 / 0	0 / 0.0	0 / 0	0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5172, Bldg 14, IA_C*	*Parcel 5172, Bldg 14, IA_C*	*Parcel 5172, Bldg 14, on top of GP-15-09*	*Parcel 5172, Bldg 13*	*Parcel 5172, Bldg 13*	*Parcel 5172, Bldg 13, IA*	*Parcel 5173, Bldg 15*	*Parcel 5173, Bldg 15, IA_A*	*Parcel 5173, Bldg 15, IA_B*	*Parcel 5173, Bldg 15, IA_C*	*Parcel 5174, Outdoor Air*	*Parcel 5174, Outdoor Air*
Sample Location:				*2003 Dryden Road*	*2003 Dryden Road*	*2003 Dryden Road*	*2019 Dryden Road*	*2019 Dryden Road*	*2019 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2031 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*
Owner / Tenant:				*Bullseye Amusements*	*Bullseye Amusements*	*Bullseye Amusements*	*Overstreet Painting*	*Overstreet Painting*	*Overstreet Painting*	*SIM Trainer*	*SIM Trainer*	*SIM Trainer*	*SIM Trainer*	*Command Roofing*	*Command Roofing*
Sample ID:				*IA-38443-032712-JC-228*	*IA-38443-080212-GL-036*	*OA-38443-032712-JC-223*	*OA-38443-031512-JC-219*	*-*	*IA-38443-031512-JC-220*	*OA-38443-031312-JC-174*	*IA-38443-031312-JC-175*	*IA-38443-031312-JC-177*	*IA-38443-031312-JC-179*	*SS-38443-010912-JC-043*	*OA-38443-030612-JC-085*
Sample Date:				*3/27/2012*	*8/2/2012*	*3/27/2012*	*3/15/2012*	*8/7/2012*	*3/15/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*3/13/2012*	*1/9/2012*	*3/6/2012*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)* *a*	*ODH Indoor Air Action Levels (Non-residential)* *b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.088 J	0.53	0.030 U	0.030 U	-	0.60 U	0.030 U	0.030 U	0.030 U	0.12 U	0.035 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.12 U	0.061 U	0.061 U	-	1.2 U	0.061 U	0.061 U	0.061 U	0.24 U	0.040 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.11 U	0.054 U	0.054 U	-	1.1 U	0.054 U	0.054 U	0.054 U	0.22 U	0.019 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.052 U	0.026 U	0.026 U	-	0.52 U	0.026 U	0.026 U	0.026 U	0.10 U	0.035 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.064 U	0.032 U	0.032 U	-	0.64 U	0.032 U	0.032 U	0.032 U	0.13 U	0.030 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 U	0.20 U	0.098 U	0.098 U	-	2.0 U	0.098 U	0.098 U	0.098 U	0.39 U	0.050 U	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.72	1.4	0.063 U	0.12 J	-	53	0.063 U	0.45	0.34	0.74 J	0.052 U	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.088 U	0.044 U	0.044 U	-	0.88 U	0.044 U	0.044 U	0.044 U	0.18 U	0.018 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.14 U	0.070 U	0.070 U	-	1.4 U	0.070 U	0.070 U	0.070 U	0.28 U	0.048 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.094 U	0.047 U	0.047 U	-	1.5 J	0.047 U	0.047 U	0.047 U	0.19 U	0.031 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	0.014 U	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.10 U	0.052 U	0.052 U	-	1.0 U	0.052 U	0.052 U	0.052 U	0.21 U	0.014 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.064 U	0.032 U	0.032 U	-	0.64 U	0.032 U	0.032 U	0.032 U	0.13 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.16 J	0.13 U	0.065 UJ	0.065 UJ	-	8.2 J	0.065 U	0.12 J	0.088 J	0.26 U	0.051 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.59	1.6	0.064 U	0.064 U	-	1.3 U	0.064 U	0.064 U	0.31 J	0.26 U	0.010 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.13 U	0.065 U	0.065 U	-	1.3 U	0.065 U	0.065 U	0.065 U	0.26 U	0.044 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.13 U	0.064 U	0.064 U	-	1.3 U	0.064 U	0.064 UJ	0.064 UJ	0.26 UJ	0.044 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.16 U	0.080 U	0.080 U	-	1.6 U	0.080 U	0.080 U	0.080 U	0.32 U	0.088 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.096 J	0.30 J	0.039 U	0.25 J	-	99	0.039 U	0.055 J	0.039 U	0.85 J	0.066 J	0.039 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	2.8	7.3	0.38 J	0.44 J	-	4.0 U	0.38 J	0.85 J	0.57 J	2.3 J	0.43 J	0.20 U
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.13 U	0.063 U	0.063 U	-	1.3 U	0.063 U	0.063 U	0.063 U	0.25 U	0.047 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	0.12 U	0.058 U	0.058 U	-	1.2 U	0.058 U	0.058 U	0.058 U	0.23 U	0.039 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.13 U	0.064 U	0.064 U	-	1.3 U	0.064 U	0.064 U	0.064 U	0.26 U	0.047 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.095 J	0.13 U	0.066 U	0.066 U	-	11	0.066 U	0.33 J	0.13 J	0.47 J	0.046 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.23 J	1.7	0.045 U	0.045 U	-	1.2 J	0.045 U	3.7	11	6.1	0.026 U	0.045 U
Acetaldehyde	ppb	11	NC	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	15	31 J	1.4 U	3.9 J	-	28 U	2.2 J	23	6.1	10 J	1.8 J	1.4 U
Allyl chloride	ppb	NC	NC	0.048 U	0.096 U	0.048 U	0.048 U	-	0.96 U	0.048 U	0.048 U	0.048 U	0.19 U	0.019 U	0.048 U
Benzene	ppb	2	20	0.60	2.0	0.15 J	0.34	-	29[ab]	0.068 J	0.46	0.51	0.51 J	0.27	0.14 J
Benzyl chloride	ppb	NC	NC	0.078 U	0.16 U	0.078 U	0.078 U	-	1.6 U	0.078 U	0.078 U	0.078 U	0.31 U	0.046 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.088 U	0.044 U	0.044 U	-	0.88 U	0.044 U	0.044 U	0.044 U	0.18 U	0.028 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.096 U	0.048 U	0.048 U	-	0.96 U	0.048 U	0.048 U	0.048 U	0.19 U	0.019 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.064 U	0.032 U	0.032 U	-	0.64 U	0.032 U	0.032 U	0.032 U	0.13 U	0.012 U	0.032 U
Butane	ppb	NC	NC	3.5	6.5	0.72	15	-	270	0.75	2.7 J	1.2 J	8.9 J	2.2	0.89
Carbon disulfide	ppb	NC	NC	0.22 J	0.27 J	0.031 U	0.031 U	-	0.62 U	0.031 U	0.088 J	0.095 J	0.12 U	0.066 U	0.031 U
Carbon tetrachloride	ppb	NC	NC	0.090 J	0.12 J	0.086 J	0.086 J	-	0.76 UJ	0.071 J	0.096 J	0.082 J	0.15 U	0.064 J	0.049 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.098 U	0.049 U	0.049 U	-	0.98 U	0.049 U	0.049 U	0.049 U	0.20 U	0.020 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.26	0.66	0.32	4.5	-	3.3 J	0.49	0.94 J	0.97 J	1.5 J	0.31 J	1.1
Chloroethane	ppb	NC	NC	0.035 U	0.070 U	0.035 U	0.035 U	-	0.70 U	0.035 U	0.035 U	0.035 U	0.14 U	0.016 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	0.15 J	0.038 U	0.060 J	-	0.76 U	0.038 U	0.077 J	0.038 U	0.15 U	0.031 U	0.038 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.97	1.7	0.57	0.63	-	3.2 U	0.60	1.1	0.81	0.64 U	0.48 J	0.75
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.12 U	0.060 U	0.060 U	-	1.2 U	0.060 U	0.060 U	0.060 U	0.24 U	0.014 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.15 U	0.074 U	0.074 U	-	1.5 U	0.074 U	0.074 U	0.074 U	0.30 U	0.016 U	0.074 U
Cyclohexane	ppb	NC	NC	0.31 J	0.40 J	0.040 U	0.14 J	-	9.0 J	0.040 U	0.33 J	0.13 J	4.1	0.067 J	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.084 J	0.16 J	0.057 U	0.057 U	-	1.1 U	0.057 U	0.057 U	0.057 U	0.23 U	0.048 U	0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	0.084 U	0.042 U	0.042 U	-	0.84 U	0.042 U	0.042 U	0.042 U	0.17 U	0.021 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.43	0.72	0.42	0.46	-	1.4 U	0.41	0.56	0.54	0.72 J	0.50	0.72
Ethylbenzene	ppb	250	2500	0.33	0.81	0.068 U	0.14 J	-	23	0.068 U	0.15 J	0.12 J	0.43 J	0.086 J	0.068 U
Hexachlorobutadiene	ppb	NC	NC	0.078 U	0.16 U	0.078 U	0.078 U	-	1.6 U	0.078 U	0.078 U	0.078 U	0.31 U	0.065 U	0.078 U
Hexane	ppb	NC	NC	0.44 J	1.0	0.24 J	1.3	-	46	0.098 J	2.5	0.61	25	0.27	0.26 J
Isopropyl alcohol	ppb	NC	NC	6.1	10	0.21 J	0.89 J	-	14 J	0.15 J	24	1.3 J	6.1 J	0.55 J	0.42 J
Isopropyl benzene	ppb	NC	NC	0.060 U	0.12 U	0.060 U	0.060 U	-	2.7 J	0.060 U	0.060 U	0.060 U	0.24 U	0.031 U	0.060 U
m&p-Xylenes	ppb	200	2000	1.3	3.1	0.12 U	0.46	-	100	0.12 U	0.52	0.43	1.6	0.27 J	0.12 U
Methyl methacrylate	ppb	NC	NC	0.079 U	0.36 J	0.079 U	0.079 U	-	1.6 U	0.079 U	0.079 U	0.079 U	0.32 U	0.013 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.34 U	0.17 U	0.17 U	-	3.4 U	0.17 U	0.17 U	0.17 U	0.68 U	0.016 U	0.17 U
Methylene chloride	ppb	NC	NC	0.045 U	0.090 U	0.045 U	8.8	-	0.90 U	0.17 J	0.31 J	0.29 J	1.4 J	0.21 U	0.84
Naphthalene	ppb	2.9	NC	0.17 J	0.18 U	0.090 U	0.090 U	-	3.3 J*	0.090 U	0.25 J	0.090 U	0.36 U	0.086 U	0.090 U
N-Butylbenzene	ppb	NC	NC	0.046 UJ	0.092 U	0.046 UJ	0.046 U	-	2.5 J	0.046 U	0.068 J	0.046 U	0.18 U	0.055 U	0.046 U
N-Decane	ppb	NC	NC	-	0.39 J	-	-	-	-	-	-	-	-	-	-
N-Dodecane	ppb	NC	NC	-	0.35 J	-	-	-	-	-	-	-	-	-	-
N-Heptane	ppb	NC	NC	0.67	2.7	0.093 J	0.16 J	-	16	0.047 U	0.23 J	0.097 J	1.4 J	0.15 J	0.063 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	0.22 J	-	-	-	-	-	-	-	-	-
N-Propylbenzene	ppb		NC		NC	0.057 J	0.15 J	0.056 U	0.056 U	-	6.0 J	0.056 U	0.056 U	0.056 U	0.22 U	0.050 U	0.056 U
N-Undecane	ppb		NC		NC	-	1.5 J	-	-	-	-	-	-	-	-	-	-
Octane	ppb		NC		NC	-	0.46 J	-	-	-	-	-	-	-	-	-	-
o-Xylene	ppb	200		2000		0.47	1.2	0.061 U	0.14 J	-	34	0.061 U	0.21	0.17 J	0.62 J	0.10 J	0.061 U
Pentane	ppb		NC		NC	-	26	-	-	-	-	-	-	-	-	-	-
Styrene	ppb		NC		NC	0.094 J	0.47	0.058 U	0.058 U	-	1.2 U	0.058 U	0.12 J	0.083 J	0.23 U	0.030 U	0.058 U
tert-Butyl alcohol	ppb		NC		NC	0.38 J	0.97 J	0.038 U	0.041 J	-	0.76 U	0.046 J	0.28 J	0.12 J	0.15 U	0.071 U	0.038 U
tert-Butylbenzene	ppb		NC		NC	0.066 U	0.13 U	0.066 U	0.066 U	-	1.3 U	0.066 U	0.066 U	0.066 U	0.26 U	0.047 U	0.066 U
Tetrachloroethene	ppb	25		250		0.040 U	0.080 U	0.040 U	0.054 J	-	0.80 U	0.040 U	0.84	1.4	120*	0.011 U	0.040 U
Tetrahydrofuran	ppb		NC		NC	0.063 U	0.13 U	0.063 U	0.063 U	-	1.3 U	0.063 U	0.063 U	0.063 U	0.25 U	0.018 U	0.063 U
Toluene	ppb		NC		NC	34	34	0.39	3.1	-	580	0.16 J	3.6	1.3	15	0.65	0.18 J
trans-1,2-Dichloroethene	ppb		NC		NC	0.10 J	0.42	0.050 U	0.050 U	-	1.0 U	0.050 U	0.050 U	0.050 U	0.20 U	0.032 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.096 U	0.048 U	0.048 U	-	0.96 U	0.048 U	0.048 U	0.048 U	0.19 U	0.020 U	0.048 U
Trichloroethene	ppb	2		20		0.036 J	0.079 J	0.036 U	0.097 J	-	0.98 J	0.036 U	5.2*	0.13 J	1.6	0.42	0.66
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.23	0.47	0.20	0.53	-	0.58 J	0.20	0.35	0.24	0.30 J	0.24	0.23
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.14 J	0.96	0.068 J	0.070 J	-	0.62 U	0.060 J	0.090 J	0.078 J	0.12 U	0.071 J	0.077 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.070 U	0.035 U	0.035 U	-	0.70 U	0.035 U	0.035 U	0.035 U	0.14 U	0.019 U	0.035 U
Vinyl chloride	ppb	2		20		0.071 U	0.14 U	0.071 U	0.071 U	-	1.4 U	0.071 U	0.071 U	0.071 U	0.28 U	0.029 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	0.37	-
Gases																	
Methane	%	0.05		0.05		-	0.19 U[ab]	-	-	-	-	-	-	-	-	-	-
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-	-	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.05		0.05		0.0	0 / 0	0.0 / 0	0.0 / 0	0 / 0	0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0.0	0.0 / 0	-	0.0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5174, Outdoor Air*	*Parcel 5174, Outdoor Air*	*Parcel 5174, Bldg 16, IA_A*	*Parcel 5174, Bldg 16, IA_A*	*Parcel 5174, Bldg 16, IA_C*	*Parcel 5174, Bldg 16, IA_C*	*Parcel 5174, Bldg 16, IA_C*	*Parcel 5174, Bldg 16, IA_E*	*Parcel 5174, Bldg 16, IA_E*	*Parcel 5174, Bldg 16, IA_E*	*Parcel 5175*	*Parcel 5175*
Sample Location:				*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2045 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*
Owner / Tenant:				*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*Command Roofing*	*former Alliance Equipment*	*former Alliance Equipment*
Sample ID:				*OA-38443-080312-GL-047*	*OA-38443-091412-GL-028*	*IA-38443-030612-JC-086*	*IA-38443-080312-GL-039*	*IA-38443-030612-JC-088*	*IA-38443-030612-JC-089*	*IA-38443-080312-GL-043*	*IA-38443-030612-JC-092*	*IA-38443-080312-GL-046*	*IA-38443-091412-GL-027*	*OA-38443-030712-JC-104*	*OA-38443-080112-GL-023*
Sample Date:				*8/3/2012*	*9/14/2012*	*3/6/2012*	*8/3/2012*	*3/6/2012*	*3/6/2012*	*8/3/2012*	*3/6/2012*	*8/3/2012*	*9/14/2012*	*3/7/2012*	*8/1/2012*
									Duplicate						
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)*	*ODH Indoor Air Action Levels (Non-residential)*												
		a	*b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.060 U	0.030 U	2.1	0.060 U	0.030 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.12 U	0.061 U	0.061 U	0.12 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.11 U	0.054 U	0.054 U	0.11 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.087 J	0.026 U	0.026 U	0.052 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.098 U	0.098 U	0.098 UJ	0.098 U	0.098 U	0.20 UJ	0.098 U	0.098 U	0.20 U	0.098 UJ	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.063 U	0.097 J	1.9	3.7	1.1	0.99	0.13 U	0.65	0.063 U	0.44	0.063 U	0.28
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.14 U	0.070 U	0.070 U	0.14 U	0.070 U	0.31
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	0.047 U	0.36	0.062 J	0.087 J	2.0	0.047 U	0.047 U	0.14 J	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U	0.071 J	0.052 U	0.052 U	0.10 U	0.052 U	0.052 U	0.10 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U	0.11 J	0.064 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.065 U	0.61	1.1	0.32	0.31	0.13 U	0.20	0.065 U	0.14 J	0.065 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.081 J	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.13 U	0.065 U	0.065 U	0.13 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 UJ	0.064 U	0.064 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.13 UJ	0.064 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 UJ	0.080 U	0.31 J	0.080 U	0.080 U	0.40 J	0.080 U	0.080 U	0.16 UJ	0.080 UJ	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.052 J	0.10 J	0.34 J	0.39 J	0.23 J	0.21 J	0.38 J	0.079 J	0.039 U	0.19 J	0.042 J	0.058 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.79 J	0.46 J	0.33 J	30	0.36 J	0.32 J	44	0.31 J	0.65 J	12 J	0.29 J	1.2
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.13 U	0.063 U	0.063 U	0.13 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	0.058 U	0.058 U	0.12 J	0.058 U	0.058 U	0.12 U	0.058 U	0.058 U	0.12 U	0.058 UJ	0.11 J
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.092 J	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U	0.13 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.066 U	0.066 U	0.85	0.88	0.43	0.40	0.13 U	0.26 J	0.066 U	0.14 J	0.066 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.13 J	0.045 U	0.045 U	0.25 J	0.045 U	0.10 J	0.10 J	0.045 U	0.045 U	0.090 U	0.045 UJ	0.12 J
Acetaldehyde	ppb	11	NC	-	10 UJ	-	-	-	-	-	-	-	20 UJ#	-	-
Acetone	ppb	NC	NC	7.6	2.8 J	18	37	11	11	69	11	2.6 J	16 J	2.2 J	9.9 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U
Benzene	ppb	2	20	0.13 J	0.23	0.40	0.50	0.35	0.31	0.40	0.26	0.056 U	0.26 J	0.14 J	0.22
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.16 U	0.078 U	0.078 U	0.16 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U	0.088 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 UJ	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.096 UJ	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U	0.064 U	0.032 U	0.032 U
Butane	ppb	NC	NC	0.70	1.1	2.3	1.7	6.7	6.6	1.6	1.4	0.15 J	1.1	0.97	0.83
Carbon disulfide	ppb	NC	NC	0.16 J	0.031 U	0.071 J	0.54	0.043 J	0.031 J	0.26 J	0.037 J	0.41 J	0.27 J	0.040 J	0.040 J
Carbon tetrachloride	ppb	NC	NC	0.074 J	0.075 J	0.079 J	0.075 J	0.089 J	0.082 J	0.077 J	0.077 J	0.14 J	0.076 U	0.081 J	0.10 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.098 U	0.049 U	0.049 U	0.098 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.34	0.48	0.38	0.53	0.34	0.36	0.52	1.1	7.7	1.8	0.34	0.40
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.13 J	0.035 U	0.035 U	0.070 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	0.055 J	0.038 U	0.038 U	0.038 U	0.038 U	0.076 U	0.038 U	0.038 U	0.087 J	0.038 U	0.042 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.59	0.60	0.47 J	0.78	0.64	0.63	0.82 J	0.66	0.16 J	0.60 J	0.54	0.67
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.15 U	0.074 U	0.074 U	0.15 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	0.052 J	0.14 J	2.8	2.7	0.98	0.89	3.2	0.44 J	0.040 U	0.65 J	0.040 U	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.057 U	0.057 U	0.14 J	0.057 U	0.057 U	0.11 U	0.057 U	0.057 U	0.11 U	0.057 U	0.078 J
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.084 U	0.042 U	0.042 U	0.084 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.50	0.48	0.55	0.48	0.56	0.59	0.49	0.60	0.52	0.46	0.53	0.67
Ethylbenzene	ppb	250	2500	0.068 U	0.12 J	0.68	3.0	0.57	0.56	1.0	0.42	0.068 U	1.1	0.068 U	0.16 J
Hexachlorobutadiene	ppb	NC	NC	0.078 UJ	0.078 U	0.078 U	0.078 UJ	0.078 U	0.078 U	0.16 UJ	0.078 U	0.078 U	0.16 U	0.078 UJ	0.078 UJ
Hexane	ppb	NC	NC	0.40 J	0.31 J	11	14	13	13	69	9.2	0.53	8.4	0.17 J	0.22 J
Isopropyl alcohol	ppb	NC	NC	0.33 J	0.51 J	0.35 J	1.0 J	0.32 J	1.7 J	1.1 J	0.35 J	0.26 J	0.71 J	0.29 J	0.94 J
Isopropyl benzene	ppb	NC	NC	0.060 U	0.060 U	0.15 J	0.17 J	0.072 J	0.067 J	0.12 U	0.060 U	0.060 U	0.12 U	0.060 U	0.060 U
m&p-Xylenes	ppb	200	2000	0.16 J	0.35	2.4	11	2.0	2.0	2.4	1.4	0.12 U	4.1	0.12 U	0.58
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.14 J	0.16 U	0.079 U	0.079 U	0.16 U	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U	0.34 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	0.045 U	0.48 J	1.3	2.0	0.045 U	0.045 U	1.2	0.045 U	0.045 U	0.91 J	0.22 J	0.045 U
Naphthalene	ppb	2.9	NC	0.090 UJ	0.090 U	0.090 U	0.40 J	0.093 J	0.090 U	0.18 UJ	0.090 U	0.090 U	0.18 U	0.090 UJ	0.090 U
N-Butylbenzene	ppb	NC	NC	0.046 U	0.046 U	0.046 U	0.20 J	0.062 J	0.052 J	0.092 U	0.046 U	0.046 U	0.092 U	0.046 U	0.046 U
N-Decane	ppb	NC	NC	0.12 J	0.066 J	0.51 J	5.3 J	0.26 J	0.24 J	0.11 U	-	0.056 U	0.47 J	-	0.16 J
N-Dodecane	ppb	NC	NC	0.11 J	0.078 U	0.078 U	0.34 J	0.078 U	0.078 U	0.16 UJ	-	0.078 U	0.16 U	-	0.078 U
N-Heptane	ppb	NC	NC	0.088 J	0.23 J	7.2	5.5	1.7	1.6	2.6	0.81	0.047 U	1.6	0.11 J	0.13 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	0.085 J	0.043 U	3.0	4.2	1.0	1.0	0.62 J	-	0.043 U	0.62 J	-	0.077 J
N-Propylbenzene	ppb		NC		NC	0.056 U	0.056 U	0.57	0.50	0.27 J	0.25 J	0.11 U	0.16 J	0.056 U	0.11 U	0.056 U	0.056 U
N-Undecane	ppb		NC		NC	0.063 J	0.062 U	0.24 J	2.4	0.13 J	0.18 J	0.12 U	-	0.062 U	0.12 U	-	0.13 J
Octane	ppb		NC		NC	0.051 J	0.045 J	0.79	0.99	0.47	0.43	2.2	-	0.036 U	0.30 J	-	0.076 J
o-Xylene	ppb	200		2000		0.063 J	0.12 J	1.1	3.0	0.78	0.74	0.58	0.44	0.061 U	0.97	0.061 U	0.24
Pentane	ppb		NC		NC	0.55 J	0.87 J	8.3	46	7.0	7.3	73	-	0.32 J	19	-	0.49 J
Styrene	ppb		NC		NC	0.058 U	0.058 U	0.058 U	0.085 J	0.058 U	0.058 U	0.12 U	0.058 U	0.058 U	0.12 U	0.058 U	0.061 J
tert-Butyl alcohol	ppb		NC		NC	0.038 U	0.038 U	0.045 J	0.27 J	0.059 J	0.20 J	0.21 J	0.097 J	0.055 J	0.15 J	0.068 J	0.17 J
tert-Butylbenzene	ppb		NC		NC	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.13 U	0.066 U	0.066 U	0.13 U	0.066 U	0.066 U
Tetrachloroethene	ppb	25		250		0.040 U	0.054 J	0.040 U	0.040 U	0.040 U	0.040 U	0.24 J	0.31	1.8	0.097 J	0.040 U	0.040 U
Tetrahydrofuran	ppb		NC		NC	0.063 U	0.11 J	0.26 J	0.29 J	0.063 U	0.087 J	0.19 J	0.063 U	0.063 U	0.13 U	0.063 U	0.063 U
Toluene	ppb		NC		NC	1.1	0.61	41	44	19	18	100	14	0.51	19	0.28	0.96
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.10 U	0.050 U	0.050 U	0.10 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U	0.096 U	0.048 U	0.048 U
Trichloroethene	ppb	2		20		0.036 U	0.059 J	0.036 U	0.050 J	0.036 U	0.036 U	0.072 U	0.055 J	50[ab]	0.098 J	0.036 U	0.16 J
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.50	0.30	0.18 J	0.60	0.16 J	0.17 J	0.42	0.20	1.5	0.32 J	0.23	0.34
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.076 J	0.072 J	0.062 J	0.078 J	0.063 J	0.067 J	0.081 J	0.077 J	0.079 J	0.067 J	0.066 J	0.089 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.070 U	0.035 U	0.035 U	0.070 U	0.035 U	0.035 U
Vinyl chloride	ppb	2		20		0.071 U	0.071 U	0.071 U	0.26	0.071 U	0.071 U	1.2	0.071 U	0.071 U	0.14 U	0.071 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	-	-
Gases																	
Methane	%	0.05		0.05		0.21 U[ab]	0.21 U[ab]	0.20 U[ab]	0.21 U[ab]	0.17 U[ab]	0.18 U[ab]	0.21 U[ab]	-	0.20 U[ab]	0.19 U[ab]	-	0.20 U[ab]
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0 / 0	-	0.0 / 0	0 / 0	0 / 0.0	0.0 / 0	0 / 0	0.0 / 0	0 / 0	-	0 / 0.0	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
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NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 5175, Bldg 17, IA_A*	*Parcel 5175, Bldg 17, IA_A*	*Parcel 5175, Bldg 17, IA_B*	*Parcel 5175, Bldg 17, IA_B*	*Parcel 5223*	*Parcel 5223*	*Parcel 5223, Bldg 28, IA_A*	*Parcel 5223, Bldg 28, IA_B*
Sample Location:				*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2075 Dryden Road*	*2229 Dryden Road*	*2229 Dryden Road*	*2229 Dryden Road*	*2229 Dryden Road*
Owner / Tenant:				*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*former Alliance Equipment*	*Vinny's Bar & Grille*	*Vinny's Bar & Grille*	*Vinny's Bar & Grille*	*Vinny's Bar & Grille*
Sample ID:				*IA-38443-030712-JC-105*	*IA-38443-080112-GL-022*	*IA-38443-030712-JC-107*	*IA-38443-080112-GL-021*	*OA-38443-091112-GL-006*	*OA-38443-091112-GL-007*	*IA-38443-091112-GL-005*	*IA-38443-091112-GL-002*
Sample Date:				*3/7/2012*	*8/1/2012*	*3/7/2012*	*8/1/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*	*9/11/2012*
									Duplicate		
Parameter	*Units*	*ODH Indoor Air Screening Levels (Non-residential)*	*ODH Indoor Air Action Levels (Non-residential)*								
		a	*b*								
Volatile Organic Compounds											
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.030 U	0.50	0.093 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	16	160	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ	0.098 UJ	0.098 U	0.098 U	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.063 U	0.063 U	0.17 J	0.62	0.063 U	0.095 J	0.30	0.51
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.070 U	0.29	0.070 U	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.12 J	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.10 J	0.065 U	0.065 U	0.093 J	0.18 J
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 UJ	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 UJ	0.080 U	0.080 UJ	0.080 U	0.080 U	0.080 U	0.080 UJ	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.043 J	0.039 U	0.070 J	0.049 J	0.056 J	0.048 J	0.060 J	0.15 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.22 J	0.40 J	0.22 J	1.0	0.77 J	0.90 J	0.67 J	1.0
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 UJ	0.058 UJ	0.058 UJ	0.087 J	0.058 U	0.069 J	0.058 U	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U	0.090 J	0.15 J
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.045 UJ	0.045 U	0.045 UJ	0.045 U	0.084 J	0.18 J	0.078 J	0.075 J
Acetaldehyde	ppb	11	NC	-	-	-	-	20 J*	22 J*	22 J*	21 J*
Acetone	ppb	NC	NC	1.9 J	3.9 J	1.7 J	8.7 J	5.0	4.3 J	7.1 J	4.6 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Benzene	ppb	2	20	0.16 J	0.092 J	0.19 J	0.17 J	0.17 J	0.15 J	0.18 J	0.52
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 UJ	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	0.88	0.62	1.3	0.65	0.72	0.74	0.90	2.8
Carbon disulfide	ppb	NC	NC	0.031 U	0.031 U	0.031 U	0.034 J	0.031 U	0.052 J	0.031 U	0.033 J
Carbon tetrachloride	ppb	NC	NC	0.083 J	0.093 J	0.077 J	0.097 J	0.083 J	0.075 J	0.071 J	0.079 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.57	0.37	3.8	0.38	0.38	0.36	1.3	1.9
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	80	800	0.038 U	0.038 U	0.038 U	0.043 J	0.038 U	0.038 U	1.0	0.061 J
Chloromethane (Methyl chloride)	ppb	NC	NC	0.50	0.97	0.52	0.72	0.56	0.50	0.65	0.46 J
cis-1,2-Dichloroethene	ppb	37	370	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	0.049 J	0.071 J	0.054 J	0.040 U	0.054 J	0.040 U	0.076 J	0.13 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.057 U	0.057 U	0.096 J	0.057 U	0.057 U	0.059 J	0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.52	0.61	0.52	0.60	0.56	0.55	0.64	0.78
Ethylbenzene	ppb	250	2500	0.068 U	0.068 U	0.11 J	0.13 J	0.068 U	0.079 J	0.093 J	0.31
Hexachlorobutadiene	ppb	NC	NC	0.078 UJ	0.078 UJ	0.078 UJ	0.078 UJ	0.078 UJ	0.078 U	0.078 U	0.078 U
Hexane	ppb	NC	NC	0.19 J	0.18 J	0.27 J	0.19 J	0.18 J	0.21 J	0.21 J	0.65
Isopropyl alcohol	ppb	NC	NC	0.36 J	0.42 J	0.25 J	0.84 J	0.47 J	0.31 J	6.0	0.71 J
Isopropyl benzene	ppb	NC	NC	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
m&p-Xylenes	ppb	200	2000	0.13 J	0.12 U	0.39	0.53	0.22	0.27	0.30	1.1
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.11 J
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	0.31 J	0.90	0.28 J	0.045 U	0.46 UJ	0.89 J	0.21 J	0.44 U
Naphthalene	ppb	2.9	NC	0.090 UJ	0.090 U	0.090 UJ	0.19 J	0.090 UJ	0.090 U	0.090 U	0.090 U
N-Butylbenzene	ppb	NC	NC	0.046 U	0.046 U	0.046 U	0.13 J	0.046 U	0.046 U	0.053 J	0.063 J
N-Decane	ppb	NC	NC	-	0.056 U	-	0.19 J	0.056 UJ	0.090 J	0.93 J	0.75 J
N-Dodecane	ppb	NC	NC	-	0.078 U	-	0.32 J	0.078 UJ	0.26 J	0.078 U	0.078 U
N-Heptane	ppb	NC	NC	0.098 J	0.047 U	0.13 J	0.12 J	0.097 J	0.10 J	0.13 J	0.33 J

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	0.043 U	-	0.075 J	0.043 U	0.052 J	0.69	0.67
N-Propylbenzene	ppb		NC		NC	0.056 U	0.056 U	0.056 U	0.084 J	0.056 U	0.056 U	0.056 U	0.087 J
N-Undecane	ppb		NC		NC	-	0.062 UJ	-	0.31 J	0.062 U	0.10 J	0.43 J	0.24 J
Octane	ppb		NC		NC	-	0.036 U	-	0.050 J	0.036 U	0.049 J	0.068 J	0.15 J
o-Xylene	ppb	200		2000		0.061 U	0.061 U	0.14 J	0.22	0.079 J	0.099 J	0.12 J	0.41
Pentane	ppb		NC		NC	-	0.39 J	-	0.38 J	0.50 J	0.43 J	0.96 J	4.5
Styrene	ppb		NC		NC	0.058 U	0.058 U	0.058 U	0.062 J	0.058 U	0.058 U	0.058 U	0.058 U
tert-Butyl alcohol	ppb		NC		NC	0.045 J	0.045 J	0.038 U	0.15 J	0.051 J	0.082 J	0.10 J	0.060 J
tert-Butylbenzene	ppb		NC		NC	0.066 U	0.066 U	0.066 U	0.067 J	0.066 U	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	25		250		0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.040 U	0.16 J	0.040 U
Tetrahydrofuran	ppb		NC		NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.088 J	0.063 U
Toluene	ppb		NC		NC	0.56	0.088 J	0.71	0.71	0.38	0.49	0.53	1.7
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	2		20		0.036 U	0.062 J	0.036 U	0.18 J	0.036 U	0.036 U	0.089 J	0.036 U
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.24	0.38	0.21	0.32	0.31	0.32	0.65	0.64
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.067 J	0.080 J	0.068 J	0.076 J	0.075 J	0.075 J	0.068 J	0.073 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	2		20		0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U	0.071 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-
Gases													
Methane	%	0.05		0.05		-	0.20 U[ab]	-	0.20 U[ab]	0.21 U[ab]	0.26 U[ab]	0.20 U[ab]	0.20 U[ab]
Field Parameter													
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0.0 / 0	0 / 0	0.0 / 0.0	0 / 0	-	-	-	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
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R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
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TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***		***ODH Indoor Air Screening Levels (Non-residential)***		***ODH Indoor Air Action Levels (Non-residential)***
			a		***b***
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	16		160	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	11			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	2		20	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	80		800	
Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	37		370	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	250		2500	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	200		2000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	2.9			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	200		2000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	25		250	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	2		20	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	2		20	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.05		0.05	
Field Parameter					
Methane, field (unfiltered)	%	0.05		0.05	
Methane, field (filtered)	%	0.05		0.05	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

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SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***		***ODH Indoor Air Screening Levels (Non-residential)***		***ODH Indoor Air Action Levels (Non-residential)***
			a		***b***
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	16		160	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	11			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	2		20	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	80		800	
Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	37		370	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	250		2500	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	200		2000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	2.9			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	200		2000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	25		250	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	2		20	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	2		20	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.05		0.05	
Field Parameter					
Methane, field (unfiltered)	%	0.05		0.05	
Methane, field (filtered)	%	0.05		0.05	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.2

SUMMARY OF INDUSTRIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3251, Bldg 29, Probe A*	*Parcel 3251, Bldg 29, Probe A*	*Parcel 3251, Bldg 29, Probe B*	*Parcel 3262, Bldg 33, Probe A*	*Parcel 3262, Bldg 33, Probe A*	*Parcel 3262, Bldg 33, Probe B*
Sample Location:				*2232 East River Road*	*2232 East River Road*	*2232 East River Road*	*2373 East River Road*	*2373 East River Road*	*2373 East River Road*
Owner / Tenant:				*Quinn Ogletree*	*Quinn Ogletree*	*Quinn Ogletree*	*Jim Worley*	*Jim Worley*	*Jim Worley*
Sample ID:				*SS-38443-080112-GL-025*	*SS-38443-091312-GL-029*	*SS-38443-010913-GL-010*	*SS-38443-080112-GL-026*	*SS-38443-091212-GL-018*	*SS-38443-010913-GL-003*
Sample Date:				*8/1/2012*	*9/13/2012*	*1/9/2013*	*8/1/2012*	*9/12/2012*	*1/9/2013*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Residential) a*	*ODH Sub-Slab Action Levels (Residential) b*						
Volatile Organic Compounds									
1,1,1-Trichloroethane	ppb	NC	NC	11	11	2.6	0.23	0.24	0.13 J
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	37	370	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.098 UJ	0.098 U	0.098 UJ	0.098 UJ	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.35	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	0.047 U	0.11 J	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.039 U	0.039 U	0.039 U	0.039 U	0.039 U	19
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.30 J	0.20 U	0.34 J	0.35 J	0.31 J	0.57 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U	0.059 J
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.066 J	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.045 U	0.045 U	0.045 U	0.098 J	0.079 J	0.28 J
Acetaldehyde	ppb	25	NC	-	36 J*	-	-	60 J*	-
Acetone	ppb	NC	NC	3.8 J	1.4 U	4.2 J	3.0 J	4.3 J	5.5
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Benzene	ppb	4	40	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	0.16 J	0.064 U	0.49	0.43 J	1.1	0.69
Carbon disulfide	ppb	NC	NC	0.040 J	0.031 U	0.045 J	0.081 J	0.031 U	0.031 U
Carbon tetrachloride	ppb	NC	NC	0.039 J	0.038 U	0.038 U	0.038 UJ	0.038 U	0.038 U
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.31	0.21	0.15 J	0.29	0.20	0.087 J
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	200	2000	0.43	0.96	0.038 U	0.12 J	0.038 U	0.038 U

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Chloromethane (Methyl chloride)	ppb		NC		NC	Chloromethane (Methyl chloride)	ppb		NC		NC	0.18 J	0.16 U	0.16 U
cis-1,2-Dichloroethene	ppb	88		880		cis-1,2-Dichloroethene	ppb	88		880		0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb		NC		NC	cis-1,3-Dichloropropene	ppb		NC		NC	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb		NC		NC	Cyclohexane	ppb		NC		NC	0.040 U	0.040 U	0.040 U
Cymene (p-Isopropyltoluene)	ppb		NC		NC	Cymene (p-Isopropyltoluene)	ppb		NC		NC	0.057 U	0.057 U	0.057 U
Dibromochloromethane	ppb		NC		NC	Dibromochloromethane	ppb		NC		NC	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC	Dichlorodifluoromethane (CFC-12)	ppb		NC		NC	0.28 J	0.48	0.41
Ethylbenzene	ppb	600		6000		Ethylbenzene	ppb	600		6000		0.068 U	0.068 U	0.068 U
Hexachlorobutadiene	ppb		NC		NC	Hexachlorobutadiene	ppb		NC		NC	0.078 U	0.078 UJ	0.078 U
Hexane	ppb		NC		NC	Hexane	ppb		NC		NC	0.041 J	0.032 U	0.14 J
Isopropyl alcohol	ppb		NC		NC	Isopropyl alcohol	ppb		NC		NC	0.40 J	0.044 U	0.28 J
Isopropyl benzene	ppb		NC		NC	Isopropyl benzene	ppb		NC		NC	0.060 U	0.060 U	0.060 U
m&p-Xylenes	ppb	500		5000		m&p-Xylenes	ppb	500		5000		0.12 U	0.12 U	0.12 U
Methyl methacrylate	ppb		NC		NC	Methyl methacrylate	ppb		NC		NC	0.079 U	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb		NC		NC	Methyl tert butyl ether (MTBE)	ppb		NC		NC	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb		NC		NC	Methylene chloride	ppb		NC		NC	0.045 U	0.85	0.97
Naphthalene	ppb	7			NC	Naphthalene	ppb	7			NC	0.13 J	0.090 UJ	0.090 U
N-Butylbenzene	ppb		NC		NC	N-Butylbenzene	ppb		NC		NC	0.046 U	0.046 U	0.046 U
N-Decane	ppb		NC		NC	N-Decane	ppb		NC		NC	0.33 J	0.056 UJ	-
N-Dodecane	ppb		NC		NC	N-Dodecane	ppb		NC		NC	0.12 J	0.078 U	-
N-Heptane	ppb		NC		NC	N-Heptane	ppb		NC		NC	0.047 U	0.047 U	0.047 U
Nonane	ppb		NC		NC	Nonane	ppb		NC		NC	0.14 J	0.043 U	-
N-Propylbenzene	ppb		NC		NC	N-Propylbenzene	ppb		NC		NC	0.056 U	0.056 U	0.056 U
N-Undecane	ppb		NC		NC	N-Undecane	ppb		NC		NC	0.16 J	0.062 U	-
Octane	ppb		NC		NC	Octane	ppb		NC		NC	0.036 U	0.036 U	-
o-Xylene	ppb	500		5000		o-Xylene	ppb	500		5000		0.061 U	0.061 U	0.061 U
Pentane	ppb		NC		NC	Pentane	ppb		NC		NC	0.060 U	0.060 U	-
Styrene	ppb		NC		NC	Styrene	ppb		NC		NC	0.058 U	0.058 U	0.058 U
tert-Butyl alcohol	ppb		NC		NC	tert-Butyl alcohol	ppb		NC		NC	0.11 J	0.038 UJ	0.069 J
tert-Butylbenzene	ppb		NC		NC	tert-Butylbenzene	ppb		NC		NC	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	60		600		Tetrachloroethene	ppb	60		600		12	14	0.23
Tetrahydrofuran	ppb		NC		NC	Tetrahydrofuran	ppb		NC		NC	0.063 U	0.063 U	0.063 U
Toluene	ppb		NC		NC	Toluene	ppb		NC		NC	0.10 J	0.054 U	0.054 U
trans-1,2-Dichloroethene	ppb		NC		NC	trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	4		40		Trichloroethene	ppb	4		40		0.036 U	0.036 U	0.036 U
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.44	0.41	0.23
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.11 J	0.031 U	0.052 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	4		40		Vinyl chloride	ppb	4		40		0.071 U	0.071 U	0.071 UJ
Xylenes (total)	ppb		NC		NC	Xylenes (total)	ppb		NC		NC	-	-	
Gases						***Gases***								
Methane	%	0.5		0.5		Methane	%	0.5		0.5		0.18 U	0.20 U	-
Field Parameter						***Field Parameter***								
Methane, field (unfiltered)	%	0.5		0.5		Methane, field (unfiltered)	%	0.5		0.5		-	-	-
Methane, field (filtered)	%	0.5		0.5		Methane, field (filtered)	%	0.5		0.5		0 / 0	0 /0	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

Notes:

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TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
- Concentration was greater than applicable criteria.

JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
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TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3262, Bldg 33, Probe A*	*Parcel 3262, Bldg 33, Probe A*	*Parcel 3262, Bldg 33, Probe B*	*Parcel 3263, Bldg 34, Probe A*	*Parcel 3263, Bldg 34, Probe A*
Sample Location:				*2373 East River Road*	*2373 East River Road*	*2373 East River Road*	*2391 East River Road*	*2391 East River Road*
Owner / Tenant:				*Jim Worley*	*Jim Worley*	*Jim Worley*	*Jim Worley*	*Jim Worley*
Sample ID:				*SS-38443-080112-GL-026*	*SS-38443-091212-GL-018*	*SS-38443-010913-GL-003*	*SS-38443-080112-GL-024*	*SS-38443-091212-GL-016*
Sample Date:				*8/1/2012*	*9/12/2012*	*1/9/2013*	*8/1/2012*	*9/12/2012*
Parameter	*Units*	*ODH Sub-Slab Screening Levels (Residential) a*	*ODH Sub-Slab Action Levels (Residential) b*					
Volatile Organic Compounds								
1,1,1-Trichloroethane	ppb	NC	NC	0.23	0.24	0.13 J	1.5	1.5
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	37	370	0.026 U	0.026 U	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	0.098 UJ	0.098 U	0.098 UJ	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	0.070 U	0.070 U	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.11 J	0.047 U	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.039 U	0.039 U	19	0.039 U	0.039 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	0.35 J	0.31 J	0.57 J	0.33 J	0.31 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	0.058 U	0.059 J	0.058 UJ	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.098 J	0.079 J	0.28 J	0.045 U	0.045 U
Acetaldehyde	ppb	25	NC	-	60 J[a]	-	-	43 J[a]
Acetone	ppb	NC	NC	3.0 J	4.3 J	5.5	2.1 J	3.6 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Benzene	ppb	4	40	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	0.43 J	1.1	0.69	0.064 J	0.21 J
Carbon disulfide	ppb	NC	NC	0.081 J	0.031 U	0.031 U	0.13 J	0.056 J
Carbon tetrachloride	ppb	NC	NC	0.038 UJ	0.038 U	0.038 U	0.041 J	0.038 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.29	0.20	0.087 J	1.3	0.79
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	200	2000	0.12 J	0.038 U	0.038 U	0.051 J	0.041 J

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Chloromethane (Methyl chloride)	ppb		NC	NC	0.16 U	0.17 J	0.20 J	0.24 J	0.16 U
cis-1,2-Dichloroethene	ppb	88		880	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb		NC	NC	0.074 U	0.074 U	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb		NC	NC	0.14 J	0.040 U	0.29 J	0.040 U	0.040 U
Cymene (p-Isopropyltoluene)	ppb		NC	NC	0.057 U	0.057 U	0.057 U	0.057 U	0.057 U
Dibromochloromethane	ppb		NC	NC	0.042 U	0.042 U	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb		NC	NC	0.075 J	0.46	0.37	0.068 U	0.55
Ethylbenzene	ppb	600		6000	0.068 U	0.068 U	0.068 U	0.068 U	0.068 U
Hexachlorobutadiene	ppb		NC	NC	0.078 U	0.078 UJ	0.078 U	0.078 UJ	0.078 UJ
Hexane	ppb		NC	NC	0.11 J	0.12 J	0.14 J	0.10 J	0.076 J
Isopropyl alcohol	ppb		NC	NC	0.64 J	0.29 J	0.24 J	0.32 J	0.21 J
Isopropyl benzene	ppb		NC	NC	0.060 U	0.060 U	0.060 U	0.060 U	0.060 U
m&p-Xylenes	ppb	500		5000	0.15 J	0.12 U	0.12 U	0.12 U	0.12 U
Methyl methacrylate	ppb		NC	NC	0.079 U	0.079 U	0.079 U	0.094 J	0.079 U
Methyl tert butyl ether (MTBE)	ppb		NC	NC	0.17 U	0.17 U	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb		NC	NC	0.045 U	0.30 U	0.29 J	0.045 U	0.59 U
Naphthalene	ppb	7		NC	0.090 UJ	0.090 UJ	0.090 U	0.090 U	0.090 UJ
N-Butylbenzene	ppb		NC	NC	0.046 U	0.046 U	0.046 U	0.046 U	0.046 U
N-Decane	ppb		NC	NC	0.46 J	0.056 UJ	-	0.14 J	0.056 UJ
N-Dodecane	ppb		NC	NC	0.24 J	0.078 U	-	0.14 J	0.10 J
N-Heptane	ppb		NC	NC	0.057 J	0.047 U	0.15 J	0.047 U	0.047 U
Nonane	ppb		NC	NC	0.19 J	0.043 U	-	0.043 U	0.043 U
N-Propylbenzene	ppb		NC	NC	0.056 U	0.056 U	0.056 U	0.056 U	0.056 U
N-Undecane	ppb		NC	NC	0.33 J	0.062 U	-	0.064 J	0.062 U
Octane	ppb		NC	NC	0.038 J	0.036 U	-	0.036 U	0.036 U
o-Xylene	ppb	500		5000	0.061 U	0.061 U	0.061 U	0.061 U	0.061 U
Pentane	ppb		NC	NC	0.39 J	0.38 J	-	0.14 J	0.16 J
Styrene	ppb		NC	NC	0.058 U	0.058 U	0.058 U	0.058 U	0.058 U
tert-Butyl alcohol	ppb		NC	NC	0.10 J	0.046 J	0.095 J	0.17 J	0.045 J
tert-Butylbenzene	ppb		NC	NC	0.066 U	0.066 U	0.066 U	0.066 U	0.066 U
Tetrachloroethene	ppb	60		600	8.0	9.1	2.4	19	21
Tetrahydrofuran	ppb		NC	NC	0.063 U	0.063 U	0.063 U	0.16 J	0.14 J
Toluene	ppb		NC	NC	0.36	0.073 J	0.23	0.12 J	0.086 J
trans-1,2-Dichloroethene	ppb		NC	NC	0.050 U	0.050 U	0.050 U	0.050 U	0.050 U
trans-1,3-Dichloropropene	ppb		NC	NC	0.048 U	0.048 U	0.048 U	0.048 U	0.048 U
Trichloroethene	ppb	4		40	0.036 U	0.036 U	0.036 U	0.036 U	0.036 U
Trichlorofluoromethane (CFC-11)	ppb		NC	NC	0.63	0.56	0.36	0.71	0.73
Trifluorotrichloroethane (Freon 113)	ppb		NC	NC	0.13 J	0.11 J	0.071 J	0.15 J	0.15 J
Vinyl bromide (Bromoethene)	ppb		NC	NC	0.035 U	0.035 U	0.035 U	0.035 U	0.035 U
Vinyl chloride	ppb	4		40	0.071 U	0.071 U	0.071 UJ	0.071 U	0.071 U
Xylenes (total)	ppb		NC	NC	-	-		-	-
Gases									
Methane	%	0.5		0.5	0.19 U	0.19 U	-	0.19 U	0.19 U
Field Parameter									
Methane, field (unfiltered)	%	0.5		0.5	-	-	-	-	-
Methane, field (filtered)	%	0.5		0.5	0 /0	0 /0	-	0 / 0	0 /0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***	***ODH Sub-Slab Screening Levels (Residential) a***		***ODH Sub-Slab Action Levels (Residential) b***	
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	37		370	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	25			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	4		40	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	200		2000	

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	88		880	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	600		6000	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	500		5000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	7			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC
Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	500		5000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	60		600	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	4		40	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	4		40	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.5		0.5	
Field Parameter					
Methane, field (unfiltered)	%	0.5		0.5	
Methane, field (filtered)	%	0.5		0.5	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	*Units*	*ODH Sub-Slab Screening Levels (Residential) a*		*ODH Sub-Slab Action Levels (Residential) b*	
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	37		370	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	25			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	4		40	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	200		2000	

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	88		880	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	600		6000	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	500		5000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	7			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC
Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	500		5000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	60		600	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	4		40	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	4		40	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.5		0.5	
Field Parameter					
Methane, field (unfiltered)	%	0.5		0.5	
Methane, field (filtered)	%	0.5		0.5	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
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VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***	***ODH Sub-Slab Screening Levels (Residential) a***		***ODH Sub-Slab Action Levels (Residential) b***	
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	37		370	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	25			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	4		40	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	200		2000	

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	88		880	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	600		6000	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	500		5000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	7			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC
Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	500		5000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	60		600	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	4		40	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	4		40	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.5		0.5	
Field Parameter					
Methane, field (unfiltered)	%	0.5		0.5	
Methane, field (filtered)	%	0.5		0.5	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***	***ODH Sub-Slab Screening Levels (Residential) a***		***ODH Sub-Slab Action Levels (Residential) b***	
Volatile Organic Compounds					
1,1,1-Trichloroethane	ppb		NC		NC
1,1,2,2-Tetrachloroethane	ppb		NC		NC
1,1,2-Trichloroethane	ppb		NC		NC
1,1-Dichloroethane	ppb	37		370	
1,1-Dichloroethene	ppb		NC		NC
1,2,4-Trichlorobenzene	ppb		NC		NC
1,2,4-Trimethylbenzene	ppb		NC		NC
1,2-Dibromoethane (Ethylene dibromide)	ppb		NC		NC
1,2-Dichlorobenzene	ppb		NC		NC
1,2-Dichloroethane	ppb		NC		NC
1,2-Dichloroethene (total)	ppb		NC		NC
1,2-Dichloropropane	ppb		NC		NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb		NC		NC
1,3,5-Trimethylbenzene	ppb		NC		NC
1,3-Butadiene	ppb		NC		NC
1,3-Dichlorobenzene	ppb		NC		NC
1,4-Dichlorobenzene	ppb		NC		NC
1,4-Dioxane	ppb		NC		NC
2,2,4-Trimethylpentane	ppb		NC		NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb		NC		NC
2-Chlorotoluene	ppb		NC		NC
2-Hexanone	ppb		NC		NC
2-Phenylbutane (sec-Butylbenzene)	ppb		NC		NC
4-Ethyl toluene	ppb		NC		NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb		NC		NC
Acetaldehyde	ppb	25			NC
Acetone	ppb		NC		NC
Allyl chloride	ppb		NC		NC
Benzene	ppb	4		40	
Benzyl chloride	ppb		NC		NC
Bromodichloromethane	ppb		NC		NC
Bromoform	ppb		NC		NC
Bromomethane (Methyl bromide)	ppb		NC		NC
Butane	ppb		NC		NC
Carbon disulfide	ppb		NC		NC
Carbon tetrachloride	ppb		NC		NC
Chlorobenzene	ppb		NC		NC
Chlorodifluoromethane	ppb		NC		NC
Chloroethane	ppb		NC		NC
Chloroform (Trichloromethane)	ppb	200		2000	

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Chloromethane (Methyl chloride)	ppb		NC		NC
cis-1,2-Dichloroethene	ppb	88		880	
cis-1,3-Dichloropropene	ppb		NC		NC
Cyclohexane	ppb		NC		NC
Cymene (p-Isopropyltoluene)	ppb		NC		NC
Dibromochloromethane	ppb		NC		NC
Dichlorodifluoromethane (CFC-12)	ppb		NC		NC
Ethylbenzene	ppb	600		6000	
Hexachlorobutadiene	ppb		NC		NC
Hexane	ppb		NC		NC
Isopropyl alcohol	ppb		NC		NC
Isopropyl benzene	ppb		NC		NC
m&p-Xylenes	ppb	500		5000	
Methyl methacrylate	ppb		NC		NC
Methyl tert butyl ether (MTBE)	ppb		NC		NC
Methylene chloride	ppb		NC		NC
Naphthalene	ppb	7			NC
N-Butylbenzene	ppb		NC		NC
N-Decane	ppb		NC		NC
N-Dodecane	ppb		NC		NC
N-Heptane	ppb		NC		NC
Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	500		5000	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	60		600	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	4		40	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	4		40	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.5		0.5	
Field Parameter					
Methane, field (unfiltered)	%	0.5		0.5	
Methane, field (filtered)	%	0.5		0.5	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
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UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

TABLE E.3

SUMMARY OF RESIDENTIAL SUB-SLAB SOIL VAPOR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 2943, Bldg 36*	*Parcel 2943, Bldg 36*	*Parcel 2943, Bldg 36, Outdoor Air*	*Parcel 2943, Bldg 36, Outdoor Air*	*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35, Outdoor Air*
Sample Location:														
Owner / Tenant:				*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*
Sample ID:				*CS-38443-073112-GL-008*	*CS-38443-073112-GL-008*	*OA-38443-073112-GL-009*	*OA-38443-073112-GL-009*	*CS-38443-073112-GL-011*	*CS-38443-073112-GL-012*	*CS-38443-073112-GL-011*	*CS-38443-073112-GL-012*	*CS-38443-091112-GL-008*	*CS-38443-091112-GL-009*	*OA-38443-073112-GL-010*
Sample Date:				*7/31/2012*	*8/1/2012*	*7/31/2012*	*8/1/2012*	*7/31/2012*	*7/31/2012*	*8/1/2012*	*8/1/2012*	*9/11/2012*	*9/11/2012*	*7/31/2012*
									Duplicate		*Duplicate*		*Duplicate*	
Parameter	*Units*	*ODH Indoor Air Screening Levels (Residential)* *a*	*ODH Indoor Air Action Levels (Residential)* *b*											
Volatile Organic Compounds														
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	-	0.030 U	-	0.030 U	0.030 U	-	-	0.030 U	0.030 U	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	-	0.061 U	-	0.061 U	0.061 U	-	-	0.061 U	0.061 U	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	-	0.054 U	-	0.054 U	0.054 U	-	-	0.054 U	0.054 U	0.054 U
1,1-Dichloroethane	ppb	3.7	37	0.026 U	-	0.026 U	-	0.026 U	0.026 U	-	-	0.026 U	0.026 U	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	-	0.032 U	-	0.032 U	0.032 U	-	-	0.032 U	0.032 U	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	-	0.098 UJ	-	0.098 UJ	0.098 UJ	-	-	0.12 J	0.098 UJ	0.098 UJ
1,2,4-Trimethylbenzene	ppb	NC	NC	0.19 J	-	0.12 J	-	0.085 J	0.084 J	-	-	0.086 J	0.75 J	0.091 J
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	-	0.044 U	-	0.044 U	0.044 U	-	-	0.044 U	0.044 U	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	-	0.070 U	-	0.070 U	0.070 U	-	-	0.080 J	0.070 U	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.11 J	-	0.047 U	-	0.047 U	0.047 U	-	-	0.047 U	0.047 U	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	-	0.052 U	-	0.052 U	0.052 U	-	-	0.052 U	0.052 U	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	-	0.032 U	-	0.032 U	0.032 U	-	-	0.032 U	0.032 U	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	-	0.065 U	-	0.065 U	0.065 U	-	-	0.065 UJ	0.16 J	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	-	0.064 U	-	0.064 U	0.064 U	-	-	0.064 U	0.064 U	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	-	0.065 U	-	0.065 U	0.065 U	-	-	0.065 U	0.065 U	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	-	0.064 U	-	0.064 U	0.064 U	-	-	0.064 U	0.064 U	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	-	0.080 U	-	0.080 U	0.080 U	-	-	0.080 U	0.080 U	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.074 J	-	0.077 J	-	0.062 J	0.069 J	-	-	0.073 J	0.12 J	0.058 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	1.3	-	0.61 J	-	1.1	0.67 J	-	-	1.5	1.5	0.60 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	-	0.063 U	-	0.063 U	0.063 U	-	-	0.063 U	0.063 U	0.063 U
2-Hexanone	ppb	NC	NC	0.058 U	-	0.058 U	-	0.070 J	0.058 U	-	-	0.066 J	0.062 J	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	-	0.064 U	-	0.064 U	0.064 U	-	-	0.064 U	0.064 U	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.066 U	-	0.066 U	-	0.072 J	0.066 U	-	-	0.066 UJ	0.16 J	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.045 U	-	0.045 U	-	0.092 J	0.045 U	-	-	0.093 J	0.045 UJ	0.045 U
Acetaldehyde	ppb	2.5	NC	-	-	-	-	-	-	-	-	29 J*	47 J*	-
Acetone	ppb	NC	NC	5.4 J	-	4.0 J	-	7.9 J	5.6 J	-	-	7.4	8.9	4.0 J
Allyl chloride	ppb	NC	NC	0.048 U	-	0.048 U	-	0.048 U	0.048 U	-	-	0.048 U	0.048 U	0.048 U
Benzene	ppb	0.4	4	0.17 J	-	0.17 J	-	0.17 J	0.18 J	-	-	0.17 J	0.19 J	0.16 J
Benzyl chloride	ppb	NC	NC	0.078 U	-	0.078 U	-	0.078 U	0.078 U	-	-	0.078 U	0.078 U	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	-	0.044 U	-	0.044 U	0.044 U	-	-	0.044 U	0.044 U	0.044 U
Bromoform	ppb	NC	NC	0.048 U	-	0.048 U	-	0.048 U	0.048 U	-	-	0.048 U	0.048 U	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	-	0.032 U	-	0.032 U	0.032 U	-	-	0.032 U	0.032 U	0.032 U
Butane	ppb	NC	NC	1.6 J	-	1.1 J	-	1.8 J	1.9 J	-	-	0.91	0.94	1.1 J
Carbon disulfide	ppb	NC	NC	0.048 J	-	0.043 J	-	0.71 J	0.045 J	-	-	0.046 J	0.26 J	0.033 J
Carbon tetrachloride	ppb	NC	NC	0.10 J	-	0.097 J	-	0.12 J	0.12 J	-	-	0.084 J	0.082 J	0.11 J
Chlorobenzene	ppb	NC	NC	0.049 U	-	0.049 U	-	0.049 U	0.049 U	-	-	0.049 U	0.049 U	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.46	-	0.41	-	18	20	-	-	6.3	6.3	1.3
Chloroethane	ppb	NC	NC	0.035 U	-	0.035 U	-	0.28	0.035 U	-	-	0.035 U	0.035 U	0.035 U
Chloroform (Trichloromethane)	ppb	20	200	0.047 J	-	0.051 J	-	0.17 J	0.069 J	-	-	0.15 J	0.15 J	0.057 J
Chloromethane (Methyl chloride)	ppb	NC	NC	1.0	-	0.72	-	2.3 J	0.72 J	-	-	0.51	0.45 J	1.0
cis-1,2-Dichloroethene	ppb	8.8	88	0.060 U	-	0.060 U	-	0.060 U	0.060 U	-	-	0.060 U	0.060 U	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	-	0.074 U	-	0.074 U	0.074 U	-	-	0.074 U	0.074 U	0.074 U
Cyclohexane	ppb	NC	NC	0.040 U	-	0.040 U	-	0.040 U	0.040 U	-	-	0.11 J	0.096 J	0.040 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	-	0.057 U	-	0.057 U	0.057 U	-	-	0.057 U	0.057 U	0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	-	0.042 U	-	0.042 U	0.042 U	-	-	0.042 U	0.042 U	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.66 J	-	0.63 J	-	0.64 J	0.65 J	-	-	0.51	0.52	0.68 J
Ethylbenzene	ppb	60	600	0.12 J	-	0.094 J	-	0.082 J	0.089 J	-	-	0.090 J	0.17 J	0.10 J
Hexachlorobutadiene	ppb	NC	NC	0.078 U	-	0.078 U	-	0.078 U	0.078 U	-	-	0.078 UJ	0.078 UJ	0.078 U
Hexane	ppb	NC	NC	0.25 J	-	0.23 J	-	0.21 J	0.21 J	-	-	0.20 J	0.19 J	0.22 J
Isopropyl alcohol	ppb	NC	NC	3.3	-	2.7	-	0.94 J	1.1 J	-	-	0.49 J	0.37 J	0.98 J
Isopropyl benzene	ppb	NC	NC	0.060 U	-	0.060 U	-	0.060 U	0.060 U	-	-	0.060 U	0.060 U	0.060 U
m&p-Xylenes	ppb	50	500	0.41	-	0.35	-	0.26	0.29	-	-	0.29 J	0.81 J	0.30
Methyl methacrylate	ppb	NC	NC	0.079 U	-	0.079 U	-	0.079 U	0.079 U	-	-	0.079 U	0.079 U	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	-	0.17 U	-	0.17 U	0.17 U	-	-	0.17 U	0.17 U	0.17 U
Methylene chloride	ppb	NC	NC	0.045 U	-	0.045 U	-	0.045 U	0.045 U	-	-	0.21 U	0.24 U	0.045 U
Naphthalene	ppb	0.7	NC	0.090 UJ	-	0.090 UJ	-	0.090 UJ	0.15 J	-	-	0.10 J	0.52 J	0.090 UJ
N-Butylbenzene	ppb	NC	NC	0.046 U	-	0.046 U	-	0.046 U	0.046 U	-	-	0.046 UJ	0.085 J	0.046 U
N-Decane	ppb	NC	NC	0.21 J	-	0.21 J	-	0.17 J	0.33 J	-	-	0.25 J	0.12 J	0.15 J
N-Dodecane	ppb	NC	NC	0.078 UJ	-	0.078 UJ	-	0.078 UJ	0.33 J	-	-	0.078 U	0.078 U	0.078 UJ
N-Heptane	ppb	NC	NC	0.20 J	-	0.13 J	-	0.12 J	0.13 J	-	-	0.20 J	0.19 J	0.17 J

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	Nonane	ppb		NC		NC	0.10 J	-	0.10 J	-	0.068 J	0.14 J	-	-
N-Propylbenzene	ppb		NC		NC	N-Propylbenzene	ppb		NC		NC	0.056 U	-	0.056 U	-	0.056 U	0.056 U	-	-
N-Undecane	ppb		NC		NC	N-Undecane	ppb		NC		NC	0.067 J	-	0.091 J	-	0.078 J	0.64 J	-	-
Octane	ppb		NC		NC	Octane	ppb		NC		NC	0.071 J	-	0.043 J	-	0.036 U	0.036 U	-	-
o-Xylene	ppb	50		500		o-Xylene	ppb	50		500		0.15 J	-	0.13 J	-	0.099 J	0.11 J	-	-
Pentane	ppb		NC		NC	Pentane	ppb		NC		NC	0.69 J	-	0.48 J	-	0.49 J	0.48 J	-	-
Styrene	ppb		NC		NC	Styrene	ppb		NC		NC	0.058 U	-	0.058 U	-	0.068 J	0.12 J	-	-
tert-Butyl alcohol	ppb		NC		NC	tert-Butyl alcohol	ppb		NC		NC	0.089 J	-	0.067 J	-	0.24 J	0.18 J	-	-
tert-Butylbenzene	ppb		NC		NC	tert-Butylbenzene	ppb		NC		NC	0.066 U	-	0.066 U	-	0.066 U	0.066 U	-	-
Tetrachloroethene	ppb	6		60		Tetrachloroethene	ppb	6		60		0.042 J	-	0.040 U	-	0.040 U	0.040 U	-	-
Tetrahydrofuran	ppb		NC		NC	Tetrahydrofuran	ppb		NC		NC	0.84 J	-	0.063 U	-	0.063 U	0.063 U	-	-
Toluene	ppb		NC		NC	Toluene	ppb		NC		NC	0.58	-	0.58	-	0.45	0.52	-	-
trans-1,2-Dichloroethene	ppb		NC		NC	trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	-	0.050 U	-	0.050 U	0.050 U	-	-
trans-1,3-Dichloropropene	ppb		NC		NC	trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	-	0.048 U	-	0.048 U	0.048 U	-	-
Trichloroethene	ppb	0.4		4		Trichloroethene	ppb	0.4		4		0.036 U	-	0.036 U	-	0.036 U	0.036 U	-	-
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.34	-	0.32	-	0.36	0.35	-	-
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.087 J	-	0.081 J	-	0.087 J	0.086 J	-	-
Vinyl bromide (Bromoethene)	ppb		NC		NC	Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	-	0.035 U	-	0.035 U	0.035 U	-	-
Vinyl chloride	ppb	0.4		4		Vinyl chloride	ppb	0.4		4		0.071 U	-	0.071 U	-	0.081 J	0.071 U	-	-
Xylenes (total)	ppb		NC		NC	Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-
Gases						***Gases***													
Methane	%	0.05		0.05		Methane	%	0.05		0.05		0.19 U[ab]	-	0.21 U[ab]	-	0.18 U[ab]	0.19 U[ab]	-	-
Field Parameter						***Field Parameter***													
Methane, field (unfiltered)	%	0.05		0.05		Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		Methane, field (filtered)	%	0.05		0.05		0	0	0	0	0	0	0	0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
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Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
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R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
- Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35*	*Parcel 2943, Bldg 35, Outdoor Air*	*Parcel 2943, Bldg 35, Outdoor Air*	*Parcel 2943, Bldg 35, Outdoor Air*	*Parcel 3251, Bldg 29*	*Parcel 3251, Bldg 29, IA_A*	*Parcel 3251, Bldg 29, IA_A*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*
Sample Location:									*2232 East River Road*	*2232 East River Road*	*2232 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*
Owner / Tenant:				*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Village Park*	*Quinn Ogletree*	*Quinn Ogletree*	*Quinn Ogletree*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*
Sample ID:				*CS-38443-091112-GL-008*	*CS-38443-091112-GL-009*	*OA-38443-073112-GL-010*	*OA-38443-073112-GL-010*	*OA-38443-091112-GL-010*	*OA-38443-091312-GL-032*	*IA-38443-091312-GL-030*	*IA-38443-091312-GL-031*	*IA-38443-010312-GL-001*	*IA-38443-010312-GL-002*	*OA-38443-010312-GL-003*
Sample Date:				*9/11/2012*	*9/11/2012*	*7/31/2012*	*8/1/2012*	*9/11/2012*	*9/13/2012*	*9/13/2012*	*9/13/2012*	*1/3/2012*	*1/3/2012*	*1/3/2012*
					Duplicate									
Parameter	*Units*	*ODH Indoor Air Screening Levels (Residential)* *a*	*ODH Indoor Air Action Levels (Residential)* *b*											
Volatile Organic Compounds														
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	0.030 U	0.030 U	-	0.030 U	0.030 U	0.060 U	0.060 U	0.035 U	0.010 J	0.035 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	0.061 U	0.061 U	-	0.061 U	0.061 U	0.12 U	0.12 U	0.040 U	-	0.040 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	0.054 U	0.054 U	-	0.054 U	0.054 U	0.11 U	0.11 U	0.019 U	0.0050 U	0.019 U
1,1-Dichloroethane	ppb	3.7	37	0.026 U	0.026 U	0.026 U	-	0.026 U	0.026 U	0.052 U	0.052 U	0.035 U	0.0025 U	0.035 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	0.032 U	0.032 U	-	0.032 U	0.032 U	0.064 U	0.064 U	0.030 U	0.0050 U	0.030 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.12 J	0.098 UJ	0.098 UJ	-	0.098 U	0.098 UJ	0.20 UJ	0.20 UJ	0.050 U	-	0.050 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.086 J	0.75 J	0.091 J	-	0.063 U	0.22	0.29 J	0.35 J	0.052 U	-	0.052 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	0.044 U	0.044 U	-	0.044 U	0.044 U	0.088 U	0.088 U	0.018 U	0.0040 U	0.018 U
1,2-Dichlorobenzene	ppb	NC	NC	0.080 J	0.070 U	0.070 U	-	0.070 U	0.070 U	0.14 U	0.14 U	0.048 U	-	0.048 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	0.047 U	0.047 U	-	0.047 U	0.047 U	0.094 U	0.094 U	0.031 U	0.019	0.031 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	0.014 U	-	0.014 U
1,2-Dichloropropane	ppb	NC	NC	0.052 U	0.052 U	0.052 U	-	0.052 U	0.052 U	0.10 U	0.10 U	0.014 U	-	0.014 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	-	0.032 U	0.032 U	0.064 U	0.064 U	0.032 U	-	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 UJ	0.16 J	0.065 U	-	0.065 U	0.065 U	0.13 U	0.13 U	0.051 U	-	0.051 U
1,3-Butadiene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	-	0.064 U	0.064 U	0.13 U	0.13 U	0.045 J	-	0.052 J
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	0.065 U	0.065 U	-	0.065 U	0.065 U	0.13 U	0.13 U	0.044 U	-	0.044 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	0.064 U	0.064 U	-	0.064 UJ	0.064 U	0.13 U	0.13 U	0.044 U	-	0.044 U
1,4-Dioxane	ppb	NC	NC	0.080 U	0.080 U	0.080 U	-	0.080 UJ	0.080 U	0.16 U	0.16 U	0.088 U	-	0.088 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.073 J	0.12 J	0.058 J	-	0.061 J	0.29 J	0.34 J	0.29 J	0.036 U	-	0.036 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	1.5	1.5	0.60 J	-	0.58 J	0.68 J	4.5	5.2	0.57	-	0.37 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	0.063 U	0.063 U	-	0.063 U	0.063 U	0.13 U	0.13 U	0.047 U	-	0.047 U
2-Hexanone	ppb	NC	NC	0.066 J	0.062 J	0.058 U	-	0.058 U	0.058 U	0.12 U	0.12 U	0.039 U	-	0.039 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	0.064 U	0.064 U	-	0.064 U	0.064 U	0.13 U	0.13 U	0.047 U	-	0.047 U
4-Ethyl toluene	ppb	NC	NC	0.066 UJ	0.16 J	0.066 U	-	0.066 U	0.074 J	0.13 U	0.13 U	0.046 U	-	0.046 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.093 J	0.045 UJ	0.045 U	-	0.055 J	3.9	0.090 U	0.090 U	0.026 U	-	0.026 U
Acetaldehyde	ppb	2.5	NC	29 J*	47 J*	-	-	10 UJ*	15 J*	76 J*	86 J*	-	-	-
Acetone	ppb	NC	NC	7.4	8.9	4.0 J	-	2.3 J	7.7	660	640	3.7 J	-	1.9 J
Allyl chloride	ppb	NC	NC	0.048 U	0.048 U	0.048 U	-	0.048 U	0.048 U	0.096 U	0.096 U	0.019 U	-	0.019 U
Benzene	ppb	0.4	4	0.17 J	0.19 J	0.16 J	-	0.14 J	0.38	0.99*	0.76*	0.21	0.27	0.24
Benzyl chloride	ppb	NC	NC	0.078 U	0.078 U	0.078 U	-	0.078 U	0.078 U	0.16 U	0.16 U	0.046 U	-	0.046 U
Bromodichloromethane	ppb	NC	NC	0.044 U	0.044 U	0.044 U	-	0.044 U	0.044 U	0.13 J	0.10 J	0.028 U	-	0.028 U
Bromoform	ppb	NC	NC	0.048 U	0.048 U	0.048 U	-	0.048 UJ	0.048 U	0.096 U	0.096 U	0.019 U	-	0.019 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	0.032 U	0.032 U	-	0.032 U	0.032 U	0.064 U	0.064 U	0.012 U	-	0.012 U
Butane	ppb	NC	NC	0.91	0.94	1.1 J	-	0.77	1.5	7.7	7.0	0.98	-	0.67
Carbon disulfide	ppb	NC	NC	0.046 J	0.26 J	0.033 J	-	0.048 J	0.031 U	0.099 J	0.092 J	0.066 U	-	0.066 U
Carbon tetrachloride	ppb	NC	NC	0.084 J	0.082 J	0.11 J	-	0.061 J	0.091 J	0.12 J	0.095 J	0.064 J	-	0.073 J
Chlorobenzene	ppb	NC	NC	0.049 U	0.049 U	0.049 U	-	0.049 U	0.049 U	0.098 U	0.098 U	0.020 U	-	0.020 U
Chlorodifluoromethane	ppb	NC	NC	6.3	6.3	1.3	-	1.4	0.56	0.64	0.54	0.26 J	-	0.26 J
Chloroethane	ppb	NC	NC	0.035 U	0.035 U	0.035 U	-	0.035 U	0.035 U	0.070 U	0.070 U	0.016 U	-	0.016 U
Chloroform (Trichloromethane)	ppb	20	200	0.15 J	0.15 J	0.057 J	-	0.13 J	4.2	140*	120*	0.031 U	0.028	0.031 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.51	0.45 J	1.0	-	0.56	0.68	2.6	2.3	0.48 J	-	0.52
cis-1,2-Dichloroethene	ppb	8.8	88	0.060 U	0.060 U	0.060 U	-	0.060 U	0.060 U	0.12 U	0.12 U	0.014 U	0.0025 U	0.014 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	0.074 U	0.074 U	-	0.074 U	0.074 U	0.15 U	0.15 U	0.016 U	-	0.016 U
Cyclohexane	ppb	NC	NC	0.11 J	0.096 J	0.040 U	-	0.098 J	0.23 J	0.37 J	0.31 J	0.039 U	-	0.040 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	0.057 U	0.057 U	-	0.057 U	0.057 U	0.16 J	0.20 J	0.048 U	-	0.048 U
Dibromochloromethane	ppb	NC	NC	0.042 U	0.042 U	0.042 U	-	0.042 U	0.042 U	0.084 U	0.084 U	0.021 U	-	0.021 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.51	0.52	0.68 J	-	0.45	0.53	0.62	0.53	0.46 J	-	0.51
Ethylbenzene	ppb	60	600	0.090 J	0.17 J	0.10 J	-	0.077 J	0.25	0.70	0.73	0.036 J	-	0.034 J
Hexachlorobutadiene	ppb	NC	NC	0.078 UJ	0.078 UJ	0.078 U	-	0.078 U	0.078 UJ	0.16 UJ	0.16 UJ	0.065 U	-	0.065 U
Hexane	ppb	NC	NC	0.20 J	0.19 J	0.22 J	-	0.20 J	0.54	0.66 J	0.63 J	0.096 J	-	0.081 J
Isopropyl alcohol	ppb	NC	NC	0.49 J	0.37 J	0.98 J	-	0.57 J	0.99 J	15	16	0.037 U	-	0.34 J
Isopropyl benzene	ppb	NC	NC	0.060 U	0.060 U	0.060 U	-	0.060 U	0.060 U	0.12 U	0.12 U	0.031 U	-	0.031 U
m&p-Xylenes	ppb	50	500	0.29 J	0.81 J	0.30	-	0.24	0.87	2.1	2.3	0.10 J	-	0.098 J
Methyl methacrylate	ppb	NC	NC	0.079 U	0.079 U	0.079 U	-	0.079 U	0.079 U	0.16 U	0.16 U	0.013 U	-	0.013 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	0.17 U	0.17 U	-	0.17 U	0.17 U	0.34 U	0.34 U	0.016 U	-	0.016 U
Methylene chloride	ppb	NC	NC	0.21 U	0.24 U	0.045 U	-	0.22 J	0.38 U	36	32	0.098 J	0.093 U	0.10 J
Naphthalene	ppb	0.7	NC	0.10 J	0.52 J	0.090 UJ	-	0.090 U	0.090 UJ	0.18 UJ	0.18 UJ	0.086 U	0.0070 U	0.086 U
N-Butylbenzene	ppb	NC	NC	0.046 UJ	0.085 J	0.046 U	-	0.046 U	0.046 U	0.092 U	0.092 U	0.055 U	-	0.055 U
N-Decane	ppb	NC	NC	0.25 J	0.12 J	0.15 J	-	0.056 U	0.21 J	0.46 J	0.49 J	-	-	-
N-Dodecane	ppb	NC	NC	0.078 U	0.078 U	0.078 UJ	-	0.078 U	0.11 J	0.34 J	0.24 J	-	-	-
N-Heptane	ppb	NC	NC	0.20 J	0.19 J	0.17 J	-	0.25 J	0.59	2.8	2.4	0.077 J	-	0.090 J

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	0.043 U	0.056 J	0.085 J	-	0.043 U	0.067 J	0.42 J	0.45 J	-	-	-
N-Propylbenzene	ppb		NC		NC	0.056 U	0.075 J	0.056 U	-	0.056 U	0.056 U	0.11 U	0.11 U	0.050 U	-	0.050 U
N-Undecane	ppb		NC		NC	0.12 J	0.13 J	0.11 J	-	0.062 U	0.17 J	0.31 J	0.25 J	-	-	-
Octane	ppb		NC		NC	0.039 J	0.045 J	0.061 J	-	0.036 U	0.090 J	1.0	0.84	-	-	-
o-Xylene	ppb	50		500		0.11 J	0.38 J	0.12 J	-	0.091 J	0.31	0.55	0.64	0.041 J	-	0.038 J
Pentane	ppb		NC		NC	0.69 J	0.59 J	0.62 J	-	0.44 J	1.5	8.0	7.2	-	-	-
Styrene	ppb		NC		NC	0.058 U	0.058 U	0.058 U	-	0.058 U	0.058 U	3.1	3.8	0.030 U	-	0.030 U
tert-Butyl alcohol	ppb		NC		NC	0.10 J	0.067 J	0.058 J	-	0.038 U	0.041 J	0.56 J	0.59 J	0.071 U	-	0.071 U
tert-Butylbenzene	ppb		NC		NC	0.066 U	0.066 U	0.066 U	-	0.066 U	0.066 U	0.13 U	0.13 U	0.047 U	-	0.047 U
Tetrachloroethene	ppb	6		60		0.063 J	0.040 U	0.040 U	-	0.040 U	0.13 J	0.69	0.58	0.056 J	0.062	0.045 J
Tetrahydrofuran	ppb		NC		NC	0.085 J	0.082 J	0.063 U	-	0.063 U	0.066 J	0.64 J	0.72 J	0.018 U	-	0.018 U
Toluene	ppb		NC		NC	0.47	0.67	0.55	-	0.41	1.6	5.3	4.9	0.24	-	0.24
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	0.050 U	0.050 U	-	0.050 U	0.050 U	0.10 U	0.10 U	0.032 U	0.0050 U	0.032 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	0.048 U	0.048 U	-	0.048 U	0.048 U	0.096 U	0.096 U	0.020 U	-	0.020 U
Trichloroethene	ppb	0.4		4		0.036 U	0.036 U	0.036 U	-	0.036 U	0.036 U	0.072 U	0.072 U	0.030 U	0.013	0.030 U
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.33	0.34	0.33	-	0.27	0.35	0.48	0.44	0.21	-	0.21
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.069 J	0.076 J	0.086 J	-	0.064 J	0.082 J	0.084 J	0.077 J	0.071 J	-	0.074 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	0.035 U	0.035 U	-	0.035 U	0.035 U	0.070 U	0.070 U	0.019 U	-	0.019 U
Vinyl chloride	ppb	0.4		4		0.071 U	0.071 U	0.071 U	-	0.071 U	0.071 U	0.14 U	0.14 U	0.029 U	0.0034 J	0.029 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	0.14 J	-	0.14 J
Gases																
Methane	%	0.05		0.05		0.18 U[ab]	0.18 U[ab]	0.20 U[ab]	-	0.18 U[ab]	0.18 U[ab]	0.18 U[ab]	0.18 U[ab]	-	-	-
Field Parameter																
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-	0.0	0.0	0.0
Methane, field (filtered)	%	0.05		0.05		-	-	0	0	-	-	-	-	-	-	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26*	*Parcel 3253, Bldg 26, Outdoor Air*	*Parcel 3253, Bldg 26, Outdoor Air*	*Parcel 3253, Bldg 27*	*Parcel 3253, Bldg 27*
Sample Location:				*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*	*2233 East River Road*
Owner / Tenant:				*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*	*Ron Barnett*
Sample ID:				*IA-38443-010312-GL-001*	*IA-38443-010312-GL-002*	*OA-38443-010312-GL-003*	*IA-38443-073112-GL-013*	*IA-38443-073112-GL-014*	*IA-38443-073112-GL-013*	*IA-38443-073112-GL-014*	*IA-38443-010913-GL-005*	*OA-38443-073112-GL-017*	*OA-38443-073112-GL-017*	-	-
Sample Date:				*1/4/2012*	*1/4/2012*	*1/4/2012*	*7/31/2012*	*7/31/2012*	*8/1/2012*	*8/1/2012*	*1/9/2013*	*7/31/2012*	*8/1/2012*	*1/5/2012*	*7/30/2012*
								Duplicate		*Duplicate*					
Parameter	*Units*	*ODH Indoor Air Screening Levels (Residential)* *a*	*ODH Indoor Air Action Levels (Residential)* *b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	-	-	-	0.030 U	0.037 UJ	-	-	0.030 U	0.030 U	-	-	-
1,1,2,2-Tetrachloroethane	ppb	NC	NC	-	-	-	0.061 U	0.076 UJ	-	-	0.061 U	0.061 U	-	-	-
1,1,2-Trichloroethane	ppb	NC	NC	-	-	-	0.054 U	0.067 UJ	-	-	0.054 U	0.054 U	-	-	-
1,1-Dichloroethane	ppb	3.7	37	-	-	-	0.026 U	0.032 UJ	-	-	0.026 U	0.026 U	-	-	-
1,1-Dichloroethene	ppb	NC	NC	-	-	-	0.032 U	0.040 UJ	-	-	0.032 U	0.032 U	-	-	-
1,2,4-Trichlorobenzene	ppb	NC	NC	-	-	-	0.098 UJ	0.12 UJ	-	-	0.098 U	0.098 UJ	-	-	-
1,2,4-Trimethylbenzene	ppb	NC	NC	-	-	-	0.12 J	0.17 J	-	-	0.063 U	0.12 J	-	-	-
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	-	-	-	0.044 U	0.055 UJ	-	-	0.044 U	0.044 U	-	-	-
1,2-Dichlorobenzene	ppb	NC	NC	-	-	-	0.070 U	0.087 UJ	-	-	0.070 U	0.070 U	-	-	-
1,2-Dichloroethane	ppb	NC	NC	-	-	-	0.047 U	0.058 UJ	-	-	0.047 U	0.047 U	-	-	-
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	-	-	-	0.052 U	0.064 UJ	-	-	0.052 U	0.052 U	-	-	-
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	-	-	-	0.032 U	0.040 UJ	-	-	0.032 U	0.032 U	-	-	-
1,3,5-Trimethylbenzene	ppb	NC	NC	-	-	-	0.065 U	0.081 UJ	-	-	0.065 U	0.065 U	-	-	-
1,3-Butadiene	ppb	NC	NC	-	-	-	0.13 J	0.079 UJ	-	-	0.064 U	0.064 U	-	-	-
1,3-Dichlorobenzene	ppb	NC	NC	-	-	-	0.065 U	0.081 UJ	-	-	0.065 U	0.065 U	-	-	-
1,4-Dichlorobenzene	ppb	NC	NC	-	-	-	0.064 U	0.079 UJ	-	-	0.064 U	0.064 U	-	-	-
1,4-Dioxane	ppb	NC	NC	-	-	-	0.080 U	0.099 UJ	-	-	0.080 U	0.080 U	-	-	-
2,2,4-Trimethylpentane	ppb	NC	NC	-	-	-	0.065 J	0.091 J	-	-	0.11 J	0.077 J	-	-	-
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	-	-	-	1.1	1.0 J	-	-	0.24 J	0.68 J	-	-	-
2-Chlorotoluene	ppb	NC	NC	-	-	-	0.063 U	0.078 UJ	-	-	0.063 U	0.063 U	-	-	-
2-Hexanone	ppb	NC	NC	-	-	-	0.072 J	0.072 UJ	-	-	0.058 U	0.058 UJ	-	-	-
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	-	-	-	0.064 U	0.079 UJ	-	-	0.064 U	0.064 U	-	-	-
4-Ethyl toluene	ppb	NC	NC	-	-	-	0.066 U	0.082 UJ	-	-	0.066 U	0.066 U	-	-	-
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	-	-	-	0.093 J	0.056 UJ	-	-	0.045 U	0.045 U	-	-	-
Acetaldehyde	ppb	2.5	NC	-	-	-	-	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	-	-	-	9.7 J	15 J	-	-	2.8 J	5.4 J	-	-	-
Allyl chloride	ppb	NC	NC	-	-	-	0.048 U	0.060 UJ	-	-	0.048 U	0.048 U	-	-	-
Benzene	ppb	0.4	4	-	-	-	0.50[a]	0.49 J[a]	-	-	0.29	0.19 J	-	-	-
Benzyl chloride	ppb	NC	NC	-	-	-	0.078 U	0.097 UJ	-	-	0.078 U	0.078 U	-	-	-
Bromodichloromethane	ppb	NC	NC	-	-	-	0.044 U	0.055 UJ	-	-	0.044 U	0.044 U	-	-	-
Bromoform	ppb	NC	NC	-	-	-	0.048 U	0.060 UJ	-	-	0.048 U	0.048 U	-	-	-
Bromomethane (Methyl bromide)	ppb	NC	NC	-	-	-	0.032 U	0.040 UJ	-	-	0.032 U	0.032 U	-	-	-
Butane	ppb	NC	NC	-	-	-	7.0	7.6 J	-	-	5.5	1.1	-	-	-
Carbon disulfide	ppb	NC	NC	-	-	-	0.057 J	0.11 J	-	-	0.031 U	0.049 J	-	-	-
Carbon tetrachloride	ppb	NC	NC	-	-	-	0.10 J	0.14 J	-	-	0.060 J	0.094 J	-	-	-
Chlorobenzene	ppb	NC	NC	-	-	-	0.049 U	0.061 UJ	-	-	0.049 U	0.049 U	-	-	-
Chlorodifluoromethane	ppb	NC	NC	-	-	-	0.45 J	1.3 J	-	-	0.36	0.44	-	-	-
Chloroethane	ppb	NC	NC	-	-	-	0.035 U	0.043 UJ	-	-	0.035 U	0.035 U	-	-	-
Chloroform (Trichloromethane)	ppb	20	200	-	-	-	0.085 J	0.16 J	-	-	0.038 U	0.062 J	-	-	-
Chloromethane (Methyl chloride)	ppb	NC	NC	-	-	-	0.93	1.3 J	-	-	0.62	0.77	-	-	-
cis-1,2-Dichloroethene	ppb	8.8	88	-	-	-	0.060 U	0.074 UJ	-	-	0.060 U	0.060 U	-	-	-
cis-1,3-Dichloropropene	ppb	NC	NC	-	-	-	0.074 U	0.092 UJ	-	-	0.074 U	0.074 U	-	-	-
Cyclohexane	ppb	NC	NC	-	-	-	0.074 J	0.12 J	-	-	0.12 J	0.040 U	-	-	-
Cymene (p-Isopropyltoluene)	ppb	NC	NC	-	-	-	0.057 U	0.071 UJ	-	-	0.057 U	0.057 U	-	-	-
Dibromochloromethane	ppb	NC	NC	-	-	-	0.042 U	0.052 UJ	-	-	0.042 U	0.042 U	-	-	-
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	-	-	-	0.63	0.87 J	-	-	0.47	0.64	-	-	-
Ethylbenzene	ppb	60	600	-	-	-	0.11 J	0.18 J	-	-	0.068 U	0.11 J	-	-	-
Hexachlorobutadiene	ppb	NC	NC	-	-	-	0.078 UJ	0.097 UJ	-	-	0.078 U	0.078 UJ	-	-	-
Hexane	ppb	NC	NC	-	-	-	0.34 J	7.2 J	-	-	0.37 J	0.26 J	-	-	-
Isopropyl alcohol	ppb	NC	NC	-	-	-	0.97 J	1.2 J	-	-	7.4	0.57 J	-	-	-
Isopropyl benzene	ppb	NC	NC	-	-	-	0.060 U	0.074 UJ	-	-	0.060 U	0.060 U	-	-	-
m&p-Xylenes	ppb	50	500	-	-	-	0.36	0.55 J	-	-	0.14 J	0.36	-	-	-
Methyl methacrylate	ppb	NC	NC	-	-	-	0.079 U	0.098 UJ	-	-	0.079 U	0.079 U	-	-	-
Methyl tert butyl ether (MTBE)	ppb	NC	NC	-	-	-	0.17 U	0.21 UJ	-	-	0.17 U	0.17 U	-	-	-
Methylene chloride	ppb	NC	NC	-	-	-	0.045 UJ	13 J	-	-	0.28 J	0.045 U	-	-	-
Naphthalene	ppb	0.7	NC	-	-	-	0.090 U	0.11 UJ	-	-	0.090 U	0.090 U	-	-	-
N-Butylbenzene	ppb	NC	NC	-	-	-	0.046 U	0.057 UJ	-	-	0.046 U	0.046 U	-	-	-
N-Decane	ppb	NC	NC	-	-	-	0.79 J	0.55 J	-	-	-	0.29 J	-	-	-
N-Dodecane	ppb	NC	NC	-	-	-	0.078 U	0.097 UJ	-	-	-	0.099 J	-	-	-
N-Heptane	ppb	NC	NC	-	-	-	0.16 J	0.16 J	-	-	0.16 J	0.14 J	-	-	-

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	-	-	-	0.42 J	0.40 J	-	-	-	0.14 J	-	-	-
N-Propylbenzene	ppb		NC		NC	-	-	-	0.056 U	0.069 UJ	-	-	0.056 U	0.056 U	-	-	-
N-Undecane	ppb		NC		NC	-	-	-	0.062 UJ	0.11 J	-	-	-	0.079 J	-	-	-
Octane	ppb		NC		NC	-	-	-	0.069 J	0.069 J	-	-	-	0.036 U	-	-	-
o-Xylene	ppb	50		500		-	-	-	0.16 J	0.20 J	-	-	0.061 U	0.13 J	-	-	-
Pentane	ppb		NC		NC	-	-	-	1.0	1.6 J	-	-	-	0.82 J	-	-	-
Styrene	ppb		NC		NC	-	-	-	0.079 J	0.089 J	-	-	0.058 U	0.058 U	-	-	-
tert-Butyl alcohol	ppb		NC		NC	-	-	-	0.23 J	0.21 J	-	-	0.044 J	0.077 J	-	-	-
tert-Butylbenzene	ppb		NC		NC	-	-	-	0.066 U	0.082 UJ	-	-	0.066 U	0.066 U	-	-	-
Tetrachloroethene	ppb	6		60		-	-	-	0.040 U	0.050 UJ	-	-	0.048 J	0.040 U	-	-	-
Tetrahydrofuran	ppb		NC		NC	-	-	-	0.063 U	0.19 J	-	-	0.063 U	0.063 U	-	-	-
Toluene	ppb		NC		NC	-	-	-	0.89 J	2.7 J	-	-	0.51	0.65	-	-	-
trans-1,2-Dichloroethene	ppb		NC		NC	-	-	-	0.050 U	0.062 UJ	-	-	0.050 U	0.050 U	-	-	-
trans-1,3-Dichloropropene	ppb		NC		NC	-	-	-	0.048 U	0.060 UJ	-	-	0.048 U	0.048 U	-	-	-
Trichloroethene	ppb	0.4		4		-	-	-	0.036 U	0.045 UJ	-	-	0.036 U	0.036 U	-	-	-
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	-	-	-	0.39 J	2.2 J	-	-	0.23	0.30	-	-	-
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	-	-	-	0.083 J	0.11 J	-	-	0.056 J	0.077 J	-	-	-
Vinyl bromide (Bromoethene)	ppb		NC		NC	-	-	-	0.035 U	0.043 UJ	-	-	0.035 U	0.035 U	-	-	-
Vinyl chloride	ppb	0.4		4		-	-	-	0.071 U	0.088 UJ	-	-	0.071 UJ	0.071 U	-	-	-
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	-	-	-
Gases																	
Methane	%	0.05		0.05		-	-	-	0.21 U[ab]	0.20 U[ab]	-	-	-	0.21 U[ab]	-	-	-
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		0.0	0.0	0.0	-	-	-	-	-	-	-	0.0 / 0.0	-
Methane, field (filtered)	%	0.05		0.05		-	-	-	0	0	0	0	-	0	0	-	0 / 0

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 3262, Bldg 33*	*Parcel 3262, Bldg 33*	*Parcel 3262, Bldg 33*	*Parcel 3262, Bldg 33, IA_A*	*Parcel 3262, Outdoor Air*	*Parcel 3262, Outdoor Air*	*Parcels 3262 & 3263, OA*	*Parcel 3263, Bldg 34, IA_A*	*Parcel 4610, Bldg 18*	*Parcel 4610, Bldg 18*	*Parcel 4610, Bldg 18*	*Parcel 4610, Bldg 18*
Sample Location:				*2373 East River Road*	*2373 East River Road*	*2373 East River Road*	*2373 East River Road*	*2373 East River Road*	*2373 East River Road*		*2391 East River Road*	*2225A East River Road*	*2225A East River Road*	*2225A East River Road*	*2225A East River Road*
Owner / Tenant:				*Jim Worley*	*Jim Worley*	*Jim Worley*	*Jim Worley*	*Jim Worley*	*Jim Worley*	*Jim Worley*	*Jim Worley*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*
Sample ID:				*CS-38443-080112-GL-027*	*CS-38443-080112-GL-027*	*CS-38443-091212-GL-020*	*IA-38443-091212-GL-019*	*OA-38443-080112-GL-028*	*OA-38443-080112-GL-028*	*OA-38443-091212-GL-021*	*IA-38443-091212-GL-017*	*CS-38443-011212-JC-076*	*CS-38443-011212-JC-075*	*CS-38443-011212-JC-076*	*OA-38443-011212-JC-077*
Sample Date:				*8/1/2012*	*8/2/2012*	*9/12/2012*	*9/12/2012*	*8/1/2012*	*8/2/2012*	*9/12/2012*	*9/12/2012*	*1/12/2012*	*1/13/2012*	*1/13/2012*	*1/13/2012*
Parameter	*Units*	*ODH Indoor Air Screening Levels (Residential)* *a*	*ODH Indoor Air Action Levels (Residential)* *b*												
Volatile Organic Compounds															
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	-	0.030 U	0.060 U	0.030 U	-	0.030 U	0.030 U	0.0072 J	0.035 U	-	0.035 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	-	0.061 U	0.12 U	0.061 U	-	0.061 U	0.061 U	-	0.040 U	-	0.040 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	-	0.054 U	0.11 U	0.054 U	-	0.054 U	0.054 U	0.0050 U	0.019 U	-	0.019 U
1,1-Dichloroethane	ppb	3.7	37	0.026 U	-	0.026 U	0.052 U	0.026 U	-	0.026 U	0.026 U	0.0025 U	0.035 U	-	0.035 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	-	0.032 U	0.064 U	0.032 U	-	0.032 U	0.032 U	0.0050 U	0.030 U	-	0.030 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	-	0.098 UJ	0.20 U	0.098 UJ	-	0.098 U	0.098 U	-	0.050 U	-	0.050 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.26	-	0.20	0.15 J	0.38	-	0.20	1.4	-	0.052 U	-	0.052 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	-	0.044 U	0.088 U	0.044 U	-	0.044 U	0.044 U	0.0040 U	0.018 U	-	0.018 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	-	0.070 U	0.14 U	0.070 U	-	0.070 U	0.070 U	-	0.048 U	-	0.048 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	-	0.047 U	0.094 U	0.047 U	-	0.047 U	0.13 J	0.019	0.031 U	-	0.031 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-	-	0.014 U	-	0.014 U
1,2-Dichloropropane	ppb	NC	NC	0.052 U	-	0.052 U	0.10 U	0.052 U	-	0.052 U	0.052 U	-	0.014 U	-	0.014 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	-	0.032 U	0.064 U	0.032 U	-	0.032 U	0.032 U	-	0.032 U	-	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	-	0.065 U	0.13 U	0.065 U	-	0.065 U	0.58	-	0.051 U	-	0.051 U
1,3-Butadiene	ppb	NC	NC	0.064 U	-	0.064 U	0.13 U	0.064 U	-	0.064 U	0.064 U	-	0.010 U	-	0.010 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	-	0.065 U	0.13 U	0.065 U	-	0.065 U	0.065 U	-	0.044 U	-	0.044 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	-	0.064 U	0.13 UJ	0.064 U	-	0.064 UJ	0.34	-	0.044 U	-	0.044 U
1,4-Dioxane	ppb	NC	NC	0.080 U	-	0.080 U	0.16 UJ	0.080 U	-	0.080 UJ	0.080 U	-	0.088 U	-	0.088 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.28 J	-	0.72	0.67 J	0.36 J	-	0.69	0.32 J	-	0.036 U	-	0.036 U
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	3.3	-	0.78 J	0.54 J	0.80 J	-	0.52 J	5.8	-	0.34 J	-	0.12 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	-	0.063 U	0.13 U	0.063 U	-	0.063 U	0.063 U	-	0.047 U	-	0.047 U
2-Hexanone	ppb	NC	NC	0.060 J	-	0.058 U	0.12 U	0.064 J	-	0.058 U	0.060 J	-	0.039 U	-	0.039 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	-	0.064 U	0.13 U	0.064 U	-	0.064 U	0.064 U	-	0.047 U	-	0.047 U
4-Ethyl toluene	ppb	NC	NC	0.26 J	-	0.074 J	0.13 U	0.14 J	-	0.091 J	0.69	-	0.046 U	-	0.046 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.11 J	-	0.072 J	0.12 J	0.057 J	-	0.10 J	0.12 J	-	0.026 U	-	0.026 U
Acetaldehyde	ppb	2.5	NC	-	-	31 J*	20 UJ*	-	-	20 J*	26 J*	-	-	-	-
Acetone	ppb	NC	NC	17 J	-	15	9.8 J	6.4 J	-	5.2 J	8.6 J	-	1.3 J	-	0.89 J
Allyl chloride	ppb	NC	NC	0.048 U	-	0.048 U	0.096 U	0.048 U	-	0.048 U	0.048 U	-	0.019 U	-	0.019 U
Benzene	ppb	0.4	4	0.54*	-	0.89*	0.86*	0.36	-	0.64*	0.39	0.17	0.16 J	-	0.15 J
Benzyl chloride	ppb	NC	NC	0.078 U	-	0.078 U	0.16 U	0.078 U	-	0.078 U	0.078 U	-	0.046 UJ	-	0.046 UJ
Bromodichloromethane	ppb	NC	NC	0.046 J	-	0.044 U	0.088 U	0.044 U	-	0.044 U	0.044 U	-	0.028 U	-	0.028 U
Bromoform	ppb	NC	NC	0.048 U	-	0.048 U	0.096 UJ	0.048 U	-	0.048 UJ	0.048 U	-	0.019 U	-	0.019 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	-	0.032 U	0.064 U	0.032 U	-	0.032 U	0.032 U	-	0.012 U	-	0.012 U
Butane	ppb	NC	NC	30 J	-	31	39	1.4 J	-	2.7	3.0	-	0.96	-	0.93
Carbon disulfide	ppb	NC	NC	0.074 J	-	0.077 J	0.092 J	0.12 J	-	0.84	0.14 J	-	0.066 U	-	0.066 U
Carbon tetrachloride	ppb	NC	NC	0.11 J	-	0.088 J	0.081 J	0.10 J	-	0.083 J	0.090 J	-	0.068 J	-	0.068 J
Chlorobenzene	ppb	NC	NC	0.049 U	-	0.049 U	0.098 U	0.049 U	-	0.049 U	0.049 U	-	0.020 U	-	0.020 U
Chlorodifluoromethane	ppb	NC	NC	1.7	-	1.1	1.4	0.50	-	0.43	4.0	-	0.35 J	-	0.034 U
Chloroethane	ppb	NC	NC	0.035 U	-	0.035 U	0.070 U	0.035 U	-	0.14 J	0.035 U	-	0.016 U	-	0.016 U
Chloroform (Trichloromethane)	ppb	20	200	0.18 J	-	0.22	0.23 J	0.060 J	-	0.14 J	0.24	0.017	0.031 U	-	0.031 U
Chloromethane (Methyl chloride)	ppb	NC	NC	1.1	-	0.91	0.88 J	1.1	-	1.0	0.50	-	0.50	-	0.56
cis-1,2-Dichloroethene	ppb	8.8	88	0.060 U	-	0.060 U	0.12 U	0.060 U	-	0.060 U	0.060 U	0.0025 U	0.014 U	-	0.014 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	-	0.074 U	0.15 U	0.074 U	-	0.074 U	0.074 U	-	0.016 U	-	0.016 U
Cyclohexane	ppb	NC	NC	0.67	-	1.1	1.4	0.12 J	-	0.38 J	0.23 J	-	0.039 U	-	0.039 U
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.090 J	-	0.057 U	0.11 U	0.057 U	-	0.057 U	0.091 J	-	0.048 U	-	0.048 U
Dibromochloromethane	ppb	NC	NC	0.042 U	-	0.042 U	0.084 U	0.042 U	-	0.042 U	0.042 U	-	0.021 U	-	0.021 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.76 J	-	0.56	0.54	0.64 J	-	0.52	0.51	-	0.49 J	-	0.52
Ethylbenzene	ppb	60	600	0.35	-	0.38	0.27 J	0.45	-	0.26	0.17 J	-	0.035 J	-	0.022 U
Hexachlorobutadiene	ppb	NC	NC	0.078 U	-	0.078 UJ	0.16 U	0.078 U	-	0.078 U	0.078 U	-	0.065 U	-	0.065 U
Hexane	ppb	NC	NC	1.4	-	2.9	3.7	0.66	-	1.5	0.78	-	2.1	-	0.11 J
Isopropyl alcohol	ppb	NC	NC	5.2	-	2.6	4.4	0.79 J	-	0.30 J	0.85 J	-	0.34 J	-	0.037 U
Isopropyl benzene	ppb	NC	NC	0.060 U	-	0.060 U	0.12 U	0.060 U	-	0.060 U	0.15 J	-	0.031 U	-	0.031 U
m&p-Xylenes	ppb	50	500	1.2	-	1.3	0.90	1.6	-	0.86	0.62	-	0.070 J	-	0.048 U
Methyl methacrylate	ppb	NC	NC	0.079 U	-	0.079 U	0.16 U	0.079 U	-	0.079 U	0.079 U	-	0.013 U	-	0.013 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	-	0.17 U	0.34 U	0.17 U	-	0.17 U	0.17 U	-	0.016 U	-	0.016 U
Methylene chloride	ppb	NC	NC	0.045 U	-	0.52 U	0.86 J	0.045 U	-	0.41 J	3.5	0.10 U	0.13 J	-	0.12 J
Naphthalene	ppb	0.7	NC	0.095 J	-	0.090 UJ	0.18 U	0.090 UJ	-	0.090 U	0.090 U	0.0070 U	0.086 U	-	0.086 U
N-Butylbenzene	ppb	NC	NC	0.046 U	-	0.046 U	0.092 U	0.046 U	-	0.046 U	0.046 U	-	0.055 U	-	0.055 U
N-Decane	ppb	NC	NC	0.20 J	-	0.056 UJ	0.11 U	0.16 J	-	0.075 J	0.43 J	-	-	-	-
N-Dodecane	ppb	NC	NC	0.078 J	-	0.078 U	0.16 U	0.097 J	-	0.078 U	0.078 U	-	-	-	-
N-Heptane	ppb	NC	NC	0.60	-	1.2	1.3	0.28 J	-	0.67	0.30 J	-	0.10 J	-	0.052 J

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	0.089 J	-	0.073 J	0.086 U	0.086 J	-	0.053 J	0.19 J	-	-	-	-
N-Propylbenzene	ppb		NC		NC	0.056 U	-	0.056 U	0.11 U	0.082 J	-	0.056 U	0.31 J	-	0.050 U	-	0.050 U
N-Undecane	ppb		NC		NC	0.093 J	-	0.071 J	0.12 U	0.096 J	-	0.091 J	0.16 J	-	-	-	-
Octane	ppb		NC		NC	0.21 J	-	0.21 J	0.19 J	0.17 J	-	0.098 J	0.053 J	-	-	-	-
o-Xylene	ppb	50		500		0.43	-	0.42	0.32 J	0.60	-	0.29	0.41	-	0.023 J	-	0.022 U
Pentane	ppb		NC		NC	4.7	-	11	10	1.2	-	2.6	1.6	-	-	-	-
Styrene	ppb		NC		NC	0.78	-	0.43	0.50	0.075 J	-	0.058 U	0.41	-	0.030 U	-	0.030 U
tert-Butyl alcohol	ppb		NC		NC	0.18 J	-	0.038 UJ	0.081 J	0.19 J	-	0.038 U	0.15 J	-	0.071 U	-	0.071 U
tert-Butylbenzene	ppb		NC		NC	0.066 U	-	0.066 U	0.13 U	0.066 U	-	0.066 U	0.066 U	-	0.047 U	-	0.047 U
Tetrachloroethene	ppb	6		60		0.48	-	0.48	0.78	0.040 U	-	0.080 J	0.15 J	0.024	0.011 U	-	0.011 U
Tetrahydrofuran	ppb		NC		NC	0.063 U	-	0.065 J	0.13 U	0.063 U	-	0.063 U	8.2	-	0.018 U	-	0.018 U
Toluene	ppb		NC		NC	3.7	-	3.6	2.7	2.4	-	2.1	3.5	-	0.18 J	-	0.12 J
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	-	0.050 U	0.10 U	0.050 U	-	0.050 U	0.050 U	0.0050 U	0.032 U	-	0.032 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	-	0.048 U	0.096 U	0.048 U	-	0.048 U	0.048 U	-	0.020 U	-	0.020 U
Trichloroethene	ppb	0.4		4		0.036 U	-	0.036 U	0.072 U	0.036 U	-	0.036 U	0.036 U	0.022	0.030 U	-	0.030 U
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.37	-	0.36	0.36 J	0.32	-	0.33	0.31	-	0.20	-	0.22
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.099 J	-	0.077 J	0.078 J	0.087 J	-	0.077 J	0.070 J	-	0.070 J	-	0.072 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	-	0.035 U	0.070 U	0.035 U	-	0.035 U	0.035 U	-	0.019 U	-	0.019 U
Vinyl chloride	ppb	0.4		4		0.071 U	-	0.071 U	0.14 U	0.071 U	-	0.071 U	0.071 U	0.0027 UJ	0.029 U	-	0.029 U
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-	-	0.093 J	-	0.022 U
Gases																	
Methane	%	0.05		0.05		0.20 U[ab]	-	0.20 U[ab]	0.18 U[ab]	0.20 U[ab]	-	0.21 U[ab]	0.19 U[ab]	-	0.060 U[ab]	-	-
Field Parameter																	
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-	0.0	0.0 / 0.0	0.0	0.0 / 0.0
Methane, field (filtered)	%	0.05		0.05		0	0	-	-	0	0	-	-	-	-	-	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

EPA-R5-2016-005983 Outlook0000971

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:				*Parcel 4610, Bldg 18*	*Parcel 4610, Bldg 18*	*Parcel 4610, Bldg 18*	*Parcel 4610, Bldg 18*	*Parcel 4610, Bldg 18, IA*	*Parcel 4610, Bldg 18, Outdoor Air*	*Parcel 4610, Bldg 18, Outdoor Air*	*Parcel 4610, Bldg 18, Outdoor Air*
Sample Location:				*2225A East River Road*	*2225A East River Road*	*2225A East River Road*	*2225A East River Road*	*2225A East River Road*	*2225A East River Road*	*2225A East River Road*	*2225A East River Road*
Owner / Tenant:				*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*	*Ron Barnett Construction*
Sample ID:				*CS-38443-073112-GL-015*	*CS-38443-073112-GL-015*	*CS-38443-010913-GL-008*	*CS-38443-010913-GL-009*	*IA-38443-010913-GL-006*	*OA-38443-073112-GL-016*	*OA-38443-073112-GL-016*	*OA-38443-010913-GL-007*
Sample Date:				*7/31/2012*	*8/1/2012*	*1/9/2013*	*1/9/2013*	*1/9/2013*	*7/31/2012*	*8/1/2012*	*1/9/2013*
							Duplicate				
Parameter	*Units*	*ODH Indoor Air Screening Levels (Residential)* *a*	*ODH Indoor Air Action Levels (Residential)* *b*								
Volatile Organic Compounds											
1,1,1-Trichloroethane	ppb	NC	NC	0.030 U	-	0.030 U	0.030 U	0.030 U	0.030 U	-	0.030 U
1,1,2,2-Tetrachloroethane	ppb	NC	NC	0.061 U	-	0.061 U	0.061 U	0.061 U	0.061 U	-	0.061 U
1,1,2-Trichloroethane	ppb	NC	NC	0.054 U	-	0.054 U	0.054 U	0.054 U	0.054 U	-	0.054 U
1,1-Dichloroethane	ppb	3.7	37	0.026 U	-	0.026 U	0.026 U	0.026 U	0.026 U	-	0.026 U
1,1-Dichloroethene	ppb	NC	NC	0.032 U	-	0.032 U	0.032 U	0.032 U	0.032 U	-	0.032 U
1,2,4-Trichlorobenzene	ppb	NC	NC	0.098 UJ	-	0.098 U	0.098 U	0.098 U	0.098 UJ	-	0.098 U
1,2,4-Trimethylbenzene	ppb	NC	NC	0.12 J	-	0.13 J	0.063 U	0.063 U	0.063 U	-	0.063 U
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC	0.044 U	-	0.044 U	0.044 U	0.044 U	0.044 U	-	0.044 U
1,2-Dichlorobenzene	ppb	NC	NC	0.070 U	-	0.070 U	0.070 U	0.070 U	0.070 U	-	0.070 U
1,2-Dichloroethane	ppb	NC	NC	0.047 U	-	0.047 U	0.047 U	0.047 U	0.047 U	-	0.047 U
1,2-Dichloroethene (total)	ppb	NC	NC	-	-	-	-	-	-	-	-
1,2-Dichloropropane	ppb	NC	NC	0.052 U	-	0.052 U	0.052 U	0.052 U	0.052 U	-	0.052 U
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC	0.032 U	-	0.032 U	0.032 U	0.032 U	0.032 U	-	0.032 U
1,3,5-Trimethylbenzene	ppb	NC	NC	0.065 U	-	0.065 U	0.065 U	0.065 U	0.065 U	-	0.065 U
1,3-Butadiene	ppb	NC	NC	0.064 U	-	0.064 U	0.064 U	0.064 U	0.064 U	-	0.064 U
1,3-Dichlorobenzene	ppb	NC	NC	0.065 U	-	0.065 U	0.065 U	0.065 U	0.065 U	-	0.065 U
1,4-Dichlorobenzene	ppb	NC	NC	0.064 U	-	0.064 U	0.064 U	0.064 U	0.064 U	-	0.064 U
1,4-Dioxane	ppb	NC	NC	0.080 U	-	0.080 U	0.080 U	0.080 U	0.080 U	-	0.080 U
2,2,4-Trimethylpentane	ppb	NC	NC	0.096 J	-	0.18 J	0.14 J	0.14 J	5.1	-	0.12 J
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC	1.2	-	0.36 J	0.36 J	7.9	0.93 J	-	0.26 J
2-Chlorotoluene	ppb	NC	NC	0.063 U	-	0.063 U	0.063 U	0.063 U	0.063 U	-	0.063 U
2-Hexanone	ppb	NC	NC	0.062 J	-	0.058 U	0.058 U	0.058 U	0.058 UJ	-	0.058 U
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC	0.064 U	-	0.064 U	0.064 U	0.064 U	0.064 U	-	0.064 U
4-Ethyl toluene	ppb	NC	NC	0.066 U	-	0.066 U	0.066 U	0.066 U	0.066 U	-	0.066 U
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC	0.13 J	-	0.26 J	0.30 J	0.46 J	0.47 J	-	0.71
Acetaldehyde	ppb	2.5	NC	-	-	-	-	-	-	-	-
Acetone	ppb	NC	NC	10 J	-	3.5 J	3.5 J	14	8.4 J	-	3.0 J
Allyl chloride	ppb	NC	NC	0.048 U	-	0.048 U	0.048 U	0.048 U	0.048 U	-	0.048 U
Benzene	ppb	0.4	4	0.46[a]	-	0.36	0.32	0.37	0.24	-	0.30
Benzyl chloride	ppb	NC	NC	0.078 U	-	0.078 U	0.078 U	0.078 U	0.078 U	-	0.078 U
Bromodichloromethane	ppb	NC	NC	0.044 U	-	0.044 U	0.044 U	0.044 U	0.044 U	-	0.044 U
Bromoform	ppb	NC	NC	0.048 U	-	0.048 U	0.048 U	0.048 U	0.048 U	-	0.048 U
Bromomethane (Methyl bromide)	ppb	NC	NC	0.032 U	-	0.032 U	0.032 U	0.032 U	0.032 U	-	0.032 U
Butane	ppb	NC	NC	11	-	4.1	4.3	4.6	1.5	-	3.7
Carbon disulfide	ppb	NC	NC	0.061 J	-	0.034 J	0.042 J	0.031 U	0.064 J	-	0.039 J
Carbon tetrachloride	ppb	NC	NC	0.096 J	-	0.065 J	0.053 J	0.065 J	0.11 J	-	0.059 J
Chlorobenzene	ppb	NC	NC	0.049 U	-	0.049 U	0.049 U	0.049 U	0.049 U	-	0.049 U
Chlorodifluoromethane	ppb	NC	NC	0.73	-	0.39	0.39	0.35	0.47	-	0.38
Chloroethane	ppb	NC	NC	0.035 U	-	0.035 U	0.035 U	0.035 U	0.035 U	-	0.035 U
Chloroform (Trichloromethane)	ppb	20	200	0.072 J	-	0.038 U	0.038 U	0.038 U	0.076 J	-	0.038 U
Chloromethane (Methyl chloride)	ppb	NC	NC	0.16 U	-	0.64	0.66	0.69	0.91	-	0.58
cis-1,2-Dichloroethene	ppb	8.8	88	0.060 U	-	0.060 U	0.060 U	0.060 U	0.060 U	-	0.060 U
cis-1,3-Dichloropropene	ppb	NC	NC	0.074 U	-	0.074 U	0.074 U	0.074 U	0.074 U	-	0.074 U
Cyclohexane	ppb	NC	NC	0.12 J	-	0.14 J	0.14 J	0.24 J	0.39 J	-	0.11 J
Cymene (p-Isopropyltoluene)	ppb	NC	NC	0.057 U	-	0.057 U	0.057 U	0.057 U	0.057 U	-	0.057 U
Dibromochloromethane	ppb	NC	NC	0.042 U	-	0.042 U	0.042 U	0.042 U	0.042 U	-	0.042 U
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC	0.59	-	0.52	0.56	0.55	0.71	-	0.48
Ethylbenzene	ppb	60	600	0.11 J	-	0.14 J	0.068 U	0.24	0.54	-	0.068 U
Hexachlorobutadiene	ppb	NC	NC	0.078 UJ	-	0.078 U	0.078 U	0.078 U	0.078 UJ	-	0.078 U
Hexane	ppb	NC	NC	0.35 J	-	0.43 J	0.35 J	0.48 J	1.2	-	0.34 J
Isopropyl alcohol	ppb	NC	NC	11	-	1.2 J	1.2 J	1.5 J	0.87 J	-	0.57 J
Isopropyl benzene	ppb	NC	NC	0.060 U	-	0.060 U	0.060 U	0.060 U	0.060 U	-	0.060 U
m&p-Xylenes	ppb	50	500	0.38	-	0.50 J	0.12 UJ	0.73	0.90	-	0.21
Methyl methacrylate	ppb	NC	NC	0.079 U	-	0.079 U	0.079 U	0.079 U	0.25 J	-	0.079 U
Methyl tert butyl ether (MTBE)	ppb	NC	NC	0.17 U	-	0.17 U	0.17 U	0.17 U	0.17 U	-	0.17 U
Methylene chloride	ppb	NC	NC	0.045 U	-	0.49 J	0.24 J	0.40 J	0.045 U	-	0.44 J
Naphthalene	ppb	0.7	NC	0.090 U	-	0.090 U	0.090 U	0.090 U	0.090 U	-	0.090 U
N-Butylbenzene	ppb	NC	NC	0.046 U	-	0.046 U	0.046 U	0.046 U	0.046 U	-	0.046 U
N-Decane	ppb	NC	NC	0.33 J	-	-	-	-	0.056 U	-	-
N-Dodecane	ppb	NC	NC	0.078 U	-	-	-	-	0.078 U	-	-
N-Heptane	ppb	NC	NC	0.17 J	-	0.25 J	0.12 J	1.9	2.6	-	0.11 J

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC	0.24 J	-	-	-	-	0.043 U	-	-
N-Propylbenzene	ppb		NC		NC	0.056 U	-	0.056 U	0.056 U	0.056 U	0.056 U	-	0.056 U
N-Undecane	ppb		NC		NC	0.090 J	-	-	-	-	0.062 UJ	-	-
Octane	ppb		NC		NC	0.060 J	-	-	-	-	0.35 J	-	-
o-Xylene	ppb	50		500		0.15 J	-	0.19 J	0.061 UJ	0.20	0.20	-	0.076 J
Pentane	ppb		NC		NC	1.6	-	-	-	-	1.0	-	-
Styrene	ppb		NC		NC	0.077 J	-	0.058 U	0.058 U	0.089 J	0.058 U	-	0.058 U
tert-Butyl alcohol	ppb		NC		NC	0.16 J	-	0.061 J	0.052 J	0.13 J	0.11 J	-	0.053 J
tert-Butylbenzene	ppb		NC		NC	0.066 U	-	0.066 U	0.066 U	0.066 U	0.066 U	-	0.066 U
Tetrachloroethene	ppb	6		60		0.053 J	-	0.67 J	0.043 J	0.055 J	0.074 J	-	0.040 U
Tetrahydrofuran	ppb		NC		NC	0.063 U	-	0.087 J	0.063 U	0.063 U	0.063 U	-	0.063 U
Toluene	ppb		NC		NC	1.4	-	1.1 J	0.57 J	5.7	6.5	-	0.56
trans-1,2-Dichloroethene	ppb		NC		NC	0.050 U	-	0.050 U	0.050 U	0.050 U	0.050 U	-	0.050 U
trans-1,3-Dichloropropene	ppb		NC		NC	0.048 U	-	0.048 U	0.048 U	0.048 U	0.048 U	-	0.048 U
Trichloroethene	ppb	0.4		4		0.036 U	-	0.036 U	0.036 U	0.036 U	0.036 U	-	0.036 U
Trichlorofluoromethane (CFC-11)	ppb		NC		NC	0.35	-	0.26	0.26	0.26	0.34	-	0.24
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC	0.085 J	-	0.063 J	0.060 J	0.061 J	0.079 J	-	0.063 J
Vinyl bromide (Bromoethene)	ppb		NC		NC	0.035 U	-	0.035 U	0.035 U	0.035 U	0.035 U	-	0.035 U
Vinyl chloride	ppb	0.4		4		0.071 U	-	0.071 UJ	0.071 UJ	0.071 UJ	0.071 U	-	0.071 UJ
Xylenes (total)	ppb		NC		NC	-	-	-	-	-	-	-	-
Gases													
Methane	%	0.05		0.05		0.20 U[ab]	-	-	-	-	0.20 U[ab]	-	-
Field Parameter													
Methane, field (unfiltered)	%	0.05		0.05		-	-	-	-	-	-	-	-
Methane, field (filtered)	%	0.05		0.05		0	0	-	-	-	0	0	-

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***	***ODH Indoor Air Screening Levels (Residential)***	***ODH Indoor Air Action Levels (Residential)***
		a	***b***
Volatile Organic Compounds			
1,1,1-Trichloroethane	ppb	NC	NC
1,1,2,2-Tetrachloroethane	ppb	NC	NC
1,1,2-Trichloroethane	ppb	NC	NC
1,1-Dichloroethane	ppb	3.7	37
1,1-Dichloroethene	ppb	NC	NC
1,2,4-Trichlorobenzene	ppb	NC	NC
1,2,4-Trimethylbenzene	ppb	NC	NC
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC
1,2-Dichlorobenzene	ppb	NC	NC
1,2-Dichloroethane	ppb	NC	NC
1,2-Dichloroethene (total)	ppb	NC	NC
1,2-Dichloropropane	ppb	NC	NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC
1,3,5-Trimethylbenzene	ppb	NC	NC
1,3-Butadiene	ppb	NC	NC
1,3-Dichlorobenzene	ppb	NC	NC
1,4-Dichlorobenzene	ppb	NC	NC
1,4-Dioxane	ppb	NC	NC
2,2,4-Trimethylpentane	ppb	NC	NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC
2-Chlorotoluene	ppb	NC	NC
2-Hexanone	ppb	NC	NC
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC
4-Ethyl toluene	ppb	NC	NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC
Acetaldehyde	ppb	2.5	NC
Acetone	ppb	NC	NC
Allyl chloride	ppb	NC	NC
Benzene	ppb	0.4	4
Benzyl chloride	ppb	NC	NC
Bromodichloromethane	ppb	NC	NC
Bromoform	ppb	NC	NC
Bromomethane (Methyl bromide)	ppb	NC	NC
Butane	ppb	NC	NC
Carbon disulfide	ppb	NC	NC
Carbon tetrachloride	ppb	NC	NC
Chlorobenzene	ppb	NC	NC
Chlorodifluoromethane	ppb	NC	NC
Chloroethane	ppb	NC	NC
Chloroform (Trichloromethane)	ppb	20	200
Chloromethane (Methyl chloride)	ppb	NC	NC
cis-1,2-Dichloroethene	ppb	8.8	88
cis-1,3-Dichloropropene	ppb	NC	NC
Cyclohexane	ppb	NC	NC
Cymene (p-Isopropyltoluene)	ppb	NC	NC
Dibromochloromethane	ppb	NC	NC
Dichlorodifluoromethane (CFC-12)	ppb	NC	NC
Ethylbenzene	ppb	60	600
Hexachlorobutadiene	ppb	NC	NC
Hexane	ppb	NC	NC
Isopropyl alcohol	ppb	NC	NC
Isopropyl benzene	ppb	NC	NC
m&p-Xylenes	ppb	50	500
Methyl methacrylate	ppb	NC	NC
Methyl tert butyl ether (MTBE)	ppb	NC	NC
Methylene chloride	ppb	NC	NC
Naphthalene	ppb	0.7	NC
N-Butylbenzene	ppb	NC	NC
N-Decane	ppb	NC	NC
N-Dodecane	ppb	NC	NC
N-Heptane	ppb	NC	NC

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Nonane	ppb		NC		NC
N-Propylbenzene	ppb		NC		NC
N-Undecane	ppb		NC		NC
Octane	ppb		NC		NC
o-Xylene	ppb	50		500	
Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	6		60	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	0.4		4	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	0.4		4	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.05		0.05	
Field Parameter					
Methane, field (unfiltered)	%	0.05		0.05	
Methane, field (filtered)	%	0.05		0.05	

Notes:

J - The chemical was detected by the laboratory, the listed value is an approximate concentration
JN or NJ - The listed value of the tenatively identified compound is an approximate concentration
R - The presence or absence of the chemical cannot be verified
U - The chemical was not detected in the sample at the detection limit shown.
UJ - The chemical was not detected in the sample at the approximate detection limit shown.
NC - No criterion
- - Not applicable.
[ ] - Concentration was greater than applicable criteria.

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SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

TABLE E.4

SUMMARY OF RESIDENTIAL INDOOR AIR ANALYTICAL RESULTS
VAPOR INTRUSION INVESTIGATION
SOUTH DAYTON DUMP AND LANDFILL SITE
MORAINE, OHIO

Sample Location:
Sample Location:
Owner / Tenant:
Sample ID:
Sample Date:

Parameter	***Units***	***ODH Indoor Air Screening Levels (Residential)***	***ODH Indoor Air Action Levels (Residential)***
		a	***b***
Volatile Organic Compounds			
1,1,1-Trichloroethane	ppb	NC	NC
1,1,2,2-Tetrachloroethane	ppb	NC	NC
1,1,2-Trichloroethane	ppb	NC	NC
1,1-Dichloroethane	ppb	3.7	37
1,1-Dichloroethene	ppb	NC	NC
1,2,4-Trichlorobenzene	ppb	NC	NC
1,2,4-Trimethylbenzene	ppb	NC	NC
1,2-Dibromoethane (Ethylene dibromide)	ppb	NC	NC
1,2-Dichlorobenzene	ppb	NC	NC
1,2-Dichloroethane	ppb	NC	NC
1,2-Dichloroethene (total)	ppb	NC	NC
1,2-Dichloropropane	ppb	NC	NC
1,2-Dichlorotetrafluoroethane (CFC 114)	ppb	NC	NC
1,3,5-Trimethylbenzene	ppb	NC	NC
1,3-Butadiene	ppb	NC	NC
1,3-Dichlorobenzene	ppb	NC	NC
1,4-Dichlorobenzene	ppb	NC	NC
1,4-Dioxane	ppb	NC	NC
2,2,4-Trimethylpentane	ppb	NC	NC
2-Butanone (Methyl ethyl ketone) (MEK)	ppb	NC	NC
2-Chlorotoluene	ppb	NC	NC
2-Hexanone	ppb	NC	NC
2-Phenylbutane (sec-Butylbenzene)	ppb	NC	NC
4-Ethyl toluene	ppb	NC	NC
4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK)	ppb	NC	NC
Acetaldehyde	ppb	2.5	NC
Acetone	ppb	NC	NC
Allyl chloride	ppb	NC	NC
Benzene	ppb	0.4	4
Benzyl chloride	ppb	NC	NC
Bromodichloromethane	ppb	NC	NC
Bromoform	ppb	NC	NC
Bromomethane (Methyl bromide)	ppb	NC	NC
Butane	ppb	NC	NC
Carbon disulfide	ppb	NC	NC
Carbon tetrachloride	ppb	NC	NC
Chlorobenzene	ppb	NC	NC
Chlorodifluoromethane	ppb	NC	NC
Chloroethane	ppb	NC	NC
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Pentane	ppb		NC		NC
Styrene	ppb		NC		NC
tert-Butyl alcohol	ppb		NC		NC
tert-Butylbenzene	ppb		NC		NC
Tetrachloroethene	ppb	6		60	
Tetrahydrofuran	ppb		NC		NC
Toluene	ppb		NC		NC
trans-1,2-Dichloroethene	ppb		NC		NC
trans-1,3-Dichloropropene	ppb		NC		NC
Trichloroethene	ppb	0.4		4	
Trichlorofluoromethane (CFC-11)	ppb		NC		NC
Trifluorotrichloroethane (Freon 113)	ppb		NC		NC
Vinyl bromide (Bromoethene)	ppb		NC		NC
Vinyl chloride	ppb	0.4		4	
Xylenes (total)	ppb		NC		NC
Gases					
Methane	%	0.05		0.05	
Field Parameter					
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