2365 Haggerty Road South, Canton, Michigan 48188
Tel: 734.397.3100 Fax: 734.397.3131
www.MannikSmithGroup.com

MEMO

To: **Brandon Pursel, USEPA**
From: Francis Biehl, PE and Jason Martinez
CC: Grant Trigger, RACER Trust; David Favero, RACER Trust
Date: March 4, 2020

Project #: R2330025
Re: RACER Van Buren Landfill Site – Fall 2019 Semi-Annual Ground Water Monitoring Results

Tables, Figures and Attachments Included in this Memo are:

- Table 1, Analytes for Semi-Annual Ground Water Monitoring
- Table 2, Summary of Groundwater Sample Results (Non-Residential)
- Table 3, Summary of Groundwater Sample Results (Residential)
- Table 4, Total Depth to Bottom of Wells and Estimated Sediment Accumulation
- Figure 1, Site Location Map
- Figure 2, Groundwater Elevation Contour Map (November 2019)
- Figure 3, Monitoring Well Analytical Summary Through November 2019
- Figure 4, Iron Concentration Contours (November 2019)
- Attachment 1, Low Flow Ground Water Field Sampling Forms
- Attachment 2, Laboratory Analytical Data Reports

The Mannik & Smith Group, Inc. (MSG) has been performing ground water sampling activities at the Van Buren Landfill (VBL) Property located northeast of the Ecorse Road / Michigan Avenue intersection in Van Buren Township, Wayne County, Michigan (Site) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust. *Figure 1, Site Location Map*, depicts the location of the Site relative to nearby roads and major topographic features.

Previous phases of investigation and associated findings were documented in the following reports: *Phase IA Site Investigation*, dated February 19, 2013; *RACER Van Buren Landfill Site – Phase IB Site Investigation*, dated November 20, 2013; *Phase II Site Investigation*, dated March 12, 2014; *Phase III Site Investigation*, dated September 4, 2014; and *RACER Van Buren Landfill Site – Phase IV Site Investigation*, dated July 23, 2015. Previous Semi Annual Ground Water Sampling reports for the Fall, 2015, Spring and Fall 2016, Spring and Fall 2017, Spring and Fall 2018, and Spring 2019 semi-annual ground water sampling events were sent in 2016, 2017, 2018, and 2019 respectively (results for all other semi-annual sampling events were discussed in the investigation reports).

The Fall 2019 Semi Annual Ground Water Sampling activities completed on the General Motors Property are summarized in a separate memo.

FALL 2019 SEMI-ANNUAL GROUND WATER MONITORING EVENT

Since September 2012, MSG has conducted semi-annual ground water monitoring in accordance with *USEPA Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures* and the *Site Sampling Analysis Plan (SAP)*. Proposed modifications to the Semi–Annual Ground Water Sampling Plan were approved by the USEPA Project Manager, Christopher Black via email on November 10, 2015. *Table 1, Analytes for Semi-Annual Ground Water Monitoring* depicts the analyte list utilized during the

Fall 2019 semi-annual ground water monitoring. In addition, MW-13, MW-14, MW-15, MW-16, and MW-28 were sampled and ground water samples were analyzed for total and dissolved iron, aluminum and manganese.

The Fall 2019 Semi-Annual Ground Water Sampling event was completed between October 28, 2019 to November 4, 2019 by Kevin Mercier, Shane Dailey, and Lara Devine and included sampling of monitoring wells associated with the Site. Furthermore, in order to assess ground water quality south of Ecorse Road and to assist in confirmation of background concentrations (primarily for dissolved iron, aluminum, and manganese), a monitoring well located at the former GM Willow Run Powertrain Plant (CRA-266M) was sampled and a static water level was measured to aid in the ground water flow assessment. Static ground water elevations were measured at three (3) other wells (CRA-265M, CRA-834M, and CRA-833M) that are close to CRA-266M to aid in ground water flow assessment. Finally, total well depths were measured at every well to calculate the amount of sediment accumulation in each well.

Ground water sampling field sheets can be found in *Attachment 1, Low Flow Ground Water Field Sampling Forms* . Ground water sampling activities were conducted in general accordance with *USEPA Low-flow (Minimal Drawdown) Ground-Water Sampling Procedures* and the Site *SAP/QAPP*. Samples were analyzed for total and dissolved Aluminum, Iron and Manganese. Samples from well MW-10, MW-23, and MW-24 were analyzed for VOCs in addition to the dissolved metals listed above.

HYDROGEOLOGY

Depth to groundwater was measured in all existing monitoring wells located on the Van Buren Landfill Site and associated adjacent properties. Based on the collected data, ground water appears to flow radially from a local ground water high (ground water mounding) in the central portion of the Site similar to what has been presented in previous reports. Ground water elevation contours and ground water flow from the Fall 2019 ground water hydraulic monitoring data are illustrated on *Figure 2, Ground Water Elevation Contour Map (November2019).*

GROUND WATER SAMPLE RESULTS

A summary of ground water sample analytical results compared to non-residential cleanup criteria are summarized in *Table 2, Summary of Ground Water Sample Results (Non-Residential).* Results compared to residential cleanup criteria are summarized in *Table 3 Summary of Ground Water Sample Results (Residential)*. In addition, total well depths along with estimated sediment accumulation for each well are summarized in *Table 4, Total Depth to Bottom of Wells and Estimated Sediment Accumulation*. The laboratory reports can be found in *Attachment 2, Laboratory Analytical Data Reports.* The distribution of contaminants detected at concentrations exceeding applicable criteria (Health-Based DW) are depicted on *Figure 3, Monitoring Well Analytical Summary through November 2019 Semi-Annual Ground Water Monitoring (Exceedances Only).*

SUMMARY AND RECOMMENDATIONS

In summary, the ground water sample analytical results from the Fall 2019 Semi-Annual Ground Water Monitoring Event were very similar to previous ground water sampling results. The results indicate that ground water samples collected to date from wells along the northern and western perimeter of the Site (monitoring wells MW-1, MW-7, MW-9, and MW-10) contain concentrations of dissolved iron above applicable criteria (MDEQ Part 201 Non-residential Health-Based DW criteria). Sample collected from MW-11 (also located at the northern perimeter of the Site) continues to contain dissolved aluminum, iron and manganese concentrations below MDEQ Part 201 Non-residential Health-Based DW criteria.

It is apparent upon examination of the ground water sample analytical results that ground water south of the Site along Ecorse Road (MW-20) contain dissolved iron at concentrations above MDEQ Part 201 Residential Health-Based DW criteria, the Willow Run Airport wells (MW-35 and MW-36) contain concentrations of dissolved Aluminum, Iron or Manganese below MDEQ Part 201 Residential Health-Based DW criteria, and that these concentrations have generally remained consistent for all sampling events.

Based on dissolved iron concentrations over time and (more importantly) within peripheral monitoring wells located off-Site (depicted in the attached supporting documentation), in conjunction with the length of time that the landfill has been closed (approximately 47 years) the contaminant plume related to the Site (i.e., existing area of groundwater contamination) appears to be stable.

There is a concern that the total metals results are being influenced by sediment build up in the wells and in turn, by turbidity of the water as a result of the sampling activities. Therefore, it is believed that dissolved metal concentrations are more representative of ground water quality compared to total metals.

Total Well Depths were compared to earlier well depths during development of the well and the amount of sediment accumulation in each well was calculated. The result was that thirteen (13) monitoring wells (excluding those monitoring wells on the GM Site and discussed in the report "General Motors Property – Fall 2019 Semi-Annual Ground Water Sampling Results") on and around the Site have an estimated sediment accumulation of over 0.5 feet. All subsequent monitoring events will include the measurement and recording of sediment volume within each monitoring well and purging of water to attempt to lower turbidity to less than 10 NTU before a water sample is collected.

TABLES

Table 1
Proposed Analytes for Semi-Annual Ground Water Monitoring

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

Monitoring Well (MW) ID	Location	Purpose of MW[1]	VOCs	Total Metals[2]	Dissolved Metals[2]
USEPA Testing Method			8260	6020A/7470	6020A/7470
MW-1	North Perimeter of Site	Hydro Assessment, Metals		√	√
MW-3	East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-4	On-Site	Hydro Assessment, Metals		√	√
MW-5	North West Perimeter of Site	Hydro Assessment, Metals		√	√
MW-6	On-Site	Hydro Assessment, Metals		√	√
MW-7	South West Perimeter of Site	Hydro Assessment, Metals		√	√
MW-8	Ecorse Rd (westbound) ROW	Hydro Assessment, Metals		√	√
MW-9	West Perimeter of Site	Hydro Assessment, Metals		√	√
MW-10	North Perimeter of Site	Hydro Assessment, VOCs, Metals	√	√	√
MW-11	North East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-12	On-Site	Hydro Assessment, Metals		√	√
MW-13	On-Site	Hydro Assessment			
MW-14	On-Site	Hydro Assessment			
MW-15	On-Site	Hydro Assessment			
MW-16	On-Site	Hydro Assessment			
MW-17	South East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-18	Ecorse Rd (eastbound) ROW	Hydro Assessment, Metals		√	√
MW-19	Ecorse Rd (eastbound) ROW	Hydro Assessment, Metals		√	√
MW-20	Ecorse Rd (eastbound) ROW	Hydro Assessment, Metals		√	√
MW-21	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-22	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-23	North of Site (Smith Property)	Hydro Assessment, VOCs, Metals	√	√	√
MW-24	North of Site (Smith Property)	Hydro Assessment, VOCs, Metals	√	√	√
MW-25	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-26	North of Site (Smith Property)	Hydro Assessment, Metals		√	√
MW-27	East Perimeter of Site	Hydro Assessment, Metals		√	√
MW-28	On-Site	Hydro Assessment			
MW-29	Michigan Ave (Westbound) ROW	Hydro Assessment, Metals		√	√
MW-30	Michigan Ave (Westbound) ROW	Hydro Assessment, Metals		√	√
MW-31	GM Property	Hydro Assessment, Metals		√	√
MW-32	GM Property	Hydro Assessment, Metals		√	√
MW-33	GM Property	Hydro Assessment, Metals		√	√
MW-34	Rawsonville Rd/Michigan Ave	Hydro Assessment, Metals		√	√
Proposed[3]	Willow Run Airport	Hydro Assessment, Metals		√	√
Proposed[3]	Willow Run Airport	Hydro Assessment, Metals		√	√
CRA-265M	Willow Run Powertrain Plant	Hydro Assessment			
CRA-266M	Willow Run Powertrain Plant	Hydro Assessment, Metals		√	√
CRA-833M	Willow Run Powertrain Plant	Hydro Assessment			
CRA-834M	Willow Run Powertrain Plant	Hydro Assessment			
Total Number of Samples			3	31	31

Notes:

[1] = Constituents historically and/or currently detected in monitoring well exceeding applicable Michigan Part 201 Generic Cleanup Criteria.

[2] = Al, Fe, Mn (Method 6020A).

[3] = Subject to being granted access and installed.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	**7.3**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<25	<1.0	<1.0	<50	<50	**0.78 J**	<1.0	<5.0	<1.0	**6.9**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<25	<1.0	<1.0	<50	**6.9 J**	**0.81 J**	<1.0	<5.0	<1.0	**9.9**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<25	<1.0	<1.0	<50	<50	**0.57 J**	<1.0	<5.0	<1.0	**5.1**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.59 J**	<1.0	<5.0	<1.0	**3.5 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.60 J**	<1.0	<5.0	<1.0	**3.2 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<25	<1.0	<1.0	<50	<50	**0.35 J**	<1.0	<5.0	<1.0	**4.3 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3,4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**1.0 J**	<5.0	**1.7 J**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.5 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	**4.2 J**	<5.0	<5.0	<5.0	<10	<5.0	**0.85 J**	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.4 J**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																							
																					Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																					
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.43 J**	**15**	**1,500**	<1.0	<1.0	**1.1 J**	**2.8 J**	**1.3 J**	<0.005	**17,000**	<3.0	<50
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013							**67**	**0.21 J**	**23**	**1,700**	<1.0	**0.17 J**	**1.5 J**	**3.4 J**	**3.3 J**		**25,000**	**0.25 J**	<50
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.27 J**	**23**	**1,900**	<1.0	**0.10 J**	**1.3 J**	**3.7 J**	**1.2 J**	<0.005	**25,000**	**0.076 J**	<50
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013							**33 J**	**0.19 J**	**28**	**2,200**	<1.0	<1.0	**2.0 J**	**3.1 J**	**0.62 J**		**21,000**	**0.17 J**	<50
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.21 J**	**27**	**2,200**	<1.0	**0.12 J**	**2.5 J**	**3.7 J**	<4.0	**0.0044 J**	**21,000**	<3.0	<50
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014							**14 J**	**0.18 J**	**16 J**	**1,300**	**0.15 J**	<1.0	**0.78 J**	**2.6 J**	**2.4 J**		**17,000**	**0.13 J**	<50
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<100	**0.19 J**	**16**	**1,600**	**0.19 J**	**0.18 J**	**2.7 J**	**3.0 J**	**2.0 J**	**6.7 J**	**18,000**	<3.0	<50
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014							**120**	**0.23 J**	**26**	**1,700**	<1.0	**0.062 J**	**1.6 J**	**1.9 J**	**0.55 J**		**18,000**	<3.0	<50
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.24 J**	**25**	**1,700**	<1.0	<1.0	**1.2 J**	**2.0 J**	<4.0	**3.9 J**	**17,000**	<3.0	<50
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014							**74**	**0.19 J**	**25**	**1,800**	<1.0	<1.0	**1.4 J**	**2.0 J**	**0.17 J**		**18,000**	<3.0	<50
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.18 J**	**25**	**1,700**	<1.0	<1.0	**1.4 J**	**1.8 J**	<4.0	**4.6 J**	**17,000**	<3.0	<50
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015							**30 J**	**0.26 J**	**27**	**1,900**	<1.0	<1.0	**1.3 J**	**2.3 J**	**1.1 J**		**21,000**	<3.0	<50
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.31 J**	**27**	**2,000**	<1.0	<1.0	**1.3 J**	**2.2 J**	**0.50 J**	<5.0	**21,000**	<3.0	<50
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015							**210**	NS	NS	NS	NS	NS	NS	NS	NS		**23,000**	NS	**160,000**
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	**160,000**
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016							**140**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016							**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017							**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	**150,000**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	**9.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	**160,000**
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017							**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	**3.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019							**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	**3.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.29 J**	**14**	**900**	<1.0	<1.0	**1.1 J**	**4.2 J**	**0.39 J**		**9,300**	**0.12 J**	<50
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.51 J**	**1.5 J**	**220**	<1.0	**0.047 J**	**0.86 J**	**1.5 J**	**3.2 J**	<0.005	**2,000**	**0.11 J**	<50
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013							**120**	**0.28 J**	**3.9 J**	**300**	<1.0	**0.11 J**	**0.84 J**	**0.95 J**	**5.4**		**4,000**	**0.24 J**	<50
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.2 J**	**0.40 J**	**3.8 J**	**320**	<1.0	**0.063 J**	**4.5 J**	**1.9 J**	**3.5 J**	<0.005	**4,000**	<3.0	<50
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013							**190**	**0.33 J**	**3.3 J**	**260**	<1.0	<1.0	**1.1 J**	**1.0 J**	**2.1 J**		**3,800**	**0.30 J**	<50
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.31 J**	**3.7 J**	**300**	<1.0	<1.0	**0.46 J**	**1.3 J**	**1.3 J**	<0.005	**3,900**	<3.0	<50
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014							**450**	**0.22 J**	**0.76 J**	**130**	<1.0	<1.0	**0.48 J**	**0.84 J**	**2.6 J**		**2,000**	**0.79 J**	<50
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**89 J**	**0.24 J**	**0.62 J**	**150 J**	<1.0	<1.0	<10	**1.5 J**	**2.1 J**	<0.005	**1,400**	**0.079 J**	<50
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014							**610**	**0.27 J**	**4.1 J**	**310**	**0.23 J**	<1.0	**0.97 J**	**1.5 J**	**3.0 J**		**4,900**	**0.63 J**	<50
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	**6.4 J**	**0.30 J**	**3.4 J**	**370**	<1.0	<1.0	**0.35 J**	**1.9 J**	**2.4 J**	NS	**4,700**	<3.0	<50
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014							**820**	**0.24 J**	**2.7 J**	**340**	<1.0	<1.0	**1.5 J**	**1.5 J**	**3.5 J**		**5,200**	**0.98 J**	<50
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.21 J**	**2.2 J**	**350**	<1.0	<1.0	**0.32 J**	**1.3 J**	**2.2 J**	<5.0	**4,400**	<3.0	<50
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015							**260**	**0.28 J**	**2.8 J**	**290**	<1.0	**0.11 J**	**0.75 J**	**0.74 J**	**2.4 J**		**4,600**	<3.0	<50
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.41 J**	**1.7 J**	**370**	<1.0	**0.11 J**	**0.48 J**	**1.3 J**	**2.1 J**	<5.0	**5,000**	<3.0	<50
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015							**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**120,000**
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**120,000**
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016							**85**	NS	NS	NS	NS	NS	NS	NS	NS		**1,800**	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-1	W-R2330009-043013-MJF-002	4/30/2013	**130**	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**9.1 J**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013	**120**	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**2.0 J**	**6.0 J**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	**120**	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**1.7 J**	**5.6 J**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013	**86**	<0.2	**7.7 J**	<5.0	<0.20	<2.0	**1.7 J**	**3.4 J**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	**90**	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**1.8 J**	**3.4 J**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014	**69**	<0.2	**7.5 J**	**0.71 J**	<0.2	<2.0	**1.8 J**	**2.0 J**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	**65**	<0.2	**7.5 J**	<5.0	<0.2	<2.0	**1.6 J**	**1.4 J**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014	**83**	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.6 J**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	**80**	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014	**81**	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.2 J**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	**78**	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**1.8 J**	<50
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015	**81**	<0.2	**5.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.3 J**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	**81**	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.5 J**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	**59**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	**57**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	**57**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	**42 J**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	**42 J**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-042617-DMS-019	4/26/2017	**41 J**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017	**73**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	**60**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	**48**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	**48**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	**170**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	**160**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	**130**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	**130**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	**86**	<0.2	**15 J**	**0.91 J**	<0.20	<2.0	**0.60 J**	**3.7 J**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	**67**	<0.2	**4.9 J**	**0.98 J**	<0.20	**0.49 J**	**0.53 J**	**2.3 J**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013	**44 J**	<0.2	**5.6 J**	**3.6 J**	<0.20	<2.0	**0.75 J**	**4.4 J**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	**46 J**	<0.2	**7.2 J**	**3.6 J**	<0.20	<2.0	**0.60 J**	**2.4 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013	**38 J**	<0.2	**6.4 J**	**5.6**	<0.20	<2.0	**0.88 J**	**4.3 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	**36 J**	<0.2	**6.6 J**	**5.0 J**	<0.20	<2.0	**0.32 J**	**2.6 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014	**33 J**	<0.2	**4.8 J**	**1.2 J**	<0.20	<2.0	**1.1 J**	**5.9 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	**23 J**	<0.2	**4.8 J**	**1.3 J**	<0.20	<2.0	**0.41 J**	**1.9 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014	**130**	**0.057 J**	**8.9 J**	**0.76 J**	<0.20	**0.22 J**	**1.6 J**	**8.0 J**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	**110**	**0.058 J**	**8.0 J**	**1.4 J**	<0.20	<2.0	**0.56 J**	**3.8 J**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014	**74**	<0.2	**7.8 J**	**1.5 J**	<0.20	<2.0	**2.1 J**	**9.1 J**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	**66**	<0.2	**7.0 J**	**1.6 J**	<0.20	<2.0	**0.56 J**	**4.2 J**
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015	**37 J**	<0.2	**4.7 J**	**1.3 J**	**0.055 J**	<2.0	**0.65 J**	**4.5 J**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	**39 J**	<0.2	**5.9 J**	**2.2 J**	**0.081 J**	<2.0	<4.0	<50
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	**13 J**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	**14 J**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<25	<1.0	<1.0	<50	**12 J**	**0.39 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<25	<1.0	<1.0	<50	**8.5 J**	**0.43 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<0.84	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<0.84	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016							**48 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	ND	NS
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017							**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**72,000**
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**69,000**
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017							**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	**71,000**
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**67,000**
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017							**78**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018							**470**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018							**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,500**	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019							**1,900**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019							**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.6 J**	**0.097 J**	**1.4 J**	**470**	<1.0	<1.0	**1.1 J**	**1.2 J**	<4.0	<0.005	**14,000**	<3.0	<50
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.14 J**	**1.2 J**	**480**	<1.0	<1.0	**0.85 J**	**1.3 J**	**0.26 J**	<0.005	**15,000**	**0.034 J**	<50
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.21 J**	<5.0	**410**	<1.0	<1.0	**0.84 J**	**2.7 J**	<4.0	<0.005	**11,000**	<3.0	<50
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013							**4.5 J**	**0.22 J**	<5.0	**480**	<1.0	**0.29 J**	**0.80 J**	**2.4 J**	**2.7 J**		**16,000**	<3.0	<50
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**170**	**0.12 J**	<5.0	**490**	<1.0	**0.29 J**	**1.4 J**	**1.5 J**	**2.6 J**	<0.005	**16,000**	**0.30 J**	<50
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013							**490**	**0.23 J**	**1.7 J**	**460**	<1.0	<1.0	**2.9 J**	**2.2 J**	**1.4 J**		**16,000**	**1.2 J**	<50
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.19 J**	**1.1 J**	**460**	<1.0	**0.34 J**	**0.78 J**	**2.0 J**	**0.65 J**	<0.005	**15,000**	<3.0	<50
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014							**2,800**	**0.40 J**	**5.1**	**480**	**0.095 J**	<1.0	**4.5 J**	**5.7 J**	**9.6 J**		**20,000**	**7.5**	<50
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.23 J**	**2.9 J**	**450**	<1.0	<1.0	**0.37 J**	**2.4 J**	**2.0 J**	**3.4 J**	**15,000**	<3.0	<50
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014							**500**	**0.35 J**	**2.8 J**	**430**	<1.0	<1.0	**1.3 J**	**2.0 J**	**1.9 J**		**14,000**	**0.71 J**	<50
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.5 J**	**0.37 J**	**2.5 J**	**410**	<1.0	<1.0	**0.54 J**	**1.8 J**	**0.95 J**	<5.0	**12,000**	<3.0	<50
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015							**3,100**	**0.33 J**	**2.3 J**	**500**	<1.0	<1.0	**4.7 J**	**3.4 J**	**7.8**		**20,000**	**4.4**	<50
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.1 J**	**0.23 J**	**0.97 J**	**450**	<1.0	<1.0	**0.55 J**	**1.7 J**	**1.1 J**	<5.0	**16,000**	<3.0	<50
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015							**84**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016							**81**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016							**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017							**21 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	**150,000**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	**140,000**
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018							**36**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019							**82**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019							**85**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019							**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-110416-JPM-029	11/4/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017	**260**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-042817-AFB-029	4/28/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017	**93**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-102417-DMS-008	10/23/2017	**88**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018	**240**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	**200**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	**200**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	**300**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	**260**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019	**220**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	**230**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	**56**	<0.2	**2.4 J**	**0.46 J**	<0.20	<2.0	**0.75 J**	**1.9 J**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	**55**	<0.2	**2.4 J**	<5.0	<0.025	<2.0	**0.73 J**	**2.4 J**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	**490**	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**0.85 J**	**1.1 J**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013	**77**	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.0 J**	**2.4 J**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	**80**	<0.2	**4.0 J**	**1.0 J**	<0.20	<2.0	**1.4 J**	**3.5 J**
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013	**96**	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**2.1 J**	**7.5 J**
MW-4	W-R2330009-111213-ACN-003	11/12/2013	**70**	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.94 J**	**2.8 J**
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014	**700**	<0.2	**16 J**	**1.4 J**	<0.20	**0.12 J**	**8.5**	**35 J**
MW-4	W-R2330012-032714-ACN-006	3/27/2014	**410**	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**0.74 J**	**20 J**
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014	**110**	<0.2	**6.2 J**	<5.0	<0.20	<2.0	**2.2 J**	**6.5 J**
MW-4	W-R2330012-12114-JCH-020	12/1/2014	**100**	<0.2	**5.4 J**	<5.0	<0.20	<2.0	**1.0 J**	**3.1 J**
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015	**140**	<0.2	**11 J**	<5.0	**0.029 J**	<2.0	**6.6**	**23 J**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	**69**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.71 J**	<50
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	**490**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	**560**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	**72**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-110416-JPM-036	11/4/2016	**60**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	**760**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-042817-AFB-034	4/28/2017	**730**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	**62**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	**60**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	**680**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	**690**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	**71**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	**69**	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019	**740**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	**730**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<25	<1.0	<1.0	<50	**6.9 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<25	<1.0	<1.0	<50	**15 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018																			
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<25	<1.0	<1.0	<50	**11 J**	**4.9**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<25	<1.0	<1.0	<50	<50	**2.8**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<25	<1.0	<1.0	<50	<50	**4.6**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<25	<1.0	<1.0	<50	<50	**3.2**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	**1.3 J**	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<25	<1.0	<1.0	<50	<50	**2.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	**1.2 J**	<4.0	<5.0	**0.99 J**	<5.0	<5.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	**1.2 J**	<4.0	<5.0	**0.93 J**	<5.0	<5.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018																			
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.4 J**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.47 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	**0.58 J**	<5.0	<5.0	<5.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.17 J**	**31**	**1,300**	<1.0	<1.0	**1.5 J**	**2.3 J**	<4.0	<0.005	**5,300**	**0.3 J**	<50
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.27 J**	**31**	**1,300**	<1.0	<1.0	**1.9 J**	**2.3 J**	<4.0	<0.005	**5,400**	**0.061 J**	<50
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013							**330**	**2.2 J**	**34**	**1,500**	<1.0	**0.84 J**	**2.1 J**	**2.3 J**	**3.5 J**		**5,300**	**2.1 J**	<50
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.27 J**	**31**	**1,400**	<1.0	**0.16 J**	**1.6 J**	**3.1 J**	**2.1 J**	<0.005	**4,300**	**0.069 J**	<50
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013							**420**	**0.26 J**	**40**	**1,400**	<1.0	**0.98 J**	**2.6 J**	**2.6 J**	**3.5 J**		**6,500**	**4.9 J**	<50
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.20 J**	**38**	**1,300**	<1.0	**0.57 J**	**2.9 J**	**2.6 J**	<4.0	**0.0016**	**5,900**	<3.0	<50
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014							**1,100**	**0.50 J**	**40**	**1,300**	**0.25 J**	**0.49 J**	**3.3 J**	**3.1 J**	**8.0 J**		**8,100**	**12 J**	<50
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**0.25 J**	**31**	**1,200**	<1.0	<1.0	**0.61 J**	**2.6 J**	**1.0 J**	**2.6 J**	**4,500**	**0.34**	<50
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014							**280**	**0.20 J**	**33**	**1,400**	<1.0	**2.1**	**1.7 J**	**2.0 J**	**0.86 J**		**5,500**	**1.4 J**	<50
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.4 J**	**0.19 J**	**32**	**1,400**	<1.0	**0.026 J**	**1.7 J**	**1.9 J**	<4.0	<5.0	**5,000**	**2.4 J**	<50
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015							**360**	**0.24 J**	**34**	**1,400**	<1.0	**5.3**	**2.2 J**	**2.4 J**	**3.9 J**		**6,200**	**2.3 J**	<50
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.29 J**	**30**	**1,500**	<1.0	<1.0	**1.3 J**	**2.6 J**	**0.98 J**	<5.0	**5,200**	<3.0	<50
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015							**3,100**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	**150,000**
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	**140,000**
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016							**2,800**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	NS
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016							**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016							**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017							**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	**140,000**
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	**140,000**
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017							**890**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018							**740**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS
MW-5	W-R2330024-042518-JPM-026	4/25/2018	NS	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018							**590**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019							**700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019							**100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.16 J**	**9.4**	**580**	<1.0	<1.0	**1.0 J**	**2.4 J**	**0.31 J**	<0.005	**26,000**	**0.057 J**	<50
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.5 J**	**0.15 J**	**3.7 J**	**480**	<1.0	<1.0	**1.6 J**	**1.5 J**	<4.0	<0.005	**18,000**	**0.31 J**	<50
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013							**47 J**	**0.11 J**	**6.0**	**540**	<1.0	**0.19 J**	**0.94 J**	**1.9 J**	**4.40**		**22,000**	**0.29 J**	<50
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.8 J**	**0.15 J**	**5.5**	**550**	<1.0	**0.25 J**	**0.75 J**	**2.4 J**	**3.5 J**	<0.005	**21,000**	**0.063 J**	<50
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013							**200 J**	**0.16 J**	**5.4 J**	**520**	<1.0	**0.25 J**	**1.8 J**	**1.7 J**	**1.4 J**		**18,000**	**0.55 J**	<50
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**160**	**0.14 J**	**5.5 J**	**520**	<1.0	**0.43 J**	**2.2 J**	**1.7 J**	**1.3 J**	<0.005	**18,000**	**0.41 J**	<50
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014							**76**	**0.15 J**	**3.0 J**	**460**	<1.0	<1.0	**0.56 J**	**2.0 J**	**2.0 J**		**11,000**	**0.31 J**	<50
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.6 J**	**0.17 J**	**3.4 J**	**460**	<1.0	<1.0	**0.37 J**	**1.4 J**	**1.9 J**	**1.3 J**	**10,000**	<3.0	<50
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014							**320**	**0.17 J**	**4.5 J**	**570**	<1.0	**0.068 J**	**1.7 J**	**1.1 J**	**0.85 J**		**18,000**	<3.0	<50
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.6 J**	**0.17 J**	**4.8 J**	**540**	<1.0	<1.0	**0.53 J**	**1.0 J**	<4.0	<5.0	**17,000**	<3.0	<50
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015							**300**	**0.35 J**	**3.1 J**	**430**	<1.0	**0.098 J**	**1.5 J**	**1.7 J**	**4.1**		**12,000**	**1.1 J**	<50
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.41 J**	**1.9 J**	**360**	<1.0	<1.0	**0.42 J**	**1.5 J**	**2.0 J**	<5.0	**11,000**	<3.0	<50
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015							**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**130,000**
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**130,000**
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016							**100**	NS	NS	NS	NS	NS	NS	NS	NS		**5,800**	NS	NS
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	**7.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016							**76**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-5	W-R2330009-050113-MJF-004	5/1/2013	**56**	<0.2	**3.5 J**	**0.69 J**	<0.20	<2.0	**1.3 J**	**1.1 J**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	**58**	<0.2	**3.9 J**	**0.67 J**	<0.20	**0.069 J**	**1.2 J**	**1.1 J**
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013	**56**	<0.2	**4.9 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**10 J**
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	**50**	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**3.1 J**
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013	**81 J**	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**2.5 J**	**11 J**
MW-5	W-R2330009-111213-ACN-004	11/12/2013	**71 J**	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.4 J**
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	**93**	<0.2	**9.2 J**	<5.0	**0.051 J**	<2.0	**4.2**	**26 J**
MW-5	W-R2330012-032814-ACN-008	3/28/2014	**57**	<0.2	**6.5 J**	**0.70 J**	<0.20	<2.0	**1.3 J**	**0.65 J**
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014	**79**	<0.2	**3.4 J**	<5.0	**0.029 J**	<2.0	**2.1 J**	**6.0 J**
MW-5	W-R2330012-12214-JCH-025	12/2/2014	**73**	<0.2	**3.4 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015	**81**	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**2.2 J**	**9.3 J**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	**73**	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-042116-JPM-024	4/21/2016	**58**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016	**79**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-110216-AEM-013	11/2/2016	**52**	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016	**72**	NS	NS	NS	NS	NS	NS	NS
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	**50**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017	**56**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-042617-AFB-016	4/26/2017	**50 J**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017	**76**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	**62**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-042518-JPM-026	4/25/2018	**390**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-042518-JPM-026	4/25/2018	**380**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	**440**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	**120**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	**87**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019	**77**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	**76**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	**500**	<0.2	**3.8 J**	**0.051 J**	<0.025	<2.0	**1.2 J**	**1.5 J**
MW-6	W-R2330009-050213-MJF-012	5/2/2013	**640**	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**0.99 J**	**2.1 J**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013	**790**	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.8 J**
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	**750**	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.2 J**
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013	**430**	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.7 J**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	**430**	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.3 J**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014	**410**	<0.2	**11 J**	<5.0	<0.20	**0.084 J**	**1.2 J**	**5.0 J**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	**410**	<0.2	**12 J**	<5.0	<0.20	<2.0	**0.99 J**	**3.0 J**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014	**420**	<0.2	**4.9 J**	<5.0	**0.027 J**	<2.0	**2.2 J**	**14 J**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	**410**	<0.2	**4.2 J**	<5.0	**0.020 J**	<2.0	**1.8 J**	<50
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015	**500**	<0.2	**15 J**	<5.0	<0.20	<2.0	**1.9 J**	**42 J**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	**470**	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.84 J**	**33 J**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016	**320**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-042116-JPM-026	4/21/2016	**360**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	**500**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017							**83**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	**52,000**
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**47,000**
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017							**550**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017							**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018							**32**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI,nr}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-6	W-R2330021-110416-JPM-037	11/4/2016	**490**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	**960**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-042817-AFB-033	4/28/2017	**910**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	**410**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	**360**	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017	**370**	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	**370**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	**260**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	**250**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019																			
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<25	<1.0	<1.0	<50	**5.5 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<25	<1.0	<1.0	<50	<50.0	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019																			
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.95 J**	<5.0	<5.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.18 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.4 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																							
																						Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018							**U**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**U**	NS	NS
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018							**5.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	**7.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019							**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	**9.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**500**	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019							**8.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,500**	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.4 J**	**0.84 J**	**0.87 J**	**450**	<1.0	<1.0	**1.4 J**	**3.4 J**	**2.1 J**	<0.005	**3,400**	**0.074 J**	<50
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013							**39 J**	**0.39 J**	**18**	**520**	<1.0	**0.43 J**	**1.4 J**	**3.8 J**	**2.2 J**		**8,100**	**0.47 J**	<50
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.48 J**	**17**	**520**	<1.0	**0.21 J**	**1.2 J**	**4.3 J**	**3.1 J**	<0.005	**7,700**	**0.096 J**	<50
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013							**21 J**	**0.58 J**	**7.0 J**	**370**	<1.0	**1.2 J**	**1.3 J**	**3.6 J**	**2.4 J**		**5,700**	**0.31 J**	<50
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.57 J**	**6.4 J**	**380**	<1.0	**0.92 J**	**1.3 J**	**4.1 J**	**1.5 J**	**0.0037 J**	**5,600**	<3.0	<50
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014							**11 J**	**0.18 J**	**3.5 J**	**330**	<1.0	**0.54 J**	**0.72 J**	**3.8 J**	**7.9**		**8,900**	**0.39 J**	<50
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.6 J**	**0.16 J**	**3.4 J**	**370**	<1.0	<1.0	<2.0	**3.2 J**	**4.4**	<0.005	**9,600**	<3.0	<50
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014							**20 J**	**0.18 J**	**4.5 J**	**420**	<1.0	**0.16 J**	**0.98 J**	**2.9 J**	**0.69 J**		**10,000**	<3.0	<50
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.4 J**	**0.18 J**	**3.2 J**	**420**	<1.0	<1.0	**0.81 J**	**2.5 J**	<4.0	<5.0	**9,400**	<3.0	<50
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015							**130**	**0.21 J**	**2.9 J**	**320**	<1.0	**0.39 J**	**1.1 J**	**3.1 J**	**2.9 J**		**8,500**	**0.42 J**	<50
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.1 J**	**0.26 J**	**2.4 J**	**330**	<1.0	<1.0	**0.87 J**	**3.2 J**	**1.6 J**	<5.0	**8,600**	<3.0	<50
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015							**69**	NS	NS	NS	NS	NS	NS	NS	NS		**7,500**	NS	**150,000**
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	**150,000**
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016							**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	NS
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016							**23 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017							**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	**170,000**
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	**160,000**
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017							**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018							**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018							**62**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	**5.8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019							**67**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	**4.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,700**	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.21 J**	**1.2 J**	**380**	<1.0	<1.0	**0.56 J**	**1.5 J**	<4.0	<0.005	**6,200**	<3.0	<50
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013							**51**	**0.16 J**	**4.1 J**	**470**	<1.0	**0.12 J**	**1.2 J**	**1.5 J**	**3.8 J**		**8,200**	**0.80 J**	<50
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	**0.20 J**	**3.9 J**	**460**	<1.0	**0.098 J**	**0.94 J**	**2.3 J**	**1.6 J**	<0.005	**8,100**	**0.074 J**	<50
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013							**98 J**	**0.12 J**	**3.7 J**	**420**	<1.0	**0.50 J**	**1.3 J**	**1.6 J**	**1.6 J**		**7,700**	**0.34 J**	<50
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.13 J**	**3.6 J**	**440**	<1.0	**0.49 J**	**2.0 J**	**1.8 J**	**1.5 J**	**0.0015 J**	**7,500**	<3.0	<50
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014							**1,200**	**0.11 J**	**4.7 J**	**370**	<1.0	**2.1**	**2.7 J**	**2.4 J**	**4.7**		**8,000**	**4.7**	<50
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	<2.0	**3.3 J**	**350**	<1.0	<1.0	**0.34 J**	**1.3 J**	**0.50 J**	<5.0	**4,900**	<3.0	<50
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015							**440**	<2.0	**2.0 J**	**330**	<1.0	**0.73 J**	**3.2 J**	**1.2 J**	**2.7 J**		**7,100**	**1.9 J**	<50
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.18 J**	**1.3 J**	**330**	<1.0	<1.0	**0.47 J**	**1.3 J**	**1.5 J**	<5.0	**5,900**	<3.0	<50
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015							**540**	NS	NS	NS	NS	NS	NS	NS	NS		**3,300**	NS	**92,000**
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**91,000**
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016							**140**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018	**U**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-102418-SSR-015	10/24/2018	**420**	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018	**400**	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	**410**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019	**740**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-050619-ADH-029	5/6/2019	**660**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019	**380**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	**380**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	**530**	<0.2	**11 J**	<5.0	<0.20	<2.0	**1.2 J**	**40 J**
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013	**910**	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.4 J**	**44 J**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	**880**	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.2 J**	**39 J**
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013	**490**	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.2 J**	**22 J**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	**480**	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.3 J**	**6.6 J**
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014	**560**	<0.2	**18 J**	**0.84 J**	<0.20	**0.22 J**	**1.2 J**	**15 J**
MW-7	W-R2330012-032614-ACN-001	3/26/2014	**530**	<0.2	**16 J**	<5.0	<0.20	<2.0	**1.0 J**	**8.2 J**
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014	**690**	<0.2	**8.4 J**	<5.0	**0.022 J**	<2.0	**2.1 J**	**6.3 J**
MW-7	W-R2330012-112614-JCH-015	11/26/2014	**670**	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015	**440**	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.4 J**	**19 J**
MW-7	W-R2330017-031715-JCH-013	3/17/2015	**450**	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.2 J**	**4.4 J**
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016	**500**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-041916-JPM-007	4/19/2016	**470**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016	**340**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-110116-AEM-007	11/1/2016	**320**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017	**490**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-042517-DMS-013	4/25/2017	**470**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017	**760**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-102717-DMS-028	10/27/2017	**740**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	**610**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	**600**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	**1,000**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	**950**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	**670**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	**690**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019	**1,100**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	**1,000**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	**180**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.0 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013	**200**	<0.2	**6.8 J**	<5.0	<0.20	<2.0	**1.3 J**	**4.0 J**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	**200**	<0.2	**6.6 J**	<5.0	<0.20	<2.0	**0.91 J**	**3.0 J**
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	**200**	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.5 J**	**3.2 J**
MW-8	W-R2330009-111213-ACN-005	11/12/2013	**210**	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.4 J**
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	**400**	<0.2	**19 J**	<5.0	<0.20	<2.0	**5.2**	**18 J**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	**330**	<0.2	**10 J**	<5.0	<0.20	<2.0	**0.85 J**	**5.8 J**
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	**210**	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**2.0 J**	**11 J**
MW-8	W-R2330017-032015-JCH-029	3/20/2015	**200**	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.74 J**	<50
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	**200**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
								Metals													
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016							**50 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	**8.70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017							**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,600**	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018							**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	**8.80**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,400**	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019							**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,700**	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI,nr}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-8	W-R2330021-041916-JPM-008	4/19/2016	**200**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016	**2,800**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330021-110116-AEM-008	11/1/2016	**290**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017	**310**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330022-102617-AFB-024	10/26/2017	**320**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	**1.8**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	**440**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019	**330**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	**330**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<25	<1.0	<1.0	<50	<50	**0.36 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016																			
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<25	<1.0	<1.0	<50	**4.3 J**	**8.6**	<1.0	<5.0	**25**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.5**	<1.0	<5.0	**24**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**23**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**13**	<1.0	<5.0	**36**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**12**	<1.0	<5.0	**35**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**24**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**25**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<25	<1.0	<1.0	<50	<50	**7.8**	<1.0	<5.0	**38**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**28**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**27**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.91 J**	**0.92 J**	**1.7 J**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016																			
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	**0.86 J**	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**1.0 J**	<5.0	**1.7 J**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	**0.28 J**	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.1 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.8 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.6 J**	**0.2 J**	**44**	**1,700**	<1.0	<1.0	**1.9 J**	**2.4 J**	**0.71 J**	<0.005	**28,000**	**0.053 J**	<50
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013							**13 J**	**0.13 J**	**52**	**1,300**	<1.0	**0.22 J**	**1.0 J**	**1.4 J**	**2.1 J**		**31,000**	**0.17 J**	<50
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**52**	**1,300**	<1.0	**0.24 J**	**0.91 J**	**2.2 J**	**1.7 J**	<0.005	**30,000**	**0.068 J**	<50
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013							**43 J**	**0.16 J**	**59**	**2,100**	<1.0	<1.0	**2.0 J**	**1.7 J**	<4.0		**30,000**	**0.30 J**	<50
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.17 J**	**60**	**2,200**	<1.0	<1.0	**1.0 J**	**1.7 J**	<4.0	<0.005	**29,000**	**0.083 J**	<50
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014							**42 J**	**0.18 J**	**59**	**1,800**	<1.0	**0.050 J**	**1.0 J**	**1.2 J**	<4.0		**31,000**	<3.0	<50
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.25 J**	**62**	**1,900**	<1.0	<1.0	**1.0 J**	**1.4 J**	<4.0	<5.0	**30,000**	<3.0	<50
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014							**190**	**0.19 J**	**51**	**1,700**	<1.0	<1.0	**1.0 J**	**2.2 J**	**2.6 J**		**34,000**	**0.99 J**	<50
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.15 J**	**47**	**1,900**	<1.0	<1.0	**0.70 J**	**2.2 J**	**1.4 J**	**2.1 J**	**34,000**	**0.21 J**	<50
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015							**260**	**0.19 J**	**49**	**1,700**	<1.0	**0.094 J**	**1.4 J**	**2.0 J**	**3.9 J**		**34,000**	**1.1 J**	<50
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.0 J**	**0.34 J**	**46**	**1,800**	<1.0	<1.0	**0.83 J**	**1.9 J**	**1.4 J**	<5.0	**33,000**	<3.0	<50
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015							**510**	NS	NS	NS	NS	NS	NS	NS	NS		**33,000**	NS	**120,000**
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32,000**	NS	**130,000**
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33,000**	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016							**270**	NS	NS	NS	NS	NS	NS	NS	NS		**29,000**	NS	NS
MW-9	W-R2330021-110216-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017							<50	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	**150,000**
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	**140,000**
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017							**55**	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	NS
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018							**12**	NS	NS	NS	NS	NS	NS	NS	NS		**30,000**	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018							**130**	NS	NS	NS	NS	NS	NS	NS	NS		**3,300**	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019							**37**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS		**25,000**	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<1.0	**1.1 J**	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.19 J**	**7.4**	**1,800**	<1.0	<1.0	**1.8 J**	**2.6 J**	<4.0	<0.005	**17,000**	**0.054 J**	<50
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013							**26 J**	**0.27 J**	**6.5**	**1,700**	<1.0	**0.29 J**	**2.2 J**	**3.1 J**	**3.4 J**		**17,000**	**7.3**	<50
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.1 J**	**0.31 J**	**6.7**	**1,800**	<1.0	**0.22 J**	**2.0 J**	**3.5 J**	**2.7 J**	<0.005	**17,000**	**2.4 J**	<50
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013							**25 J**	**0.26 J**	**6.7**	**1,700**	<1.0	**0.40 J**	**2.0 J**	**3.1 J**	3.4 J		**17,000**	**7.2**	<50
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.25 J**	**6.4**	**1,700**	<1.0	**0.27 J**	**2.0 J**	**3.1 J**	**2.4 J**	<0.005	**17,000**	**2.7 J**	<50
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013							**26 J**	**0.24 J**	**10**	**1,900**	<1.0	**1.7 J**	**3.7 J**	**3.3 J**	**1.8 J**		**2,300**	**2.8 J**	<50
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.23 J**	**9.7 J**	**1,900**	<1.0	**1.4 J**	**2.7 J**	**3.8 J**	**1.1 J**	**0.0019 J**	**2,100**	**0.16 J**	<50
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013							**26 J**	**0.23 J**	**10**	**1,900**	<1.0	**1.7 J**	**2.9 J**	**3.4 J**	**1.4 J**		**2,300**	**2.8 J**	<50
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.8 J**	**0.20 J**	**9.2 J**	**1,900**	<1.0	**1.7 J**	**2.6 J**	**3.4 J**	**1.1 J**	**0.0023 J**	**2,100**	**0.18 J**	<50
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014							**32 J**	**0.20 J**	**6.6 J**	**1,700**	<1.0	<1.0	**1.6 J**	**3.0 J**	**1.9 J**		**24,000**	**1.6 J**	<50
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.0 J**	**0.22 J**	**6.5 J**	**1,700**	<1.0	<1.0	**0.79 J**	**2.5 J**	**3.3 J**	**2.4 J**	**24,000**	**0.14 J**	<50
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014							**45 J**	**0.23 J**	**7.1 J**	**1,800**	<1.0	<1.0	**1.6 J**	**2.9 J**	**1.5 J**		**25,000**	**1.7 J**	<50
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**6.8 J**	**1,700**	<1.0	<1.0	<10	**3.0 J**	**1.1 J**	**4.1 J**	**23,000**	**0.14 J**	<50
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014							**21 J**	**0.23 J**	**7.1**	**2,100**	<1.0	**0.034 J**	**2.3 J**	**2.2 J**	<4.0		**22,000**	**2.2 J**	<50
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.2 J**	**0.22 J**	**8.4**	**2,100**	<1.0	<1.0	**2.3 J**	**2.4 J**	<4.0	<5.0	**23,000**	<3.0	<50
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015							**24 J**	**0.29 J**	**7.3**	**2,500**	<1.0	**0.028 J**	**2.5 J**	**2.3 J**	**0.51 J**		**23,000**	**2.5 J**	<50
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.26 J**	**7.0**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.40 J**	<5.0	**22,000**	<3.0	<50
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015							**26 J**	**0.21 J**	**6.6**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.65 J**		**21,000**	**2.1 J**	<50
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.24 J**	**7.2**	**2,400**	<1.0	<1.0	**2.6 J**	**2.7 J**	**0.27 J**	<5.0	**23,000**	**0.36 J**	<50
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015							**31 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**160,000**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-ny}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-9	W-R2330009-050113-MJF-007	5/1/2013	**760**	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**7.5 J**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013	**440**	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.6 J**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	**430**	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.4 J**	**2.9 J**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013	**400**	<0.2	**6.9 J**	<5.0	<0.20	**0.14 J**	**1.5 J**	**3.7 J**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	**340**	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.5 J**	**2.5 J**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014	**330**	<0.2	**3.2 J**	<5.0	**0.024 J**	<2.0	**1.9 J**	**3.7 J**
MW-9	W-R2330012-12214-JCH-024	12/2/2014	**300**	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014	**600**	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-9	W-R2330012-032614-ACN-003	3/26/2014	**570**	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.1 J**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015	**390**	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**11 J**
MW-9	W-R2330012-031915-JCH-017	3/19/2015	**370**	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**3.9 J**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	**500**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	**540**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110216-AEM-012	11/2/2016	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-110216-AEM-012	11/2/2016	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-042617-DMS-015	4/26/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017	**220**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-102717-DMS-030	10/27/2017	**220**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	**98**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	**270**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	**240**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	**350**	<0.2	**4.9 J**	**0.66 J**	<0.20	<2.0	**2.3 J**	**2.4 J**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013	**600**	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	**600**	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.2 J**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	**580**	<0.2	**7.4 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**8.5 J**
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	**600**	<0.2	**7.4 J**	**0.79 J**	<0.20	<2.0	**2.2 J**	**4.9 J**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013	**460**	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**3.0 J**	**7.0 J**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	**480**	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.4 J**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013	**450**	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.0 J**	**3.8 J**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	**470**	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.0 J**
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014	**550**	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**2.1 J**
MW-10	W-R2330012-032814-ACN-010	3/28/2014	**540**	<0.2	**9.8 J**	<5.0	<0.20	**0.24 J**	**1.8 J**	**3.0 J**
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014	**550**	<0.2	**7.9 J**	**0.84 J**	<0.20	<2.0	**2.3 J**	**2.1 J**
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	**530**	<0.2	**8.0 J**	**0.83 J**	<0.20	<2.0	**1.9 J**	<50
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	**420**	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	**3.7 J**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	**430**	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	<50
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	**450**	<0.2	**3.9 J**	<5.0	<0.20	<2.0	**2.8 J**	**3.4 J**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	**420**	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**2.3 J**	<50
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015	**420**	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.8 J**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	**430**	<0.2	**3.7 J**	<5.0	**0.021 J**	<2.0	**2.7 J**	**3.3 J**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<25	<1.0	**0.48 J**	<50	<50	**12**	<1.0	<5.0	**44**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	**0.29 J**	<1.0	<1.0
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<25	<1.0	<1.0	<50	**5.5 J**	**7.4**	<1.0	<5.0	**24**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<25	<1.0	**.41 J**	<50	**1.8 J**	**11.0**	<1.0	<5.0	**41**	<5.0	<0.17	<1.0	**.49 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<25	<1.0	<1.0	<50	**7.4 J**	**7.2**	<1.0	<5.0	**32**	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	<25	<1.0	<1.0	<50	**3.5 J**	**9.8**	<1.0	<5.0	**34**	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018																			
MW-10	W-R2330024-042418-DMS-016	4/24/2018	<25	<1.0	<1.0	<50	**3.5 J**	**6.4**	<1.0	<5.0	**30**	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	<0.47	<0.12	**0.36 J**	<0.52	**2.6 J**	**4.9**	<0.22	<0.39	**31**	<0.68	<0.68	<0.46	<0.18	<0.20	<.30	<0.29	**0.30 J**	<0.090	<0.32
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	<0.52	<0.32	<0.35	<0.52	4.3 J	4.4	<0.49	<0.49	**29**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.52	<0.32	<0.35	<0.52	<6.2	4.3	<0.49	<0.49	**31**	<0.68	**1.5**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016																			
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018																			
MW-10	W-R2330024-042418-DMS-016	4/24/2018	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	<.74	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<3.0	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.92 J**	<5.0	**1.7 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016																			
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.2 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**160,000**
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	NS
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**27,000**	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016							**32 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	**160,000**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	**150,000**
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017							**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018							**75**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-10	W-R2330024-042418-DMS-016	4/24/2018	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018							**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	**8.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.6 J**	**0.13 J**	<5.0	**26**	<1.0	<1.0	**0.69 J**	**0.41 J**	**0.76 J**	<0.005	**13 J**	**0.0079 J**	<50
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013							**22 J**	**0.079 J**	<5.0	**57 J**	<1.0	<1.0	**0.49 J**	**0.51 J**	**2.7 J**		**270**	<3.0	<50
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.12 J**	<5.0	**61 J**	<1.0	<1.0	**0.53 J**	**0.93 J**	**2.0 J**	<0.005	**270**	<3.0	<50
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013							**730**	**0.66 J**	**1.0 J**	**38 J**	<1.0	<1.0	**3.1 J**	**1.2 J**	**3.0 J**		**1,600**	**1.3 J**	<50
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**22 J**	**0.30 J**	**0.65 J**	**47 J**	<1.0	<1.0	**0.40 J**	**0.91 J**	**0.82 J**	<0.005	**150 J**	<3.0	<50
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014							**180**	**0.12 J**	<5.0	**38 J**	<1.0	<1.0	**0.55 J**	**0.74 J**	**1.5 J**		**380**	**0.37 J**	<50
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.096 J**	<5.0	**47 J**	<1.0	<1.0	<10	**0.80 J**	**0.96 J**	<0.005	**110 J**	<3.0	<50
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014							**26 J**	**0.10 J**	**1.2 J**	**72 J**	<1.0	**0.047 J**	<10	**0.57 J**	**0.76 J**		**500**	<3.0	<50
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	**2.7 J**	**0.15 J**	**1.1 J**	**75 J**	<1.0	<1.0	<10	**1.1 J**	**1.4 J**	NS	**500**	<3.0	<50
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014							**47 J**	<2.0	<5.0	**58 J**	<1.0	**0.087 J**	**0.23 J**	**0.67 J**	**4.3**		**220**	<3.0	<50
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	<2.0	**0.65 J**	**69 J**	<1.0	0.052 J	<10	**0.67 J**	**1.1 J**	<5.0	**320**	<3.0	<50
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015							**65**	<2.0	<5.0	**20 J**	<1.0	**0.39 J**	**2.5 J**	**0.30 J**	**1.2 J**		**110 J**	<3.0	<50
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.17 J**	<5.0	**20 J**	<1.0	**0.29 J**	**0.16 J**	**0.47 J**	**0.78 J**	<5.0	<200	<3.0	<50
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015							**17 J**	NS	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**29,000**
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	**2.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	**29,000**
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016							**390**	NS	NS	NS	NS	NS	NS	NS	NS		**700**	NS	NS
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016							**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017							**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	**29,000**
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	**25,000**
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017							**69**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018							**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018							**1,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2000**	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019							**660**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	**<2.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<15**	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019							**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1200**	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.22 J**	**1.4 J**	**1,100**	<1.0	<1.0	**1.9 J**	**4.0 J**	<4.0	<0.005	**15,000**	**0.17 J**	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330021-042116-JPM-023	4/21/2016	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330021-110216-JPM-019	11/2/2016	**430**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017	**430**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-042617-DMS-017	4/26/2017	**410**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018	**450**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-042418-DMS-016	4/24/2018	**450**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	**550**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	**570**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	**500**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	**500**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	**520**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	**7.4 J**	<0.2	**1.2 J**	**1.7 J**	<0.20	<2.0	<4.0	**2.0 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013	**58**	<0.2	**2.2 J**	**0.74 J**	<0.20	<2.0	**0.24 J**	**2.5 J**
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	**61**	<0.2	**2.2 J**	**1.1 J**	<0.20	<2.0	**0.23 J**	**2.2 J**
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013	**75**	<0.2	**4.8 J**	**1.1 J**	<0.20	**0.24 J**	**2.1 J**	**8.6 J**
MW-11	W-R2330009-111213-ACN-001	11/12/2013	**60**	<0.2	**3.2 J**	**0.83 J**	<0.20	<2.0	<4.0	**3.1 J**
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014	**52**	<0.2	**3.4 J**	**1.3 J**	<0.20	<2.0	**0.34 J**	**0.91 J**
MW-11	W-R2330012-032614-ACN-002	3/26/2014	**54**	<0.2	**3.3 J**	**0.83 J**	<0.20	**0.098 J**	**0.28 J**	<50.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014	**68**	**0.062 J**	**2.5 J**	<5.0	<0.20	<2.0	**0.28 J**	**2.8 J**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	**68**	**0.064 J**	**2.6 J**	<5.0	<0.20	<2.0	**0.20 J**	**3.2 J**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014	**110**	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.48 J**	**7.3 J**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	**96**	<0.2	**2.9 J**	**0.93 J**	<0.20	<2.0	<4.0	**3.5 J**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015	**130**	<0.2	**3.5 J**	**0.92 J**	<0.20	<2.0	<4.0	<50
MW-11	W-R2330017-031715-ACN-009	3/17/2015	**4.8 J**	<0.2	**1.7 J**	**1.0 J**	<0.20	<2.0	<4.0	<50
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016	**310**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-042116-JPM-021	4/21/2016	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016	**190**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-110116-JPM-010	11/1/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	**95**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	**17 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	**85**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	**12**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	**350**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	**83**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	**420**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	**8.4**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	**1,500**	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**8.8 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	**0.24 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013							**170**	**0.15 J**	**1.2 J**	**1,400**	<1.0	**0.27 J**	**1.2 J**	**1.4 J**	**6.1**		**18,000**	**0.36 J**	<50
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.26 J**	**0.93 J**	**1,500**	<1.0	**0.30 J**	**0.73 J**	**2.4 J**	**3.6 J**	<0.005	**17,000**	**0.062 J**	<50
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013							**89**	**0.16 J**	**0.79 J**	**1,600**	**0.13 J**	**0.33 J**	**1.0 J**	**1.5 J**	**1.5 J**		**12,000**	**0.26 J**	<50
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.16 J**	**0.85 J**	**1,500**	<1.0	**0.68 J**	**0.99 J**	**1.9 J**	**1.3 J**	<0.005	**12,000**	<3.0	<50
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014							**61**	**0.18 J**	**0.82 J**	**1,200**	<1.0	<1.0	**0.53 J**	**1.9 J**	**3.6 J**		**8,800**	**0.24 J**	<50
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.19 J**	<5.0	**1,300**	<1.0	<1.0	**0.43 J**	**1.5 J**	**4.6**	**2.2 J**	**9,100**	**0.22 J**	<50
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014							**1,200**	**0.31 J**	**2.7 J**	**1,600**	<1.0	**0.090 J**	**2.6 J**	**1.3 J**	**3.9 J**		**14,000**	**1.3 J**	<50
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.22 J**	<5.0	**1,600**	<1.0	<1.0	**0.55 J**	**0.86 J**	<4.0	<5.0	**12,000**	<3.0	<50
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015							**1,000**	**0.31 J**	**1.4 J**	**1,800**	<1.0	<1.0	**2.2 J**	**1.9 J**	**7.6**		**14,000**	**2.2 J**	<50
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.1 J**	**0.58 J**	<5.0	**1,500**	<1.0	<1.0	**0.58 J**	**1.4 J**	**1.3 J**	<5.0	**12,000**	<3.0	<50
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015							**340**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**130,000**
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015							**380**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016							**60**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	**27 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017							**36 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	**66,000**
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,000**	NS	**65,000**
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017							**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017							**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018							**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019							**610**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019							**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019							**2,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019							**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019							**63**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014							**1,400**	**0.11 J**	**5.6**	**160**	<1.0	<1.0	**2.4 J**	**0.98 J**	**2.8 J**		**4,200**	**2.2 J**	<50
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.063 J**	**4.5 J**	**150**	<1.0	<1.0	<10	**0.23 J**	<4.0	<0.005	**2,100**	**0.052 J**	<50
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014							**980**	**0.063 J**	**5.8**	**150**	<1.0	**0.056 J**	**1.5 J**	**0.80 J**	**2.2 J**		**3,600**	**1.8 J**	<50
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	**21 J**	**0.093 J**	**5.1**	**150**	<1.0	<1.0	<10	**0.65 J**	**0.96 J**	NS	**2,500**	<3.0	<50
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014							**1,200**	**0.071 J**	**6.0**	**150**	<1.0	<1.0	**2.2 J**	**0.85 J**	**3.2 J**		**3,800**	**1.8 J**	<50
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	**19 J**	**0.042 J**	**5.3**	**140**	<1.0	<1.0	**0.50 J**	**0.50 J**	**0.94 J**	NS	**2,500**	<3.0	<50
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014							**700**	<2.0	**6.3**	**190**	<1.0	**0.075 J**	**1.6 J**	**0.61 J**	**1.7 J**		**4,100**	**1.5 J**	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013	**470**	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.7 J**	**4.5 J**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	**420**	<0.2	**4.2 J**	<5.0	<0.20	<2.0	**1.2 J**	**2.7 J**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013	**210**	<0.2	**4.5 J**	<5.0	<0.20	**0.12 J**	**1.3 J**	**3.4 J**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	**190**	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.97 J**	**2.2 J**
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014	**750**	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**1.1 J**	**4.1 J**
MW-12	W-R2330012-032714-ACN-005	3/27/2014	**660**	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**5.8 J**
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	**310**	<0.2	**3.5 J**	<5.0	**0.040 J**	<2.0	**4.5**	**8.1 J**
MW-12	W-R2330012-12114-JCH-021	12/1/2014	**340**	<0.2	**1.7 J**	<5.0	**0.064 J**	<2.0	**1.0 J**	<50
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015	**170**	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**2.9 J**	**13 J**
MW-12	W-R2330017-031715-ACN-011	3/17/2015	**140**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.93 J**	**4.5 J**
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-042116-AFB-027	4/21/2016	**160**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016	**270**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	**270**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	**740**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-042817-AFB-032	4/28/2017	**740**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	**260**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	**400**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	**420**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	**240**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	**690**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	**700**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019	**290**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019	**300**	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	**290**	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	**360**	NS	NS	NS	NS	NS	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	**280**	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	**720**	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019	**530**	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	**520**	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019	**460**	NS	NS	NS	NS	NS	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	**460**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	**210**	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**4.3**	**7.9 J**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	**180**	<0.2	**1.2 J**	<5.0	<0.20	<2.0	**0.65 J**	**1.7 J**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014	**240**	**0.064 J**	**4.4 J**	<5.0	<0.20	<2.0	**2.8 J**	**7.9 J**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	**220**	**0.064 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.36 J**	**3.1 J**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014	**240**	**0.063 J**	**4.7 J**	<5.0	<0.20	<2.0	**2.9 J**	**7.7 J**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	**230**	**0.058 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.32 J**	**2.9 J**
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014	**300**	<0.2	**2.2 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.42 J**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																					Metals	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	**5.8**	**190**	<1.0	<1.0	<10	**0.25 J**	**0.23 J**	<5.0	**3,000**	<3.0	<50
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015							**2,000**	<2.0	**5.1**	**260**	<1.0	**0.45 J**	**2.9 J**	**1.4 J**	**4.2**		**5,300**	**3.4**	<50
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**9.8 J**	<2.0	**2.7 J**	**240**	<1.0	**0.050 J**	**0.14 J**	**0.62 J**	**1.0 J**	<5.0	**2,300**	<3.0	<50
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015							**990**	NS	NS	NS	NS	NS	NS	NS	NS		**4,600**	NS	**22,000**
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	**21,000**
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016							**310**	NS	NS	NS	NS	NS	NS	NS	NS		**3,600**	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016							**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	**23,000**
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**23,000**
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017							**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018							**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018							**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019							**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019							**780**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014							**5,400**	**0.35 J**	**10**	**400**	**0.23 J**	**0.28 J**	**8.8 J**	**5.6 J**	**11**		**13,000**	**6.9**	<50
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**56**	**0.24 J**	**5.1**	**370**	**0.097 J**	**0.16 J**	**0.30 J**	**1.3 J**	<4.0	<0.005	**2,000**	**0.20 J**	<50
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014							**25,000**	**1.0 J**	**46**	**730**	**1.2**	**1.4**	**48**	**34**	**74**		**72,000**	**52**	<50
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**45 J**	**0.18 J**	**11**	**550**	<1.0	**0.088 J**	<10	**0.59 J**	**0.21 J**	<5.0	**3,600**	<3.0	<50
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015							**28,000**	**1.3 J**	**51**	**740**	**0.77 J**	**1.4**	**35**	**25**	**60**		**60,000**	**45**	<50
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	**6.7**	**450**	<1.0	**0.041 J**	**0.15 J**	**0.97 J**	**1.5 J**	<5.0	**2,800**	<3.0	<50
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015							**2,200**	NS	NS	NS	NS	NS	NS	NS	NS		**7,200**	NS	**30,000**
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	**22 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	**25,000**
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016							**2,100**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	NS
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016							**96**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017							**2,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	**44,000**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	**18,000**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017							**5,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018							**7,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018							**580**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019							**540**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014							**1,900**	**0.089 J**	**6.2**	**350**	<1.0	**0.062 J**	**3.5 J**	**1.5 J**	**3.4 J**		**5,300**	**1.6 J**	<50
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**120**	**0.12 J**	**4.5 J**	**320**	<1.0	<1.0	**0.53 J**	**1.1 J**	0.87 J	**1.2 J**	**2,400**	**0.088 J**	<50
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014							**7,900**	**0.49 J**	**14**	**380**	**0.34 J**	**0.27 J**	**16**	**6.7 J**	**17**		**16,000**	**9.7**	<50
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**74**	**0.15 J**	**6.3**	**330**	<1.0	**0.054 J**	**0.30 J**	**0.93 J**	**0.18 J**	<5.0	**2,000**	<3.0	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-17	W-R2330012-112414-MCW-004	11/24/2014	**280**	<0.2	**0.74 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015	**330**	<0.2	**6.4 J**	<5.0	<0.20	<2.0	**3.7 J**	**11 J**
MW-17	W-R2330017-031615-ACN-007	3/16/2015	**320**	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.2 J**
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	**400**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	**380**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	**3,900**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-110116-AEM-009	11/1/2016	**410**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330022-042517-AFB-011	4/25/2017	**430**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017	**440**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330022-102617-AFB-023	10/26/2017	**440**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018	**510**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	**500**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	**440**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019	**370**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	**360**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	**600**	<0.2	**15 J**	**1.6 J**	**0.047 J**	**0.18 J**	**16**	**27 J**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	**250**	<0.2	**3.1 J**	<5.0	<0.20	**0.21 J**	**0.61 J**	**2.9 J**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	**3,800**	**0.030 J**	**79**	**8.0**	**0.17 J**	**1.3 J**	**90**	**200**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	**210**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	**2700**	<0.2	**71**	**2.5 J**	**0.16 J**	**0.91 J**	**67**	**170**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	**180**	<0.2	**5.3 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	**220**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-041916-AEP-009	4/19/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-042517-DMS-008	4/25/2017	**150**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	**880**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	**1700**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	**130**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	**590**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	**250**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	**190**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019	**240**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	**350**	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**6.3**	**9.2 J**
MW-19	W-R2330012-052014-ACN-027	5/20/2014	**300**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.5 J**
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014	**560**	<0.2	**21**	**1.7 J**	**0.080 J**	<2.0	**24**	**53**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	**350**	<0.2	**1.8 J**	<5.0	<0.20	<2.0	**0.48 J**	**3.9 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.78 J**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																					Metals	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015							**1,600**	**0.12 J**	**11**	**510**	<1.0	<1.0	**2.8 J**	**1.9 J**	**4.1**		**6,600**	**1.7 J**	<50
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.14 J**	**5 J**	**540**	<1.0	<1.0	**0.3 J**	**0.91 J**	**1.8 J**	<5.0	**3,500**	<3.0	<50
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015							**4,100**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	**38,000**
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**34,000**
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	**25 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-19[A]	DUP 1	4/19/2016							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017							**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	**27,000**
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	**28,000**
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017							**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018							**740**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018							**1,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019							**690**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014							**1,800**	**0.15 J**	**9.5**	**340**	<1.0	**0.061 J**	**3.8 J**	**1.6 J**	**5.1**		**9,600**	**2.7 J**	<50
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.065 J**	**5.6**	**330**	<1.0	<1.0	**0.39 J**	**0.71 J**	1.1 J	<0.005	**4,900**	<3.0	<50
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014							**330**	<2.0	**8.8**	**290**	<1.0	<1.0	**0.90 J**	**0.49 J**	**1.2 J**		**4,200**	**0.69 J**	<50
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**100**	<2.0	**7.7**	**300**	<1.0	<1.0	**0.39 J**	**0.66 J**	**0.32 J**	<5.0	**3,600**	<3.0	<50
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015							**1,600**	**0.14 J**	**7.5**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.9**		**7,000**	**2.8 J**	<50
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**64**	**0.13 J**	**5.8**	**260**	<1.0	<1.0	**0.36 J**	**0.73 J**	**0.98 J**	<5.0	**4,200**	<3.0	<50
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015							**1,600**	**0.13 J**	**7.6**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.7**		**7,100**	**2.8 J**	<50
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**43 J**	<2.0	**6.1**	**250**	<1.0	<1.0	**0.28 J**	**0.61 J**	**0.93 J**	<5.0	**4,900**	<3.0	<50
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015							**2,600**	NS	NS	NS	NS	NS	NS	NS	NS		**10,000**	NS	**56,000**
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**55,000**
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016							**46 J**	NS	NS	NS	NS	NS	NS	NS	NS		**3,500**	NS	NS
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016							**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017							**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	**46,000**
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	**50,000**
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017							**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	**46,000**
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**50,000**
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017							**960**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018							**680**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	**45**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018							**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019							**1,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015	**520**	<0.2	**9.4 J**	**0.82 J**	<0.20	<2.0	**4.2**	**11 J**
MW-19	W-R2330017-031615-JCH-004	3/16/2015	**460**	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.53 J**	**3.7 J**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016	**450**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-041916-JPM-010	4/19/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016	**450**	NS	NS	NS	NS	NS	NS	NS
MW-19	DUP 1	4/19/2016	**420**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016	**360**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-110316-AEM-027	11/3/2016	**350**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017	**360**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-042517-AFB-009	4/25/2017	**370**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	**380**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	**350**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	**420**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	**400**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019	**510**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	**500**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	**280**	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**6.4**	**11 J**
MW-20	W-R2330012-052014-ACN-028	5/20/2014	**200**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.57 J**	**1.1 J**
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	**160**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	**150**	<0.2	**1.4 J**	<5.0	<0.20	<2.0	**0.68 J**	**4.5 J**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015	**210**	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**4.0 J**	**12 J**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	**170**	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.52 J**	<50
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015	**210**	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**3.9 J**	**12 J**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	**170**	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.55 J**	<50
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-041916-JPM-011	4/19/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	**170**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-042517-DMS-010	4/25/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	**190**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-102617-AFB-022	10/26/2017	**140**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	**170**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	**250**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019	**210**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018																			
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<25	<1.0	<1.0	<50	<50	**3.7**	<1.0	<5.0	**40**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.87 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**1.5 J**	<10	<4.0	<5.0	**1.2 J**	<5.0	**0.88 J**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018																			
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.85 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014							**1,400**	**0.16 J**	**1.9 J**	**38 J**	<1.0	<1.0	**2.4 J**	**1.7 J**	**4.1**		**2,400**	**1.4 J**	<50
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**48 J**	**0.16 J**	<5.0	**31 J**	<1.0	<1.0	<10	**0.91 J**	**1.2 J**	<0.005	**56 J**	<3.0	<50
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014							**480**	**0.15 J**	**1.1 J**	**81 J**	<1.0	**0.076 J**	**1.1 J**	**0.89 J**	**2.0 J**		**850**	**0.72 J**	<50
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**0.70 J**	**72 J**	<1.0	**0.061 J**	**0.22 J**	**0.70 J**	**0.98 J**	<5.0	**42 J**	<3.0	<50
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015							**3,000**	**0.23 J**	**2.2 J**	**73 J**	<1.0	**0.21 J**	**5.1 J**	**2.5 J**	**6.2**		**4,100**	**2.9 J**	<50
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.19 J**	<5.0	**62 J**	<1.0	**0.078 J**	**0.14 J**	**0.89 J**	**0.41 J**	<5.0	**20 J**	<3.0	<50
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015							**34 J**	NS	NS	NS	NS	NS	NS	NS	NS		**59 J**	NS	**21,000**
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	**21,000**
MW-21[A] (DUP)	DUP 1	11/18/2015							**27 J**	NS	NS	NS	NS	NS	NS	NS	NS		**47 J**	NS	**20,000**
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	**21,000**
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**320**	NS	NS
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**50 J**	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016							**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14 J**	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017							**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**220**	NS	**19,000**
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	**6.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	**20,000**
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017							**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018							**270**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93**	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**52**	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014							**8,100**	**0.78 J**	**14**	**540**	<1.0	**0.56 J**	**14**	**9.5 J**	**31**		**21,000**	**19**	<50
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**4.3 J**	**440**	<1.0	<1.0	<10	**2.2 J**	**0.64 J**	**1.3 J**	**3,100**	**0.079 J**	<50
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014							**200**	**0.18 J**	**16**	**1,300**	<1.0	**0.11 J**	**1.1 J**	**1.9 J**	**1.3 J**		**11,000**	**0.62 J**	<50
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.22 J**	**15**	**1,300**	<1.0	<1.0	**0.70 J**	**1.7 J**	<4.0	<5.0	**11,000**	<3.0	<50
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014							**160**	<2.0	**16**	**1,300**	<1.0	**0.095 J**	**0.80 J**	**1.7 J**	**1.1 J**		**11,000**	<3.0	<50
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.11 J**	**16**	**1,300**	<1.0	<1.0	**0.61 J**	**1.7 J**	**0.37 J**	**17**	**11,000**	<3.0	<50
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015							**340**	**0.17 J**	**14**	**1,300**	<1.0	<1.0	**1.3 J**	**2.2 J**	**4.0**		**13,000**	**2.3 J**	<50
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.23 J**	**13**	**1,400**	<1.0	<1.0	**0.54 J**	**2.1 J**	**1.8 J**	**6.0**	**12,000**	<3.0	<50
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015							**95**	NS	NS	NS	NS	NS	NS	NS	NS		**7,000**	NS	**120,000**
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	**120,000**
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016							**37 J**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	**41 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016							**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017							**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	**93,000**
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	**90,000**
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017							**41**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS
MW-22	W-R220024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019							**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,600**	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014							**560**	**0.15 J**	**13**	**610**	<1.0	<1.0	**1.7 J**	**2.2 J**	**2.1 J**		**13,000**	**1.2 J**	<50
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.7 J**	**0.089 J**	**12**	**560**	<1.0	<1.0	**0.76 J**	**1.9 J**	<4.0	<0.005	**12,000**	**0.067 J**	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-ny}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-20	W-R2330025-103019-KRM-026	10/30/2019	**210**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	**60**	<0.2	**5.5 J**	**0.68 J**	<0.20	<2.0	**3.8 J**	**9.9 J**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	**9.1 J**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.32 J**	**1.9 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	**52**	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.8 J**	**8.2 J**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	**37 J**	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	**4.5 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	**100**	<0.2	**7.7 J**	<5.0	**0.038 J**	<2.0	**8.5**	**18 J**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	**25 J**	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	**4.6 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-042016-JPM-015	4/20/2016	**3.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	**35 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	**36 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	**33 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	**24 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	**46**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	**43**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	**150**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	**120**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	**730**	<0.2	**23**	**2.7 J**	<0.20	<2.0	**24**	**81**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	**360**	<0.2	**3.2 J**	<5.0	<0.20	<2.0	**0.64 J**	**2.2 J**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	**250**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**6.8 J**
MW-22	W-R2330012-112514-ACN-007	11/25/2014	**240**	<0.2	**3.7 J**	<5.0	<0.20	<2.0	<4.0	**23 J**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014	**270**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.75 J**	**5.6 J**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	**260**	<0.2	**3.8 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015	**270**	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**1.5 J**	**8.6 J**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	**250**	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**0.71 J**	**5.9 J**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	**88**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	**82**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	**91**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	**91**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	**140**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-042717-DMS-023	4/27/2017	**130**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	**72**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-102517-AFB-014	10/25/2017	**67**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R220024-042418-JPM-015	4/24/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R220024-042418-JPM-015	4/24/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019	**67**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330025-110119-KRM-036	11/1/2019	**76**	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019	**75**	NS	NS	NS	NS	NS	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	**82**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	**180**	<0.2	**4.4 J**	**0.92 J**	<0.20	<2.0	**2.5 J**	**7.2 J**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	**160**	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**1.1 J**	**2.2 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<25	<1.0	<1.0	<50	<50	**4.2**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<25	<1.0	<1.0	<50	<50	**5.4**	<1.0	<5.0	**89**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<25	<1.0	<1.0	<50	<50	**4.1**	<1.0	<5.0	**72**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<25	<1.0	<1.0	<50	<50	**2.5**	<1.0	<5.0	**36**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<25	<1.0	<1.0	<50	**3.2 J**	**1.2**	<1.0	<5.0	**18**	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	<25	<1.0	<1.0	<50	**2.2 J**	**2.7**	<1.0	<5.0	**43**	<5.0	<0.17	<1.0	**0.60 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	**65**	<5.0	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	<25	<1.0	<1.0	<50	<50	**2.1**	<1.0	<5.0	**42**	<5.0	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.52	<0.32	<0.32	<0.52	<6.2	**2.1**	<0.49	<0.49	**58**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	<25	<1.0	<1.0	<50	**1.6 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	<25	<1.0	<1.0	<50	**2.8 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.52	<0.32	<0.35	<0.52	**9.8 J**	<0.46	<0.49	<0.49	<0.40	<0.68	**0.94 J**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.91 J**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0**	<5.0	**1.6 J**	<10	<4.0	<5.0	<5.0	<5.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.80 J**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<3.0	<10	<10	**0.40 J**	<10	<10	<5.0	<10	<5.0	**0.30 J**	<5.0	<10	<5.0	<10	<10	**0.38 J**	<5.0	<5.0	<5.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014							**590**	**0.11 J**	**12**	**580**	<1.0	<1.0	**1.7 J**	**2.1 J**	**2.2 J**		**13,000**	**1.3 J**	<50
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.5 J**	**0.076 J**	**12**	**550**	<1.0	<1.0	**0.70 J**	**1.8 J**	<4.0	<0.005	**11,000**	<3.0	<50
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014							**6,700**	**1.1 J**	**46**	**1,300**	**0.31 J**	**0.68 J**	**18**	**9.3 J**	**37**		**35,000**	**30**	<50
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**21 J**	**0.20 J**	**26**	**1,100**	<1.0	**0.037 J**	**1.3 J**	**2.4 J**	**0.18 J**	<5.0	**18,000**	<3.0	<50
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015							**650**	**0.20 J**	**17**	**940**	<1.0	<1.0	**2.2 J**	**3.1 J**	**3.7 J**		**17,000**	**2.6 J**	<50
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.21 J**	**16**	**860**	<1.0	<1.0	**0.96 J**	**2.8 J**	**2.3 J**	<5.0	**16,000**	**0.82 J**	<50
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015							**180**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**130,000**
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	**5.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	**130,000**
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016							**570**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	**110,000**
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	**4.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	**110,000**
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017							**65**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018							**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019							**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014							**310**	<2.0	**5.7**	**170**	<1.0	<1.0	**0.57 J**	**0.50 J**	**1.6 J**		**5,300**	**0.38 J**	<50
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.074 J**	**5.2**	**160**	<1.0	<1.0	<10	**0.76 J**	**0.75 J**	<0.005	**4,700**	<3.0	<50
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014							**12 J**	<2.0	**4.6 J**	**130**	<1.0	**0.051 J**	**0.13 J**	**0.25 J**	<4.0		**2,500**	<3.0	<50
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**4.9 J**	**130**	<1.0	<1.0	<10	**0.19 J**	<4.0	<5.0	**2,100**	<3.0	<50
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015							**84**	<2.0	**7.4**	**140**	<1.0	**0.24 J**	**0.68 J**	**0.56 J**	**1.8 J**		**5,900**	**0.47 J**	<50
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.19 J**	**3.2 J**	**130**	<1.0	**0.066 J**	<10	**0.57 J**	**1.3 J**	<5.0	**2,600**	**0.36 J**	<50
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015							**260**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**48,000**
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**47,000**
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016							**170**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	**39 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016							**730**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017							**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	**50,000**
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**49,000**
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017							**27**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018							**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014							**2,600**	**0.24 J**	**1.9 J**	**83 J**	<1.0	<1.0	**3.8 J**	**1.5 J**	**7.4**		**3,800**	**2.5 J**	<50
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.21 J**	**0.63 J**	**68 J**	<1.0	<1.0	<10	**0.59 J**	**3.7 J**	<0.005	**110 J**	**0.25 J**	<50
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014							**400**	**0.18 J**	**0.85 J**	**72 J**	<1.0	**0.11 J**	**1.3 J**	**0.53 J**	**3.2 J**		**570**	**0.59 J**	<50
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.15 J**	<5.0	**66 J**	<1.0	**0.071 J**	<10	**0.33 J**	**2.9 J**	<5.0	**16 J**	<3.0	<50
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015							**450**	**0.22 J**	**0.88 J**	**72 J**	<1.0	**0.060 J**	**0.84 J**	**0.77 J**	**4.2**		**620**	**0.57 J**	<50
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<1.0	**0.13 J**	**0.71 J**	<2.0	<5.0	<5.0	**12 J**	**0.28 J**	<5.0	**67 J**	<1.0	**0.061 J**	<10	**0.63 J**	**6.2**	<5.0	**28 J**	**0.37 J**	<50
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015							**6,000**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**30,000**
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	**46 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**63 J**	NS	**16,000**
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016							**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**2,400**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-ny}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014	**180**	<0.2	**4.4 J**	**0.72 J**	<0.20	<2.0	**2.6 J**	**7.3 J**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	**150**	<0.2	**3.1 J**	<5.0	<0.20	<2.0	**0.84 J**	**1.9 J**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014	**310**	<0.2	**25**	**2.8 J**	**0.059 J**	<2.0	**29**	**100**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	**78**	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.5 J**
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015	**120**	<0.2	**7.4 J**	**0.76 J**	**0.023 J**	<2.0	**3.3 J**	**9.2 J**
MW-23	W-R2330017-032015-ACN-028	3/20/2015	**99**	<0.2	**6.3 J**	<5.0	**0.020 J**	<2.0	**1.2 J**	**4.1 J**
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	**89**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-042016-JPM-020	4/20/2016	**99**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-110216-JPM-016	11/2/2016	**92**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017	**85**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	**80**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	**90**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	**91**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	**79**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	**73**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019	**77**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	**77**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	**640**	<0.2	**3.8 J**	**0.69 J**	<0.20	<2.0	**0.69 J**	**4.9 J**
MW-24	W-R2330012-052014-ACN-030	5/20/2014	**620**	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	**1.7 J**
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014	**690**	<0.2	**1.7 J**	<5.0	<0.20	<2.0	<4.0	**4.7 J**
MW-24	W-R2330012-112614-JCH-013	11/26/2014	**670**	<0.2	**0.93 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015	**740**	<0.2	**3.1 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-24	W-R2330017-032015-ACN-026	3/20/2015	**700**	<0.2	**2.8 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	**840**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	**920**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	**820**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	**760**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	**990**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-042717-DMS-027	4/27/2017	**970**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	**700**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	**710**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018	**1000**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	**960**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019	**760**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	**770**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	**190**	<0.2	**6.3 J**	**2.4 J**	<0.20	<2.0	**6.8**	**12 J**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	**150**	<0.2	**2.3 J**	1.7 J	<0.20	<2.0	**0.35 J**	**2.2 J**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	**340**	<0.2	**6.5 J**	**1.1 J**	<0.20	<2.0	**1.4 J**	**6.1 J**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	**250**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	<4.0	**4.4 J**
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	**310**	<0.2	**4.9 J**	**1.2 J**	<0.20	<2.0	**1.5 J**	**6.3 J**
MW-25	W-R2330017-032015-JCH-025	3/20/2015	**110**	<0.2	**4.8 J**	**1.1 J**	<0.20	<2.0	<4.0	**8.4 J**
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	**990**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-27[A]	NS	NS																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-27[A]	NS	NS																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017							**720**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	**19,000**
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	**18,000**
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017							**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019							**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014							**900**	**0.37 J**	**2.7 J**	**37 J**	<1.0	<1.0	**1.8 J**	**1.2 J**	**4.6**		**1,900**	**1.1 J**	<50
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**36 J**	**0.39 J**	**1.5 J**	**34 J**	<1.0	<1.0	<10	**1.1 J**	**1.0 J**	<0.005	**55 J**	<3.0	<50
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014							**210**	**0.22 J**	<5.0	**25 J**	<1.0	**0.13 J**	**0.52 J**	**0.65 J**	**2.0 J**		**360**	<3.0	<50
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.16 J**	<5.0	**24 J**	<1.0	**0.079 J**	<10	**0.54 J**	**1.0 J**	<5.0	<200	<3.0	<50
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015							**2,200**	**0.33 J**	**3.5 J**	**34 J**	<1.0	**0.16 J**	**4.5 J**	**2.1 J**	**7.8**		**4,300**	**3.4**	<50
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**82**	**0.27 J**	<5.0	**21 J**	<1.0	**0.070 J**	**0.29 J**	**0.80 J**	**2.2 J**	<5.0	**130 J**	<3.0	<50
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015							**910**	NS	NS	NS	NS	NS	NS	NS	NS		**2,300**	NS	21000
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	20000
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016							**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**910**	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017							**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	**14,000**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23 J**	NS	**13,000**
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**480**	NS	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018							**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019							**440**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**650**	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014							**190**	**0.61 J**	**4.7 J**	**240**	<1.0	**0.097 J**	**0.69 J**	**2.4 J**	**3.7 J**		**1,700**	**0.70 J**	<50
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	**5.8 J**	**0.58 J**	**4.5 J**	**240**	<1.0	<1.0	<10	**2.9 J**	**1.9 J**	NS	**1,500**	**0.076 J**	<50
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014							**460**	**0.25 J**	**2.7 J**	**200**	<1.0	**0.063 J**	**1.2 J**	**2.5 J**	**4.2**		**1,900**	**1.2 J**	<50
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**32 J**	**0.18 J**	**2.2 J**	**290**	<1.0	<1.0	**0.22 J**	**2.1 J**	**1.4 J**	<5.0	**2,600**	<3.0	<50
MW-27[A]	NS	NS							**270**	**0.43 J**	**0.97 J**	**210**	<1.0	**0.13 J**	**0.76 J**	**1.9 J**	**2.3 J**		**2,200**	**0.62 J**	<50
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.67 J**	**0.75 J**	**260**	<1.0	**0.23 J**	**0.35 J**	**2.4 J**	**1.3 J**	<5.0	**1,900**	<3.0	<50
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015							**54**	NS	NS	NS	NS	NS	NS	NS	NS		**2,400**	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	**2.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016							**59**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	NS
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	**3.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016							**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017							**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	**75,000**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	**69,000**
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017							**35**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,800**	NS	NS
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-25	W-R2330021-042016-AEP-017	4/20/2016	**68**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	**370**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	**230**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	**580**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-042717-DMS-026	4/27/2017	**95**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017	**570**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	**320**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018	**1,100**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	**45**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019	**3,300**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	**210**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	**110**	<0.2	**4.3 J**	**0.9 J**	<0.20	<2.0	**3.1 J**	**7.3 J**
MW-26	W-R2330012-051914-ACN-020	5/19/2014	**86**	<0.2	**0.23 J**	<5.0	<0.20	<2.0	**0.41 J**	**1.6 J**
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014	**69**	<0.2	**2.7 J**	**0.86 J**	<0.20	<2.0	**0.98 J**	**4.5 J**
MW-26	W-R2330012-112614-JCH-011	11/26/2014	**65**	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	**3.0 J**
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015	**100**	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**7.0**	**16 J**
MW-26	W-R2330017-032015-ACN-024	3/20/2015	**25 J**	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	**58**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	**11 J**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	**45 J**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	**250**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-042717-DMS-025	4/27/2017	**5.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	**71**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	**62**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018	**17**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	**5.4**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019	**26**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	**22**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	**160**	**0.064 J**	**9.1 J**	<5.0	<0.20	<2.0	**1.1 J**	**7.0 J**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	**160**	**0.062 J**	**8.8 J**	<5.0	<0.20	<2.0	**0.55 J**	**5.0 J**
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	**140**	<0.2	**9.3 J**	**1.1 J**	<0.20	<2.0	**1.9 J**	**11 J**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	**110**	<0.2	**7.5 J**	**0.79 J**	<0.20	<2.0	**0.66 J**	**4.2 J**
MW-27[A]	NS	NS	**72**	<0.2	**5.7 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.0 J**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	**80**	<0.2	**6.8 J**	**0.97 J**	**0.095 J**	<2.0	<4.0	**3.1 J**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	**94**	NS	NS	NS	NS	NS	NS	NS
MW-27	NS	4/22/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330021-110416-JPM-033	11/4/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-042817-AFB-031	4/28/2017	**90**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	**92**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-102417-DMS-009	10/24/2017	**91**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																				Metals	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018							**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	**4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018							**48**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019							**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	**2.9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015							**530**	<2.0	**2.5 J**	**200**	<1.0	**0.046 J**	**1.3 J**	**1.4 J**	**1.6 J**		**3,200**	**2.0 J**	<50
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	**8.8 J**	<2.0	**2.3 J**	**200**	<1.0	<1.0	<10	**1.1**	**0.35 J**	<5.0	**2,400**	<3.0	<50
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015							**370**	<2.0	**2.1 J**	**200**	<1.0	**0.065 J**	**1.3 J**	**1.3 J**	**0.88 J**		**2,900**	**0.60 J**	<50
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	<2.0	**2.4**	**200**	<1.0	<1.0	<10	**1.3 J**	<4.0	<5.0	**2,500**	<3.0	<50
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015							**1,400**	**0.11 J**	**6.2**	**220**	<1.0	**0.11 J**	**3.3 J**	**2.0 J**	**5.6**		**5,400**	**2.8 J**	<50
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**3.1 J**	**220**	<1.0	**0.048 J**	<10	**1.0 J**	1.3 J	<5.0	**2,800**	<3.0	<50
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015							**420**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	**21,000**
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**20,000**
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS		**5,400**	NS	NS
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016							**54**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017							**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**21,000**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**22,000**
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017							**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018							**42**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018							**15.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	**110.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019							**230.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019							**40**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015							**580**	**0.30 J**	**4.3 J**	**120**	<1.0	**0.53 J**	**1.7 J**	**0.30 J**	**3.9 J**		**500**	**1.3 J**	<50
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	**0.39 J**	**3.2 J**	**110**	<1.0	**0.45 J**	<10	**0.28 J**	**1.1 J**	**5.0**	**18 J**	<3.0	<50
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015							**110**	**0.28 J**	**1.6 J**	**95 J**	<1.0	**0.54 J**	**0.34 J**	**0.19 J**	**2.2 J**		**100 J**	<3.0	<50
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.8 J**	**0.44 J**	**2.3 J**	**110**	<1.0	**0.22 J**	<10	**0.62 J**	**1.6 J**	<5.0	**180 J**	<3.0	<50
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015							**54**	NS	NS	NS	NS	NS	NS	NS	NS		**310**	NS	**14,000**
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**740**	NS	**13,000**
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016							**21 J**	NS	NS	NS	NS	NS	NS	NS	NS		**710**	NS	NS
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS
MW-30[A]	DUP 2	4/22/2016							**18 J**	NS	NS	NS	NS	NS	NS	NS	NS		**650**	NS	NS
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016							**28 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**990**	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017							**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	**12,000**
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	**12,000**
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017							**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	**120**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	**90**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	**850**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	**830**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019	**780**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	**780**	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	**400**	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	**400**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	**410**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.2 J**	**6.8 J**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	**380**	<0.2	**3.3 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015	**400**	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**6.4 J**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	**400**	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015	**400**	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.4 J**	**17 J**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	**400**	<0.2	**3.9 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016	**260**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-042216-AFB-033	4/22/2016	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	**300**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-110416-AEM-031	11/4/2016	**290**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	**240**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-042517-JPM-006	4/25/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-102617-AFB-024	10/26/2017	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	**66**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019	**170**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	**170**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	**72**	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**8.0 J**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	**67**	<0.2	**1.6 J**	<5.0	<0.20	<2.0	**0.68 J**	**3.8 J**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015	**47 J**	<0.2	**2.0 J**	<5.0	<0.20	<2.0	**0.96 J**	**4.6 J**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	**110**	<0.2	**1.7 J**	<5.0	<0.20	<2.0	**0.91 J**	**5.3 J**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-042216-JPM-034	4/22/2016	**130**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016	**120**	NS	NS	NS	NS	NS	NS	NS
MW-30	DUP 2	4/22/2016	**120**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016	**94**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-110416-AEM-032	11/4/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017	**75**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330022-042517-DMS-007	4/25/2017	**96**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017	**75**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nrf}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																			
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																			
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																			
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																			
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017																			
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																			
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																			
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																			
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																			
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																			
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																			
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017																			
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																			
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																			
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	**38**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**920**	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018							**70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**620**	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018							**4.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	**95**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**730**	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	**8.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019							**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019							**310**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**630**	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015							**330**	NS	NS	NS	NS	NS	NS	NS	NS		**490**	NS	<50
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**55 J**	NS	<50
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015							**3,400**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**27,000**
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	**17,000**
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016							**12**	NS	NS	NS	NS	NS	NS	NS	NS		**130**	NS	NS
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016							**14 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110 J**	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017							**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**870**	NS	**18,000**
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150 J**	NS	**18,000**
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018							**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018							**1,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	**6.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140**	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015							**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	<50
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	<50
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015							**920**	NS	NS	NS	NS	NS	NS	NS	NS		**6,300**	NS	**66,000**
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**66,000**
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016							**160**	NS	NS	NS	NS	NS	NS	NS	NS		**670**	NS	NS
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**410**	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016							**780**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017							**1,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	**25,000**
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**810**	NS	**24,000**
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017							**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	NS	
MW-32	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018							**2,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,800**	NS	
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**		
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	**4.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**		
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019							**4,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**780**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-30	W-R2330022-102617-AFB-025	10/26/2017	**70**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018	**110**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	**92**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	**120**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	**52**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	**81**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	**92**	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019	**100**	NS	NS	NS	NS	NS	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	**68**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019	**64**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	**59**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	**240**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-060515-ACN-001	6/5/2015	**240**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	**360**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-041816-JPM-003	4/18/2016	**390**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	**400**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-103116-AEM-003	10/31/2016	**370**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	**410**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-042417-DMS-002	4/24/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	**440**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-102617-DMS-003	10/23/2017	**430**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	**630**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	**400**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	**830**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	**280**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	**590**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	**530**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	**610**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	**590**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	**95**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330017-060515-ACN-002	6/5/2015	**62**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016	**81**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-041816-AEP-004	4/18/2016	**87**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-103116-JPM-004	10/31/2016	**82**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017	**46 J**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-042417-AFB-001	4/24/2017	**29 J**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	**90**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017	**80**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018	**42**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-042318-JPM-004	4/23/2018	**33**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	**81**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	**85**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	**1,600**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-050319-SSR-026	5/3/2019	**60**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019																			
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																			
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																			
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																			
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																			
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019																			
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042418-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																			
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																			
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																			
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																			
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015							**1,000**	NS	NS	NS	NS	NS	NS	NS	NS		**4,500**	NS	<50
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	<50
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015							**860**	NS	NS	NS	NS	NS	NS	NS	NS		**3,400**	NS	**84,000**
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**85,000**
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016							**67**	NS	NS	NS	NS	NS	NS	NS	NS		**2,700**	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	**3.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016							**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017							**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	**96,000**
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**98,000**
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017							**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018							**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018							**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	**3.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	**6.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015							**1,700**	**0.24 J**	**4.2 J**	**120**	<1.0	<1.0	**2.6 J**	**2.2 J**	**5.0**		**2,800**	**2.4 J**	<50
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**20 J**	**0.23 J**	**3.0 J**	**110**	<1.0	<1.0	**1.3 J**	**1.0 J**	**0.75 J**	<0.005	**120 J**	<3.0	<50
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015							**28 J**	NS	NS	NS	NS	NS	NS	NS	NS		**1,000**	NS	**20,000**
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	**19,000**
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016							**120**	NS	NS	NS	NS	NS	NS	NS	NS		**1,200**	NS	NS
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**850**	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017							**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**24,000**
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	**24,000**
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017							**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018							**42**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	**5.2**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019							**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019							**450**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**320**	NS	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016							**50 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190 J**	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	8 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017							**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	**15,000**
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	**13,000**
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019	**88**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	**91**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	**120**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-060515-ACN-003	6/5/2015	**80**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	**81**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	**78**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-103116-JPM-005	10/31/2016	**64**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-042417-DMS-003	4/24/2017	**89**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	**72**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	**68**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	**75**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019	**69**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	**70**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	**320**	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**3.3 J**	**13 J**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	**270**	<0.2	**3.6 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016	**300**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-041916-JPM-013	4/19/2016	**290**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	**520**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-110416-AEM-030	11/4/2016	**490**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017	**230**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-042417-DMS-004	4/24/2017	**240**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	**290**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-102617-DMS-006	10/23/2017	**290**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018	**280**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	**280**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	**420**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	**460**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019	**270**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	**240**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	**16 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	**6.3 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	**29 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-050117-AFB-036	5/1/2017	**1.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	**12**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018																			
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018																			
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0		<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017																			
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.37 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018																			
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018																			
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017																			
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.28 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.21 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.77 J**	<5.0	<5.0	<10	**0.34 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.25 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																				Metals	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.6	NS	
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018							**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**210**	NS	NS
MW-35	W-R2330024-042318-DMS-001	4/23/2018	NS	NS	NS	NS	NS	NS	**4.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018							**73**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29**	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019							**460**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019							**8.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016							**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	**4.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016							**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017							**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	**15,000**
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	**13,000**
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017							**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**450**	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018							**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**580**	NS	NS
MW-36	W-R2330024-042318-DMS-002	4/23/2018	NS	NS	NS	NS	NS	NS	**6.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018							**940**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	**13.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**37**	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019							**400.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**900**	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	**8.10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019							**9.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015							**150**	**0.15 J**	**9.1**	**24 J**	<1.0	**0.18 J**	**0.41 J**	**0.86 J**	**1.6 J**		**750**	**1.3 J**	<50
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	**0.13 J**	<5.0	<5.0	<2.0	<5.0	<5.0	<50	**0.15 J**	**2.8 J**	**21 J**	<1.0	**0.23 J**	**0.16 J**	**0.60 J**	**1.1 J**	<5.0	**43 J**	<3.0	<50
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015							**8.6 J**	**NS**	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**12,000**
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	**12,000**
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016							**22 J**	NS	NS	NS	NS	NS	NS	NS	NS		**440**	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	**33 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016							**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140 J**	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130 J**	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017							**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	**12,000**
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	**13,000**
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017							<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**420**	NS	NS
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**440**	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018							<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018							**6.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	NS	NS	NS	**80**	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**280**	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013							**120,000**	**2.8 J**	**300**	**730 J**	**5.9 J**	**4.0 J**	**240**	**140 J**	**510**		**310,000**	**250**	<50
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.37 J**	<2.0	**59 J**	<1.0	**0.071 J**	<10	**8.0 J**	**2.3 J**	<0.005	**71 J**	**0.072 J**	<50
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013							**2,100**	**0.54 J**	**2.1 J**	**65 J**	**0.12 J**	**0.20 J**	**4.6 J**	**9.6 J**	**7.4**		**3,500**	**4.0**	<50
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.37 J**	<2.0	**49 J**	<1.0	**0.064 J**	<10	**5.4 J**	**1.9 J**	<0.005	**150 J**	**0.11 J**	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-35	W-R2330022-102317-DMS-002	10/23/2017	**7.6**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-DMS-001	4/23/2018	**18**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-DMS-001	4/23/2018	**3.4 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	**27**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	**8.6**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	**81**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	**3.4 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019	**4.1 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	**160**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	**150**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-050117-AFB-037	5/1/2017	**140**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	**200**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-042318-DMS-002	4/23/2018	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-042318-DMS-002	4/23/2018	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	**270**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	**49**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	**350**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	**120**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	**210**	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.76 J**	**7.8 J**
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	**72**	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	<50
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	**110**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	**100**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	**72**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	**68**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	**610**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	**130**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-102617-AFB-021	10/26/2017	**800**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-102617-AFB-021	10/26/2017	**830**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	**96**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	**98**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	**34**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	**21**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	**84**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	**69**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019	**65**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	**56**	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	**5,300**	**0.98**	**410**	**13 J**	**0.78 J**	**7.6 J**	**380**	**1,500**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	**610**	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.20 J**	**4.0 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	**800**	<0.2	**22**	**0.68 J**	<0.20	**0.35 J**	**7.3**	**22 J**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	**470**	<0.2	**12 J**	**0.68 J**	<0.20	<2.0	**0.19 J**	**4.8 J**

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nrf}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.31 J**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	<25	<1.0	<1.0	<50	<50	**6.7**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	**1.4**	**2.5 J**	<1.0	**0.44 J**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**0.72 J**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<25	<1.0	<1.0	<50	<50	**2.4**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			
SB-24	W-R2330009-120613-RD-004	12/6/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.29 J**
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																			
SB-25	W-R2330009-120613-RD-005	12/6/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.48 J**
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<25	<1.0	<1.0	<50	**3.2 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.28 J**
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																			
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<25	<1.0	<1.0	<50	**6.1 J**	<1.0	<1.0	**0.53 J**	<1.0	**2.9 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																			
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	**4.3 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																			
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<25	<1.0	<1.0	<50	**3.6 J**	<1.0	<1.0	**0.53 J**	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																			
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<25	**1.3**	**2.6**	<50	**4.7 J**	**12.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	**0.84 J**	<5.0	<5.0	**14.0**	**6.0**	<1.0	**39**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																			
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<25	<1.0	**0.98 J**	<50	<50	**21.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	**5.5 J**	<5.0	<5.0	**0.29 J**	**2.0 J**	<1.0	**0.33 J**
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																			
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																			
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<25	<1.0	<1.0	<50	<50	**1.1**	<1.0	<5.0	**1.4**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	**1.3 J**	<1.0	**0.27 J**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																			
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<25	<1.0	<1.0	<50	**3.9 J**	**0.71 J**	<1.0	**0.44 J**	**1.2**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	**0.62 J**	<1.0	**0.29 J**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																			
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																			
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.38 J**
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<25	<1.0	<1.0	<50	**14 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**6.2**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-19	W-2330012-040114-ACN-004	4/1/2014	<25	<1.0	<1.0	<50	**3.3 J**	**0.36 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	**1.1**	**0.62 J**
SB-20	W-2330012-040114-ACN-005	4/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.25 J**
SB-35	W-2330012-040114-ACN-006	4/1/2014	<25	<1.0	**1.5**	<50	**3.3 J**	**6.1**	<1.0	<5.0	**2.0**	<5.0	NS	<1.0	**1.5**	<5.0	<5.0	**0.18 J**	**1.4 J**	**1.1**	**0.25 J**
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<25	<1.0	<1.0	<50	**7.1 J**	**2.5**	<1.0	<5.0	**1.2**	<5.0	NS	<1.0	<10	<5.0	<5.0	**0.84 J**	**1.9 J**	<1.0	**0.54 J**
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<25	<1.0	<1.0	<50	**7.8 J**	**2.7**	<1.0	<5.0	**1.4**	<5.0	NS	<1.0	**1.4 J**	<5.0	<5.0	**0.86 J**	**2.0 J**	<1.0	**0.52 J**
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<25	<1.0	<1.0	<50	**6.9 J**	**2.6**	<1.0	**1.3 J**	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	**0.84 J**	<5.0	<1.0	**0.82 J**
SB-38	W-R2330012-040314-ACN-010	4/3/2014	**2.2 J**	<1.0	**0.98 J**	<50	**16 J**	**2.8**	<1.0	**1.4 J**	**0.96 J**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	**1.6 J**	<1.0	**0.38 J**
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<25	<1.0	**0.91 J**	<50	**11 J**	**17**	<1.0	**1.6 J**	**90**	<5.0	NS	<1.0	**2.0 J**	<5.0	<5.0	<1.0	**2.0 J**	<1.0	**0.30 J**
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.30 J**
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<25	<1.0	<1.0	<50	<50	**0.31 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.49 J**
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.35 J**
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.56 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.23 J**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	**4.2**	<10	<10	**0.19 J**	<10	**0.41 J**	<5.0	<10	**1.6 J**	**0.54 J**	**0.22 J**	**0.79 J**	<5.0	<10	**0.41 J**	<5.0	**0.35 J**	<5.0	<5.0
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	**0.12 J**	<5.0	**0.51 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.14 J**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			
SB-24	W-R2330009-120613-RD-004	12/6/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																			
SB-25	W-R2330009-120613-RD-005	12/6/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.16 J**
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																			
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.26 J**	<5.0	<5.0	<10	**0.28 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.22 J**
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																			
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.29 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.19 J**
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																			
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.18 J**
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																			
SB-29	W-R2330009-121213-AJL-014	12/12/2013	**74.0**	<10	**0.67 J**	**1.6 J**	**0.46 J**	**2.0 J**	<5.0	<10	<5.0	**6.0 J**	**1.0 J**	**1.2 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.26 J**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																			
SB-30	W-R2330009-121213-AJL-016	12/12/2013	**1.0 J**	<10	**3.1 J**	**2.9 J**	<10	<10	<5.0	<10	<5.0	**1.2 J**	<5.0	**0.92 J**	<5.0	<10	**0.64 J**	<5.0	<5.0	<5.0	**0.21 J**
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																			
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																			
SB-32	W-R2330009-121213-AJL-015	12/12/2013	**1.0 J**	<10	<10	**1.2 J**	<10	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	**0.85 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.37 J**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																			
SB-33	W-R2330009-121213-AJL-017	12/12/2013	**1.3 J**	<10	<10	**0.29 J**	<10	**0.40 J**	<5.0	<10	**0.59 J**	**0.39 J**	<5.0	**0.73 J**	<5.0	<10	<4.0	<5.0	**0.37 J**	<5.0	**0.26 J**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																			
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																			
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.69 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-19	W-2330012-040114-ACN-004	4/1/2014	**1.0 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-20	W-2330012-040114-ACN-005	4/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-35	W-2330012-040114-ACN-006	4/1/2014	**1.9 J**	<10	<10	**2.4 J**	<10	**1.6 J**	<5.0	<10	<5.0	**1.7 J**	<5.0	<10	<5.0	**1.9 J**	<4.0	<5.0	<5.0	<5.0	<5.0
SB-36	W-R2330012-040314-ACN-007	4/3/2014	**2.8 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	**2.8 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-37	W-R2330012-040314-ACN-009	4/3/2014	**1.7 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-38	W-R2330012-040314-ACN-010	4/3/2014	**1.5 J**	<10	<10	**1.5 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-39	W-R2330012-040314-ACN-011	4/3/2014	**1.5 J**	<10	<10	**1.2 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																							
																					Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																					
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013							790	0.32 J	2.0 J	33 J	<1.0	0.052 J	5.2 J	1.5 J	2.9 J		1,600	0.79 J	<50
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	6.9 J	0.43 J	0.77 J	34 J	<1.0	<1.0	<10	2.2 J	2.0 J	2.3 J	770	<3.0	<50
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013							38,000 J	13 J	37 J	2,900	1.7 J	11	75 J	38 J	320		73,000	1,700	<50
SB-21	W-R2330009-120513-RD-001	12/5/2013	<1.0	0.94 J	<5.0	<2.0	<5.0	0.44 J	24 J	0.97 J	2.3 J	2,000	<1.0	<1.0	1.7 J	5.5 J	2.3 J	6.9	13,000	0.49 J	<50
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013							1,900	2.2 J	<5.0	1000	<1.0	<1.0	8.1 J	4.3 J	40 J		16,000	59	<50
SB-22	W-R2330009-120513-RD-002	12/5/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	10 J	0.99 J	2.0 J	960	<1.0	<1.0	1.1 J	3.9 J	2.8 J	3.6 J	12,000	0.21 J	<50
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013							3,200	2.8 J	72	880 J	1.8 J	<1.0	130	40 J	150		8,600	86	<50
SB-23	W-R2330009-120513-RD-003	12/5/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	17 J	0.39 J	23	690	<1.0	<1.0	2.3 J	3.0 J	1.5 J	31	12,000	0.084 J	<50
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013							6,700	2.6 J	130	860 J	3.5 J	2.9 J	130	77 J	220		190,000	150	<50
SB-24	W-R2330009-120613-RD-004	12/6/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	52 J	0.60 J	6.7	410	<1.0	<1.0	<10	2.5 J	2.5 J	9.2	4,700	<3.0	<50
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013							250,000	2.6 J	470	1300	9.8 J	13	540	270	700		520,000	440	<50
SB-25	W-R2330009-120613-RD-005	12/6/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	930	4.3	11	84 J	<1.0	0.10 J	1.4 J	4.0 J	1.5 J	46.0	1,100	0.63 J	<50
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013							15,000	5.0 J	610	970 J	12	17	1,000	310	1,100		700,000	640	<50
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	60	22	8.6	57 J	<1.0	<1.0	<10	2.8 J	1.4 J	1.0 J	1,900	0.11 J	<50
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013							62,000	2.5 J	86	610 J	3.2 J	3.2 J	290	57 J	220		140,000	100	<50
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	22 J	0.56 J	2.1 J	160	<1.0	<1.0	<10	5.3 J	2.8 J	1.5 J	7,400	<3.0	<50
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013							17,000	1.1 J	18 J	300 J	<1.0	0.61 J	59 J	13 J	46		38,000	19 J	<50
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	11 J	0.48 J	2.0 J	150	<1.0	<1.0	<10	4.7 J	2.4 J	1.3 J	4,900	<3.0	<50
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013							95,000	3.2 J	210	550 J	5.2 J	5.2 J	350	85 J	330		230,000	200	<50
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	31 J	1.8 J	10	110	<1.0	<1.0	<10	2.8 J	2.1 J	<0.005	1,400	<3.0	<50
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013							7,600	4.1 J	10 J	2,100	<1.0	2.8 J	71 J	12 J	90		51,000	330	<50
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<1.0	0.57 J	1.3 J	<2.0	<5.0	0.36 J	25 J	0.83 J	<5.0	1,700	<1.0	<1.0	3.1 J	5.2 J	6.2 J	4.2 J	22,000	<3.0	<50
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013							7,300	3.1 J	6.8 J	2,700	<1.0	2.4 J	22 J	7.2 J	58		41,000	940	<50
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<1.0	1.1 J	2.2 J	<2.0	<5.0	0.40 J	18 J	0.43 J	<5.0	2,100	<1.0	<1.0	<10	3.6 J	<4.0	3.9 J	29,000	1.1 J	<50
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013							2,000	0.34 J	5.7 J	84 J	0.1 J	<1.0	14	2.5 J	14		8,400	11	<50
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	60 J	0.46 J	23 J	520 J	<10	<10	4.3 J	5.9 J	<40	2.1 J	21,000	<3.0	<50
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013							1,600	1.7 J	<5.0	1,600	<1.0	2.4 J	12 J	6.2 J	31 J		30,000	120	<50
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<1.0	0.17 J	1.0 J	<2.0	<5.0	<5.0	21 J	0.53 J	<5.0	1,500	<1.0	<1.0	4.7 J	5.4 J	<4.0	3.7 J	26,000	<3.0	<50
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013							45,000	95	66	3,400	2.0 J	42	320	51 J	1,100		170,000	3,200	<50
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<1.0	<5.0	0.20 J	<2.0	<5.0	<5.0	30 J	1.6 J	<5.0	1,500	<1.0	<1.0	3.5 J	6.8 J	<4.0	60	23,000	<3.0	<50
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013							2,000	0.34 J	5.7	84 J	0.10 J	<1.0	14	2.5 J	14		8,400	11	<50
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	60 J	0.46 J	23 J	520 J	<1.0	<1.0	4.3 J	5.9 J	<4.0	2.1 J	21,000	<3.0	<50
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013							11,000	0.97 J	12	150	0.49 J	0.26 J	59	11 J	50		31,000	77	<50
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	75 J	0.89 J	9.3 J	700 J	<1.0	<1.0	<10	4.6 J	<4.0	4.5 J	38,000	<3.0	<50
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	35 J	1.2 J	44	540	<1.0	0.12 J	0.97 J	4.1 J	0.76 J	<0.005	11,000	<3.0	<50
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	38 J	0.16 J	5.7	370	<1.0	0.046 J	0.65 J	3.9 J	<4.0	<0.005	7,000	<3.0	<50
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	380	0.33 J	6.2	58 J	<1.0	0.053 J	1.4 J	3.9 J	1.5 J	<0.005	13,000	0.44 J	<50
SB-19	W-2330012-040114-ACN-004	4/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	39 J	0.46 J	5.3	140	<1.0	<1.0	<10	5.8 J	0.54 J	2.1	2,100	0.081 J	<50
SB-20	W-2330012-040114-ACN-005	4/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	300	0.19 J	<5.0	21 J	<1.0	<1.0	<10	1.8 J	1.2 J	1.3	490	0.13 J	<50
SB-35	W-2330012-040114-ACN-006	4/1/2014	<1.0	1.3 J	1.9 J	1.9 J	<5.0	<5.0	43 J	0.81 J	4.3 J	1,000	<1.0	<1.0	3.6 J	3.2 J	<4.0	2.4 J	25,000	0.43 J	<50
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	160 J	0.75 J	4.3 J	2,800	<1.0	<1.0	1.6 J	6.4 J	<4.0	2.5 J	27,000	0.47 J	<50
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	130 J	0.43 J	4.4 J	2,600	<1.0	<1.0	1.4 J	6.6 J	<4.0	6.3 J	27,000	0.41 J	<50
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	66 J	1.5 J	24 J	640	<1.0	<1.0	3.5 J	8.8 J	<4.0	9.5 J	16,000	3.1 J	<50
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	13 J	2.5 J	14 J	380	<1.0	<1.0	<10	6.2 J	<4.0	5.2 J	2,200	0.47 J	<50
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<1.0	<5.0	0.80 J	<2.0	<5.0	<5.0	75	0.61 J	2.3 J	2,100	<1.0	<1.0	4.4 J	4.6 J	2.3 J	6.6 J	25,000	1.5 J	<50
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	38 J	0.40 J	6.4 J	100 J	<1.0	<1.0	1.8 J	3.1 J	2.7 J	<0.005	5,100	1.2 J	<50
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	39 J	0.43 J	2.8 J	160	<1.0	<1.0	0.95 J	6.7 J	2.4 J	<0.005	3,200	0.18 J	<50
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	170 J	1.4 J	<5.0	69 J	<1.0	<1.0	<10	7.7 J	6.1 J	<0.005	280 J	<3.0	<50
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	21 J	<2.0	<5.0	9.3 J	<1.0	<1.0	<10	0.17 J	0.65 J	2.3 J	31 J	0.62 J	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013	53	<0.2	10 J	0.77 J	<0.20	<2.0	2.4 J	8.1 J
SB-15	W-R2330009-120913-AJL-006	12/9/2013	53	<0.2	8.5 J	0.84 J	<0.20	<2.0	0.17 J	3.0 J
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013	1,800	0.39	86 J	<5.0	2.7	<2.0	86	2,200
SB-21	W-R2330009-120513-RD-001	12/5/2013	530	<0.2	10 J	<5.0	<0.20	1.1 J	1.3 J	26 J
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013	550	<0.2	20 J	<5.0	<0.20	<2.0	4.0 J	210 J
SB-22	W-R2330009-120513-RD-002	12/5/2013	560	<0.2	16 J	<5.0	<0.20	0.081 J	0.77 J	24 J
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013	1,600	0.12 J	130 J	12 J	<0.20	0.96 J	9.3	420 J
SB-23	W-R2330009-120513-RD-003	12/5/2013	70	<0.2	9.1 J	0.76 J	<0.20	<2.0	1.7 J	5.6 J
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	4,100	0.30	210	9.8 J	0.53 J	2.4 J	86	580
SB-24	W-R2330009-120613-RD-004	12/6/2013	360	<0.2	14 J	0.73 J	<0.20	<2.0	0.38 J	4.8 J
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013	9,200	0.95	1,100	27 J	1.7 J	6.3 J	590	1,700
SB-25	W-R2330009-120613-RD-005	12/6/2013	530	<0.2	5.0 J	<5.0	<0.20	0.26 J	3.2 J	4.5 J
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013	14,000	0.51	1,100	47 J	2.5	13 J	660	2,900
SB-26	W-R2330009-121013-AJL-009	12/10/2013	92	<0.2	14 J	0.75 J	<0.20	<2.0	0.67 J	14 J
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013	2,800	<0.2	210	9.4 J	<0.20	2.3 J	180	680
SB-27	W-R2330009-121113-AJL-010	12/11/2013	310	<0.2	25	<5.0	<0.20	<2.0	0.46 J	19 J
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013	730	<0.2	53 J	<5.0	<0.20	<2.0	46	140 J
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	300	<0.2	24	<5.0	<0.20	<2.0	<4.0	18 J
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013	4,100	0.23	310	13 J	0.75 J	3.3 J	320	800
SB-28	W-R2330009-121113-AJL-012	12/11/2013	180	<0.2	15 J	<5.0	<0.20	<2.0	0.49 J	4.2 J
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013	980	0.13	51 J	<5.0	<0.20	<2.0	24 J	470 J
SB-29	W-R2330009-121213-AJL-014	12/12/2013	580	<0.2	12 J	<5.0	<0.20	<2.0	1.7 J	18 J
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013	380 J	0.15	22 J	<5.0	<0.20	<2.0	19 J	950
SB-30	W-R2330009-121213-AJL-016	12/12/2013	260 J	<0.2	8.2 J	<5.0	<0.20	<2.0	<4.0	<500
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013	130	0.1	9.7 J	<5.0	<2.0	<2.0	6.6	44
SB-31	W-R2330009-121213-AJL-018	12/12/2013	170 J	<0.2	19 J	<5.0	<2.0	<2.0	<4.0	<27
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013	290 J	<0.2	31 J	<5.0	<0.20	<2.0	2.4 J	210 J
SB-32	W-R2330009-121213-AJL-015	12/12/2013	270 J	<0.2	19 J	<5.0	<0.20	<2.0	2.4 J	16 J
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013	2,200	2.2	320	<5.0	16	<2.0	90	9,900
SB-33	W-R2330009-121213-AJL-017	12/12/2013	420 J	<0.2	16 J	<5.0	<0.20	<2.0	2.3 J	61 J
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013	130	0.11	9.7 J	<5.0	<2.0	<2.0	6.6	44 J
SB-34	W-R2330009-121313-AJL-018	12/13/2013	170 J	<0.2	19 J	<5.0	<2.0	<2.0	<4.0	27 J
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013	610	0.43	40	2.6 J	0.18 J	0.37 J	30	140
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	1,500	<0.2	26 J	<5.0	<2.0	<2.0	1.7 J	34 J
SB-16	W-R2330012-033114-ACN-001	3/31/2014	270	<0.2	31	0.98 J	<0.2	<2.0	0.86 J	360
SB-17	W-R2330012-033114-ACN-002	3/31/2014	390	<0.2	7.5 J	1.7 J	<0.2	<2.0	0.69 J	19 J
SB-18	W-R2330012-033114-ACN-003	3/31/2014	660	<0.2	11 J	<5.0	<0.2	<2.0	1.4 J	140
SB-19	W-2330012-040114-ACN-004	4/1/2014	930	<0.2	18 J	0.84 J	<0.20	<2.0	0.46 J	62
SB-20	W-2330012-040114-ACN-005	4/1/2014	98	<0.2	2.6 J	0.73 J	<0.20	<2.0	1.3 J	2.8 J
SB-35	W-2330012-040114-ACN-006	4/1/2014	550	<0.2	10 J	<5.0	<0.20	<2.0	2.2 J	16 J
SB-36	W-R2330012-040314-ACN-007	4/3/2014	260	<0.2	9.7 J	<5.0	<0.20	<2.0	3.3 J	2.9 J
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	250 J	<0.2	9.6 J	<5.0	<0.20	<2.0	3.3 J	2.5 J
SB-37	W-R2330012-040314-ACN-009	4/3/2014	530	<0.2	31 J	<5.0	<0.20	<2.0	1.1 J	340
SB-38	W-R2330012-040314-ACN-010	4/3/2014	430	<0.2	15 J	<5.0	<0.20	<2.0	<4.0	21 J
SB-39	W-R2330012-040314-ACN-011	4/3/2014	300	<0.2	11 J	1.1 J	<0.20	1.5 J	1.1 J	6.9 J
SB-46	W-R2330012-041114-ACN-015	4/11/2014	960	<0.2	9.6 J	<5.0	<0.20	<2.0	<4.0	7.8 J
SB-47	W-R2330012-041114-ACN-016	4/11/2014	1,200	<0.2	17 J	7.2	<0.2	<2.0	0.59 J	9.0 J
SB-48	W-R2330012-040314-ACN-013	4/9/2014	410	<0.2	20 J	5.4 J	<0.20	<2.0	2.4 J	21J
SB-49	W-R2330012-040314-ACN-014	4/9/2014	59	<0.2	1.4 J	<5.0	<0.20	<2.0	<4.0	1.3 J

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<25	<1.0	<1.0	<50	<50	**0.29 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.39 J**
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<25	<1.0	<1.0	**1.4 J**	**7.5 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<25	<1.0	<1.0	<50	**4.0 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<25	<1.0	<1.0	<50	**3.6 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<120	<1.0	<1.0	<50	<50	<5.0	<1.0	<5.0	<5.0	<25	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<120	<1.0	<1.0	<50	**3.4 J**	<5.0	<1.0	<5.0	<5.0	<25	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<25	<1.0	<1.0	<50	**120**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	**6.2 J**	<1.0	<1.0	<50	**4.4 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																			
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	**2.8 J**	<1.0	<1.0	<50	**0.79 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	**1.3**	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																			
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																			
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																			
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.4 J**
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																			
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																			
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																			
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																			
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	**7.2**	<5.0	<1.0	<5.0	NS	**15**	<10	**3.4 J**	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																			
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	**2.2**	<5.0	<1.0	<5.0	NS	**5.7**	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																			
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																			
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																			
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<25	<1.0	<1.0	<50	**5.1 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																			
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																			
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	3+ Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.3 J**
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<3.0	<80	<10	<5.0	<10	<10	<80	<80	<40	<5.0	<5.0	<10	<5.0	<80	<4.0	<5.0	<40	<40	<40
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<0.84	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<3.0	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.89 J**	**0.88 J**	**1.7 J**
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																			
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																			
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	**0.16 J**
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																			
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																			
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																			
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																			
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																			
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																			
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																			
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																			
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																			
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																			
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																			
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																			
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																							
									Metals														
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**74 J**	**0.43 J**	<5.0	**44 J**	<1.0	**0.58 J**	<10	**2.6 J**	<4.0	**2.6 J**	**200 J**	**14 J**	<50
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**25 J**	**0.40 J**	<5.0	**27 J**	<1.0	<1.0	**1.1 J**	**1.5 J**	**4.0**	<0.005	**50 J**	**0.069 J**	<50
SW-1	W-R2330012-041514-ACN-017	4/15/2014	**1.6 H**	<5.0	<5.0	<2.0	**0.69 H**	<5.0	**16 J**	**1.3 J**	<5.0	**34 J**	<1.0	**0.4 J**	**4.3 J**	**1.7 J**	**36 J**	**110**	**33 J**	**2.3 J**	<50
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.4 J**	**1.1 J**	**0.93 J**	**93 J**	<1.0	**0.063 J**	**0.44 J**	**0.55 J**	**5.2 J**	**0.0012 J**	**170 J**	**0.25 J**	<50
SW-2	W-R2330012-041514-ACN-019	4/15/2014	**1.3 H**	<5.0	<5.0	<2.0	<5.0	<5.0	<250	**1.4 J**	<25	**78 J**	<1.0	**0.23 J**	<10	**1.3 J**	**5.9 J**	<0.005	**250 J**	**0.77 J**	<50
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<1.0	<40	<5.0	<2.0	<5.0	<5.0	**26 J**	**0.43 J**	**4.6 J**	**340**	<1.0	**0.046 J**	**1.2 J**	**3.4 J**	**13 J**	<0.005	**4,100**	**1.7 J**	<50
SW-3	W-R2330012-041514-ACN-018	4/15/2014	**1.3 H**	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.52 J**	<5.0	**150 J**	<1.0	<1.0	<10	**0.93 J**	**5.7 J**	<0.005	<100	**2.6 J**	<50
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	**1500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**45 J**	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.9 J**	<2.0	<5.0	**0.59 J**	<1.0	<1.0	**0.14 J**	**0.26 J**	**0.70 J**	<0.005	**24 J**	**0.27 J**	<50
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.4 J**	**0.11 J**	<5.0	**3.1 J**	<1.0	<1.0	**0.59 J**	**0.79 J**	**0.57 J**	<0.005	**23 J**	**0.0053 J**	<50
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013							**3.4 J**	<2.0	<5.0	**2.7 J**	<1.0	**0.049 J**	**0.28 J**	<20	**1.5 J**		**26 J**	**0.053 J**	<50
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**1.7 J**	**0.080 J**	<5.0	**2.2 J**	<1.0	<1.0	<10	**0.46 J**	**1.1 J**	<0.005	**21 J**	<3.0	<50
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013							**7.0 J**	<2.0	<5.0	**0.085 J**	<1.0	<1.0	<10	<20	**0.72 J**		**12 J**	<3.0	<50
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.7 J**	<2.0	<5.0	**0.11 J**	<1.0	<1.0	<10	**0.14 J**	<4.0	<0.005	**10 J**	<3.0	<50
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014							**51**	**0.094 J**	<5.0	**14 J**	**0.15 J**	<1.0	<1.0	**0.17 J**	**65 J**		**17 J**	**0.16 J**	<50
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**150**	**0.48 J**	<5.0	**7.5 J**	**91 J**	<1.0	<1.0	**0.076 J**	**53 J**	**1.4 J**	**29 J**	**0.037 J**	<50
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014							**5.0 J**	<2.0	<5.0	**0.28 J**	<1.0	<1.0	<1.0	<20	**0.56 J**		**8.4 J**	**0.054 J**	<50
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**9.4 J**	<2.0	<5.0	**0.35 J**	<1.0	<1.0	<1.0	<20	<4.0	<0.005	**13 J**	<3.0	<50
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014							**3.3 J**	<2.0	<5.0	<100	<1.0	<1.0	<1.0	<20	**6.3**		<200	<3.0	<50
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	<2.0	<5.0	<100	<1.0	**0.027 J**	<10	<20	**6.3**	<5.0	<200	<3.0	<50
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014							**3.6 J**	<2.0	<5.0	**0.67 J**	<1.0	<1.0	<10	<20	**2.3 J**		**17 J**	<3.0	<50
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.2 J**	<2.0	<5.0	**0.58 J**	<1.0	<1.0	<10	<20	**2.2 J**	<5.0	<200	<3.0	<50
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014							**3.8 J**	<2.0	<5.0	<100	<1.0	**0.091 J**	<10	<20	**6.2**		<200	<3.0	<50
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.2 J**	<2.0	<5.0	<100	<1.0	**0.27 J**	**0.37 J**	<20	**5.9**	<5.0	**21 J**	<3.0	<50
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014							**23 J**	**0.15 J**	<5.0	**16 J**	<1.0	**0.032 J**	**0.30 J**	<20	**170**		**33 J**	<3.0	<50
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	<5.0	**15 J**	<1.0	**0.034 J**	<10	<20	**160**	<5.0	**27 J**	<3.0	<50
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014							<50	<2.0	<5.0	**1.4 J**	<1.0	<1.0	<10	<20	<4.0		<200	<3.0	<50
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	**0.45 J**	<1.0	<1.0	**0.13 J**	<20	<4.0	<5.0	<200	<3.0	<50
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015							**12 J**	<2.0	<5.0	**6.8 J**	<1.0	<1.0	<10	**0.21 J**	**83**		<200	<3.0	<50
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	<50	<2.0	<5.0	<100	<1.0	<1.0	<10	<20	**2.0 J**	<5.0	<200	<3.0	<50
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015							<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**	<20	**1.1 J**		<200	<3.0	<50
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100	<1.0	<1.0	**0.19 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015							<50	<2.0	<5.0	<100	<1.0	**0.027 J**	**0.17 J**	<20	**1.0 J**		<200	<3.0	<50
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100	<1.0	<1.0	**0.19 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015							**21 J**	<2.0	<5.0	**3.3 J**	<1.0	<1.0	<10	<20	**1.4 J**		**22 J**	<3.0	<50
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	<5.0	**1.5 J**	<1.0	<1.0	<10	<20	**1.3 J**	<5.0	<200	<3.0	<50
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015							<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**	<20	**1.4 J**		**43 J**	<3.0	<50
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-ng}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
SB-50	W-R2330012-040314-ACN-012	4/9/2014	**110 J**	<0.2	**4.3 J**	<5.0	<0.20	<2.0	<4.0	**8.0 J**
SW-1	W-R2330009-050313-MJF-015	5/3/2013	**22 J**	<0.2	**6.4 J**	<5.0	<0.20	<2.0	<4.0	**1.9 J**
SW-1	W-R2330012-041514-ACN-017	4/15/2014	**51 J**	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.2 J**	**38 J**
SW-2	W-R2330009-050313-MJF-014	5/3/2013	**69**	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**0.28 J**	**10 J**
SW-2	W-R2330012-041514-ACN-019	4/15/2014	**460 J**	<0.2	**5.2 J**	<5.0	<0.20	<2.0	<4.0	**80 J**
SW-3	W-R2330009-051013-MJF-016	5/10/2013	**880**	<0.2	**13 J**	<50	<0.20	**0.093 J**	**1.1 J**	**51**
SW-3	W-R2330012-041514-ACN-018	4/15/2014	**6.2 J**	<0.2	**4.2 J**	<5.0	<0.20	<2.0	<4.0	**8.8 J**
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	**180**	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	**38**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	**1.5 J**	<0.2	**0.42 J**	**0.48 J**	<0.025	<2.0	<0.30	**15 J**
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	**2.3 J**	<0.2	**0.6 J**	<5.0	<0.20	<2.0	<4.0	**1.8 J**
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013	**0.38 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**4.1 J**
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	**1.0 J**	<0.2	**0.46 J**	<5.0	<0.20	<2.0	<4.0	**3.1 J**
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013	**0.13 J**	<0.2	<20	<5.0	<0.20	<2.0	**0.3 J**	**2.2 J**
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	**0.31 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**1.7 J**
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014	**0.17 J**	<0.2	**1.3 J**	<5.0	<0.20	<2.0	<4.0	**5.3 J**
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	**1.2 J**	<0.2	**0.57 J**	<5.0	<0.20	<2.0	<4.0	**2.1 J**
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014	**0.25 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**0.57 J**
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	**0.39 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**0.87 J**
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014	**0.53 J**	<0.2	**0.63 J**	<5.0	<0.20	<2.0	<4.0	**3.7 J**
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	**0.22 J**	<0.2	**0.67 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014	**0.28 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	**0.23 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	**0.24 J**	<0.2	**0.68 J**	<5.0	**0.026 J**	<2.0	<4.0	**3.5 J**
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014	**3.5 J**	<0.2	**1.1 J**	<5.0	**0.043 J**	<2.0	<4.0	**14 J**
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	**3.2 J**	<0.2	**1.0 J**	<5.0	**0.022 J**	<2.0	**0.54 J**	**14 J**
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015	**8.1 J**	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	**8.6 J**
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015	**0.26 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015	**0.20 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<50	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015																			
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015																			
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015																			
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017																			
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017																			
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017																			
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017																			
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017																			
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017																			
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017																			
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017																			
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017																			
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017																			
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017																			
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017																			
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018																			
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018																			
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018																			
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018																			
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015																			
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015																			
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015																			
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017																			
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017																			
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017																			
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017																			
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017																			
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017																			
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017																			
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017																			
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017																			
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017																			
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017																			
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017																			
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018																			
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018																			
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018																			
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018																			
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018																			
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018																			
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018																			
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018																			
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																				Metals	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015							<50	NS	NS	NS	NS	NS	NS	NS	NS		**33 J**	NS	<50
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	**1.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	**66 J**
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015							**2.7 J**	NS	NS	NS	NS	NS	NS	NS	NS		**100 J**	NS	<50
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	<50
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015							**1.8 J**	NS	NS	NS	NS	NS	NS	NS	NS		<200	NS	<50
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<200	NS	<50
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	**67**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**88 J**	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**98 J**	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**460**	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	**48**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	**89**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017							**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	**130 J**
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	**250 J**
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017							**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**52 J**	NS	**59 J**
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93 J**	NS	**920**
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017							**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**58 J**	NS	**75 J**
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	**31 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**100 J**	NS	**190 J**
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017							**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**56 J**	NS	**150 J**
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140 J**	NS	**200 J**
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017							**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**66 J**	NS	**190 J**
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**81 J**	NS	**150 J**
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017							**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**70 J**	NS	**170 J**
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**30 J**	NS	**120 J**
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017							**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017							**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**90**	NS	
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017							**9.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**38 J**	NS	
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017							**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**91**	NS	
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32 J**	NS	
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018							**5.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**30 J**		
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**42 J**		
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018							**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018							**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32 J**	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018							**3.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018							<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018							**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5000**	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018							**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4200**	NS	NS
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**700**	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018							**5.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	**4.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**39**	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018							**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	**7.9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24**	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018							**9.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**35**	NS	NS
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	**5.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	**1.4 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	**6.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	**2.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-006	10/31/2016	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEP-011	11/1/2016	**3.1**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	WR2330021-103116-AEM-020	11/2/2016	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	**7.4 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017	**1.1 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	**4.3 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017	**2.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	**7.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017	**2.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	**8.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017	**2.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	**2.0 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	**0.88 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017	**1.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017	**0.79 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017	**1.8 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017	**2.3 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017	**7.00**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018	**1.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018	**74**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018	**64**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018	**460**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	**2.5**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018	**230**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	**0.33**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018	**3.3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	**1.1**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018	**0.61**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	**0.50**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																			
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																		
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019																			

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																										
																								Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019							**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019	**2.8 J**	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019																			
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019																			
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019																			
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019																			
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																			
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019																			
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																			
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019																			
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019																			
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold indicates concentration above method detection limits.
Roman numerals indicate DEQ criterion number.
A = Total Metals sample collected for comparison to dissolved metals analytical results.
E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of NREPA.
G = Calculated value based on a hardness of 150 mg/L.
H = Analyzed outside of holding time.
J = Analyte detected below quantitation limit.
NS = Not Sampled or Not Analyzed.
Exceeds Generic Drinking Water Cleanup Criteria (II)
Exceeds Generic Drinking Water Cleanup Criteria (II) and the Generic Health-Based Drinking Water Value (E)
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water Value (E)
Exceeds GSI Final Acute Value (FAV), also exceeds others
Notes in parentheses and standard abbreviations from MDEQ Operational Memorandum 1, Attachment 1, dated September 28, 2012 or MDEQ Guidance Document for the Vapor Intrusion Pathway, dated May 2013.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019																			
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019																			
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019																			
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019																			
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																			
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019																			
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																			
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019																			
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019																			
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
Bold indicates concentration above method detection limits.
Roman numerals indicate DEQ criterion number.
A = Total Metals sample collected for comparison to dissolved metals analytical results.
E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of NREPA.
G = Calculated value based on a hardness of 150 mg/L.
H = Analyzed outside of holding time.
J = Analyte detected below quantitation limit.
NS = Not Sampled or Not Analyzed.
Exceeds Generic Drinking Water Cleanup Criteria (II)
Exceeds Generic Drinking Water Cleanup Criteria (II) and the Generic Health-Based Drinking Water Value (E)
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water Value (E)
Exceeds GSI Final Acute Value (FAV), also exceeds others

Notes in parentheses and standard abbreviations from MDEQ Operational Memorandum 1, Attachment 1, dated September 28, 2012 or MDEQ Guidance Document for the Vapor Intrusion Pathway, dated May 2013.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																							
																					Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																					
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**220**	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019							<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**41 J**	NS	NS
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**49 J**	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019							<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15	NS	NS
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019							**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**330**	NS	NS
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	**9.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019							**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**79**	NS	NS
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS

Notes:
Bold indicates concentration above method detection limits.
Roman numerals indicate DEQ criterion number.
A = Total Metals sample collected for comparison to dissolved metals analytical results.
E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of NREPA.
G = Calculated value based on a hardness of 150 mg/L.
H = Analyzed outside of holding time.
J = Analyte detected below quantitation limit.
NS = Not Sampled or Not Analyzed.
Exceeds Generic Drinking Water Cleanup Criteria (II)
Exceeds Generic Drinking Water Cleanup Criteria (II) and the Generic Health-Based Drinking Water Value (E)
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water Value (E)
Exceeds GSI Final Acute Value (FAV), also exceeds others
Per the approval from the EPA, ground water analytical suite was modified prior to the November 2015 monitoring event.
Notes in parentheses and standard abbreviations from MDEQ Operational Memorandum 1, Attachment 1, dated September 28, 2012 or MDEQ Guidance Document for the Vapor Intrusion Pathway, dated May 2013.

Table 2
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-ny}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	**0.71 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019	**0.76 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	**0.67 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019	**11**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	**0.31 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019	**590**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	**530**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019	**0.42 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019	**3.6**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019	**8.2**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	<2.5	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	**7.3**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<25	<1.0	<1.0	<50	<50	**0.78 J**	<1.0	<5.0	<1.0	**6.9**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<25	<1.0	<1.0	<50	**6.9 J**	**0.81 J**	<1.0	<5.0	<1.0	**9.9**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<25	<1.0	<1.0	<50	<50	**0.57 J**	<1.0	<5.0	<1.0	**5.1**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.59 J**	<1.0	<5.0	<1.0	**3.5 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<25	<1.0	<1.0	<50	<50	**0.60 J**	<1.0	<5.0	<1.0	**3.2 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<25	<1.0	<1.0	<50	<50	**0.35 J**	<1.0	<5.0	<1.0	**4.3 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<25	<1.0	<1.0	<50	<50	**0.66 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0		NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**1.0 J**	<5.0	**1.7 J**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																			
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																			
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																			
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																			
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																			
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.5 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																			
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																			
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																			
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																			
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																			
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																			
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																			
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																			
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019																			
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	**4.2 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	**0.85 J**	<4.0	<5.0	<5.0	<5.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																			
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																			
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																			
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<1.0
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013	
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<1.0
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013	
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<1.0
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014	
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<1.0
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014	
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<1.0
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014	
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<1.0
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015	
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<1.0
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015	
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017	
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019	
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<1.0
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<1.0
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013	
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<1.0
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013	
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<1.0
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014	
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<1.0
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014	
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014	
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<1.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015	
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<1.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																						Metals
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.43 J**	**15**	**1,500**	<1.0	<1.0	**1.1 J**	**2.8 J**	**1.3 J**	<0.005	**17,000**	<3.0	<50	**130**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013						**67**	**0.21 J**	**23**	**1,700**	<1.0	**0.17 J**	**1.5 J**	**3.4 J**	**3.3 J**		**25,000**	**0.25 J**	<50	**120**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.27 J**	**23**	**1,900**	<1.0	**0.10 J**	**1.3 J**	**3.7 J**	**1.2 J**	<0.005	**25,000**	**0.076 J**	<50	**120**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013						**33 J**	**0.19 J**	**28**	**2,200**	<1.0	<1.0	**2.0 J**	**3.1 J**	**0.62 J**		**21,000**	**0.17 J**	<50	**86**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.21 J**	**27**	**2,200**	<1.0	**0.12 J**	**2.5 J**	**3.7 J**	<4.0	**0.0044 J**	**21,000**	<3.0	<50	**90**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014						**14 J**	**0.18 J**	**16 J**	**1,300**	**0.15 J**	<1.0	**0.78 J**	**2.6 J**	**2.4 J**		**17,000**	**0.13 J**	<50	**69**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<100	**0.19 J**	**16**	**1,600**	**0.19 J**	**0.18 J**	**2.7 J**	**3.0 J**	**2.0 J**	**6.7 J**	**18,000**	<3.0	<50	**65**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014						**120**	**0.23 J**	**26**	**1,700**	<1.0	**0.062 J**	**1.6 J**	**1.9 J**	**0.55 J**		**18,000**	<3.0	<50	**83**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.24 J**	**25**	**1,700**	<1.0	<1.0	**1.2 J**	**2.0 J**	<4.0	**3.9 J**	**17,000**	<3.0	<50	**80**
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014						**74**	**0.19 J**	**25**	**1,800**	<1.0	<1.0	**1.4 J**	**2.0 J**	**0.17 J**		**18,000**	<3.0	<50	**81**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.18 J**	**25**	**1,700**	<1.0	<1.0	**1.4 J**	**1.8 J**	<4.0	**4.6 J**	**17,000**	<3.0	<50	**78**
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015						**30 J**	**0.26 J**	**27**	**1,900**	<1.0	<1.0	**1.3 J**	**2.3 J**	**1.1 J**		**21,000**	<3.0	<50	**81**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.31 J**	**27**	**2,000**	<1.0	<1.0	**1.3 J**	**2.2 J**	**0.50 J**	<5.0	**21,000**	<3.0	<50	**81**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015						**210**	NS	NS	NS	NS	NS	NS	NS	NS		**23,000**	NS	**160,000**	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	**160,000**	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**59**
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**57**
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016						**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**57**
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**42 J**
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017						**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**42 J**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	**9.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**41 J**
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017						**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**73**
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**60**
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**48**
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	**3.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**48**
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**170**
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**160**
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019						**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**130**
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	**3.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**130**
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**180**
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**200**
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.29 J**	**14**	**900**	<1.0	<1.0	**1.1 J**	**4.2 J**	**0.39 J**		**9,300**	**0.12 J**	<50	**86**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.51 J**	**1.5 J**	**220**	<1.0	**0.047 J**	**0.86 J**	**1.5 J**	**3.2 J**	<0.005	**2,000**	**0.11 J**	<50	**67**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013						**120**	**0.28 J**	**3.9 J**	**300**	<1.0	**0.11 J**	**0.84 J**	**0.95 J**	**5.4**		**4,000**	**0.24 J**	<50	**44 J**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.2 J**	**0.40 J**	**3.8 J**	**320**	<1.0	**0.063 J**	**4.5 J**	**1.9 J**	**3.5 J**	<0.005	**4,000**	<3.0	<50	**46 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013						**190**	**0.33 J**	**3.3 J**	**260**	<1.0	<1.0	**1.1 J**	**1.0 J**	**2.1 J**		**3,800**	**0.30 J**	<50	**38 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.31 J**	**3.7 J**	**300**	<1.0	<1.0	**0.46 J**	**1.3 J**	**1.3 J**	<0.005	**3,900**	<3.0	<50	**36 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014						**450**	**0.22 J**	**0.76 J**	**130**	<1.0	<1.0	**0.48 J**	**0.84 J**	**2.6 J**		**2,000**	**0.79 J**	<50	**33 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**89 J**	**0.24 J**	**0.62 J**	**150 J**	<1.0	<1.0	<10	**1.5 J**	**2.1 J**	<0.005	**1,400**	**0.079 J**	<50	**23 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014						**610**	**0.27 J**	**4.1 J**	**310**	**0.23 J**	<1.0	**0.97 J**	**1.5 J**	**3.0 J**		**4,900**	**0.63 J**	<50	**130**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	**6.4 J**	**0.30 J**	**3.4 J**	**370**	<1.0	<1.0	**0.35 J**	**1.9 J**	**2.4 J**	NS	**4,700**	<3.0	<50	**110**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014						**820**	**0.24 J**	**2.7 J**	**340**	<1.0	<1.0	**1.5 J**	**1.5 J**	**3.5 J**		**5,200**	**0.98 J**	<50	**74**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.21 J**	**2.2 J**	**350**	<1.0	<1.0	**0.32 J**	**1.3 J**	**2.2 J**	<5.0	**4,400**	<3.0	<50	**66**
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015						**260**	**0.28 J**	**2.8 J**	**290**	<1.0	**0.11 J**	**0.75 J**	**0.74 J**	**2.4 J**		**4,600**	<3.0	<50	**37 J**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.41 J**	**1.7 J**	**370**	<1.0	**0.11 J**	**0.48 J**	**1.3 J**	**2.1 J**	<5.0	**5,000**	<3.0	<50	**39 J**
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015						**240**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	**120,000**	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**120,000**	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016						**85**	NS	NS	NS	NS	NS	NS	NS	NS		**1,800**	NS	NS	**13 J**
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**14 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**9.1 J**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**2.0 J**	**6.0 J**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**1.7 J**	**5.6 J**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013	<0.2	**7.7 J**	<5.0	<0.20	<2.0	**1.7 J**	**3.4 J**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**1.8 J**	**3.4 J**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014	<0.2	**7.5 J**	**0.71 J**	<0.2	<2.0	**1.8 J**	**2.0 J**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<0.2	**7.5 J**	<5.0	<0.2	<2.0	**1.6 J**	**1.4 J**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.6 J**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-1[A](DUP)	W-R2330012-12214-JCH-027	12/2/2014	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.2 J**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**1.8 J**	<50
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015	<0.2	**5.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.3 J**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.5 J**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	<0.2	**15 J**	**0.91 J**	<0.20	<2.0	**0.60 J**	**3.7 J**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	<0.2	**4.9 J**	**0.98 J**	<0.20	**0.49 J**	**0.53 J**	**2.3 J**
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<0.2	**5.6 J**	**3.6 J**	<0.20	<2.0	**0.75 J**	**4.4 J**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<0.2	**7.2 J**	**3.6 J**	<0.20	<2.0	**0.60 J**	**2.4 J**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013	<0.2	**6.4 J**	**5.6**	<0.20	<2.0	**0.88 J**	**4.3 J**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<0.2	**6.6 J**	**5.0 J**	<0.20	<2.0	**0.32 J**	**2.6 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013	<0.2	**4.8 J**	**1.2 J**	<0.20	<2.0	**1.1 J**	**5.9 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<0.2	**4.8 J**	**1.3 J**	<0.20	<2.0	**0.41 J**	**1.9 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014	**0.057 J**	**8.9 J**	**0.76 J**	<0.20	**0.22 J**	**1.6 J**	**8.0 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	**0.058 J**	**8.0 J**	**1.4 J**	<0.20	<2.0	**0.56 J**	**3.8 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014	<0.2	**7.8 J**	**1.5 J**	<0.20	<2.0	**2.1 J**	**9.1 J**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	<0.2	**7.0 J**	**1.6 J**	<0.20	<2.0	**0.56 J**	**4.2 J**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014	<0.2	**4.7 J**	**1.3 J**	**0.055 J**	<2.0	**0.65 J**	**4.5 J**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<0.2	**5.9 J**	**2.2 J**	**0.081 J**	<2.0	<4.0	<50
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-031915-JCH-015	3/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<25	<1.0	<1.0	<50	**12 J**	**0.39 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<25	<1.0	<1.0	<50	**8.5 J**	**0.43 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																			
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																			
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																			
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																			
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																			
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																			
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																			
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019																			
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<0.84	<4.0	<5.0	<5.0	<5.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<0.84	<4.0	<5.0	<5.0	<5.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																			
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																			
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																			
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																			
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																			
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017	
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017	
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017	
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018	
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019	
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<1.0
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<1.0
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<1.0
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013	
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<1.0
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013	
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<1.0
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014	
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<1.0
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014	
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<1.0
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015	
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<1.0
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015	
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019	
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016						**48 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	ND	NS	**140**
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**140**
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**260**
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017						**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**250**
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017						**78**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**93**
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**88**
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018						**470**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**240**
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**230**
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018						**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**200**
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,500**	NS	NS	**200**
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019						**1,900**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**300**
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**260**
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019						**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**220**
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**230**
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**7.6 J**	**0.097 J**	**1.4 J**	**470**	<1.0	<1.0	**1.1 J**	**1.2 J**	<4.0	<0.005	**14,000**	<3.0	<50	**56**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.14 J**	**1.2 J**	**480**	<1.0	<1.0	**0.85 J**	**1.3 J**	**0.26 J**	<0.005	**15,000**	**0.034 J**	<50	**55**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.21 J**	<5.0	**410**	<1.0	<1.0	**0.84 J**	**2.7 J**	<4.0	<0.005	**11,000**	<3.0	<50	**490**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013						**4.5 J**	**0.22 J**	<5.0	**480**	<1.0	**0.29 J**	**0.80 J**	**2.4 J**	**2.7 J**		**16,000**	<3.0	<50	**77**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**170**	**0.12 J**	<5.0	**490**	<1.0	**0.29 J**	**1.4 J**	**1.5 J**	**2.6 J**	<0.005	**16,000**	**0.30 J**	<50	**80**
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013						**490**	**0.23 J**	**1.7 J**	**460**	<1.0	<1.0	**2.9 J**	**2.2 J**	**1.4 J**		**16,000**	**1.2 J**	<50	**96**
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.19 J**	**1.1 J**	**460**	<1.0	**0.34 J**	**0.78 J**	**2.0 J**	**0.65 J**	<0.005	**15,000**	<3.0	<50	**70**
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014						**2,800**	**0.40 J**	**5.1**	**480**	**0.095 J**	<1.0	**4.5 J**	**5.7 J**	**9.6 J**		**20,000**	**7.5**	<50	**700**
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.23 J**	**2.9 J**	**450**	<1.0	<1.0	**0.37 J**	**2.4 J**	**2.0 J**	**3.4 J**	**15,000**	<3.0	<50	**410**
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014						**500**	**0.35 J**	**2.8 J**	**430**	<1.0	<1.0	**1.3 J**	**2.0 J**	**1.9 J**		**14,000**	**0.71 J**	<50	**110**
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.5 J**	**0.37 J**	**2.5 J**	**410**	<1.0	<1.0	**0.54 J**	**1.8 J**	**0.95 J**	<5.0	**12,000**	<3.0	<50	**100**
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015						**3,100**	**0.33 J**	**2.3 J**	**500**	<1.0	<1.0	**4.7 J**	**3.4 J**	**7.8**		**20,000**	**4.4**	<50	**140**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.1 J**	**0.23 J**	**0.97 J**	**450**	<1.0	<1.0	**0.55 J**	**1.7 J**	**1.1 J**	<5.0	**16,000**	<3.0	<50	**69**
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015						**84**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	**140,000**	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016						**81**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**490**
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**560**
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016						**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**72**
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017						**21 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**760**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS	**730**
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017						**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**62**
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**680**
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	**8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**690**
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018						**36**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**71**
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**69**
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019						**82**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**810**
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**790**
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019						**85**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**790**
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**810**
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019						**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**740**
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**730**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	<0.2	**2.4 J**	**0.46 J**	<0.20	<2.0	**0.75 J**	**1.9 J**
MW-3	W-R2330021-110416-JPM-029	11/4/2016	<0.2	**2.4 J**	<5.0	<0.025	<2.0	**0.73 J**	**2.4 J**
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**0.85 J**	**1.1 J**
MW-3	W-R2330022-042817-AFB-029	4/28/2017	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.0 J**	**2.4 J**
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017	<0.2	**4.0 J**	**1.0 J**	<0.20	<2.0	**1.4 J**	**3.5 J**
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**2.1 J**	**7.5 J**
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.94 J**	**2.8 J**
MW-3	W-R2330022-102417-DMS-008	10/23/2017	<0.2	**16 J**	**1.4 J**	<0.20	**0.12 J**	**8.5**	**35 J**
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**0.74 J**	**20 J**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<0.2	**6.2 J**	<5.0	<0.20	<2.0	**2.2 J**	**6.5 J**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<0.2	**5.4 J**	<5.0	<0.20	<2.0	**1.0 J**	**3.1 J**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013	<0.2	**11 J**	<5.0	**0.029 J**	<2.0	**6.6**	**23 J**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.71 J**	<50
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330009-111213-ACN-003	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330012-032714-ACN-006	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330012-12114-JCH-020	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015	<0.2	**3.5 J**	**0.69 J**	<0.20	<2.0	**1.3 J**	**1.1 J**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<0.2	**3.9 J**	**0.67 J**	<0.20	**0.069 J**	**1.2 J**	**1.1 J**
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015	<0.2	**4.9 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**10 J**
MW-4	W-R2330017-112015-JPM-033	11/20/2015	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.4 J**	**3.1 J**
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**2.5 J**	**11 J**
MW-4	W-R2330021-042116-AFB-028	4/21/2016	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.4 J**
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	<0.2	**9.2 J**	<5.0	**0.051 J**	<2.0	**4.2**	**26 J**
MW-4	W-R2330021-110416-JPM-036	11/4/2016	<0.2	**6.5 J**	**0.70 J**	<0.20	<2.0	**1.3 J**	**0.65 J**
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	<0.2	**3.4 J**	<5.0	**0.029 J**	<2.0	**2.1 J**	**6.0 J**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	<0.2	**3.4 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<25	<1.0	<1.0	<50	**6.9 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<25	<1.0	<1.0	<50	**15 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<25	<1.0	<1.0	<50	**5.1 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<25	<1.0	<1.0	<50	**11 J**	**4.9**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<25	<1.0	<1.0	<50	<50	**2.8**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<25	<1.0	<1.0	<50	<50	**4.6**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<25	<1.0	<1.0	<50	<50	**3.2**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	**1.3 J**	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<25	<1.0	<1.0	<50	<50	**2.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	**0.58 J**	<1.0	<5.0	<1.0	<1.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	<10	**1.2 J**	<4.0	**0.99 J**	<5.0	<5.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	<10	**1.2 J**	<4.0	**0.93 J**	<5.0	<5.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																			
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																			
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																			
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																			
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																			
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.79 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																			
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																			
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																			
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																			
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																			
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																			
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																			
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																			
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019																			
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																			
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																			
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.47 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																			
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																			
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																			
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																			
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																			
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																			
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<1.0
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<1.0
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013	
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<1.0
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013	
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<1.0
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<1.0
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014	
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<1.0
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015	
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<1.0
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015	
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016	
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016	
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016	
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017	
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017	
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019	
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<1.0
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<1.0
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013	
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<1.0
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013	
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<1.0
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014	
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<1.0
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014	
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<1.0
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015	
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<1.0
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015	
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016	
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																	Metals				
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.17 J**	**31**	**1,300**	<1.0	<1.0	**1.5 J**	**2.3 J**	<4.0	<0.005	**5,300**	**0.3 J**	<50	**56**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.27 J**	**31**	**1,300**	<1.0	<1.0	**1.9 J**	**2.3 J**	<4.0	<0.005	**5,400**	**0.061 J**	<50	**58**
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013						**330**	**2.2 J**	**34**	**1,500**	<1.0	**0.84 J**	**2.1 J**	**2.3 J**	**3.5 J**		**5,300**	**2.1 J**	<50	**56**
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.27 J**	**31**	**1,400**	<1.0	**0.16 J**	**1.6 J**	**3.1 J**	**2.1 J**	<0.005	**4,300**	**0.069 J**	<50	**50**
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013						**420**	**0.26 J**	**40**	**1,400**	<1.0	**0.98 J**	**2.6 J**	**2.6 J**	**3.5 J**		**6,500**	**4.9 J**	<50	**81 J**
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.20 J**	**38**	**1,300**	<1.0	**0.57 J**	**2.9 J**	**2.6 J**	<4.0	**0.0016**	**5,900**	<3.0	<50	**71 J**
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014						**1,100**	**0.50 J**	**40**	**1,300**	**0.25 J**	**0.49 J**	**3.3 J**	**3.1 J**	**8.0 J**		**8,100**	**12 J**	<50	**93**
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**0.25 J**	**31**	**1,200**	<1.0	<1.0	**0.61 J**	**2.6 J**	**1.0 J**	**2.6 J**	**4,500**	**0.34**	<50	**57**
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014						**280**	**0.20 J**	**33**	**1,400**	<1.0	**2.1**	**1.7 J**	**2.0 J**	**0.86 J**		**5,500**	**1.4 J**	<50	**79**
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.4 J**	**0.19 J**	**32**	**1,400**	<1.0	**0.026 J**	**1.7 J**	**1.9 J**	<4.0	<5.0	**5,000**	**2.4 J**	<50	**73**
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015						**360**	**0.24 J**	**34**	**1,400**	<1.0	**5.3**	**2.2 J**	**2.4 J**	**3.9 J**		**6,200**	**2.3 J**	<50	**81**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.29 J**	**30**	**1,500**	<1.0	<1.0	**1.3 J**	**2.6 J**	**0.98 J**	<5.0	**5,200**	<3.0	<50	**73**
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015						**3,100**	NS	NS	NS	NS	NS	NS	NS	NS		**13,000**	NS	**150,000**	NS
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	**140,000**	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016						**2,800**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	NS	**150**
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**58**
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016						**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**79**
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**52**
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS	**72**
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**50**
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017						**30 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**56**
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**50**
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017						**890**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS	**76**
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**62**
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018						**590**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS	**440**
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019						**700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS	**120**
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**87**
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019						**100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**77**
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**76**
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.16 J**	**9.4**	**580**	<1.0	<1.0	**1.0 J**	**2.4 J**	**0.31 J**	<0.005	**26,000**	**0.057 J**	<50	**500**
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**7.5 J**	**0.15 J**	**3.7 J**	**480**	<1.0	<1.0	**1.6 J**	**1.5 J**	<4.0	<0.005	**18,000**	**0.31 J**	<50	**640**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013						**47 J**	**0.11 J**	**6.0**	**540**	<1.0	**0.19 J**	**0.94 J**	**1.9 J**	**4.40**		**22,000**	**0.29 J**	<50	**790**
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.8 J**	**0.15 J**	**5.5**	**550**	<1.0	**0.25 J**	**0.75 J**	**2.4 J**	**3.5 J**	<0.005	**21,000**	**0.063 J**	<50	**750**
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013						**200 J**	**0.16 J**	**5.4 J**	**520**	<1.0	**0.25 J**	**1.8 J**	**1.7 J**	**1.4 J**		**18,000**	**0.55 J**	<50	**430**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**160**	**0.14 J**	**5.5 J**	**520**	<1.0	**0.43 J**	**2.2 J**	**1.7 J**	**1.3 J**	<0.005	**18,000**	**0.41 J**	<50	**430**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014						**76**	**0.15 J**	**3.0 J**	**460**	<1.0	<1.0	**0.56 J**	**2.0 J**	**2.0 J**		**11,000**	**0.31 J**	<50	**410**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.6 J**	**0.17 J**	**3.4 J**	**460**	<1.0	<1.0	**0.37 J**	**1.4 J**	**1.9 J**	**1.3 J**	**10,000**	<3.0	<50	**410**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014						**320**	**0.17 J**	**4.5 J**	**570**	<1.0	**0.068 J**	**1.7 J**	**1.1 J**	**0.85 J**		**18,000**	<3.0	<50	**420**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.6 J**	**0.17 J**	**4.8 J**	**540**	<1.0	<1.0	**0.53 J**	**1.0 J**	<4.0	<5.0	**17,000**	<3.0	<50	**410**
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015						**300**	**0.35 J**	**3.1 J**	**430**	<1.0	**0.098 J**	**1.5 J**	**1.7 J**	**4.1**		**12,000**	**1.1 J**	<50	**500**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.41 J**	**1.9 J**	**360**	<1.0	<1.0	**0.42 J**	**1.5 J**	**2.0 J**	<5.0	**11,000**	<3.0	<50	**470**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015						**30 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**130,000**	NS
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**130,000**	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016						**100**	NS	NS	NS	NS	NS	NS	NS	NS		**5,800**	NS	NS	**320**
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	**7.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**360**
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016						**76**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**500**
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**490**
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017						**83**										**3,600**	NS	NS	**960**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**2.2 J**	**9.3 J**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**1.5 J**	<50
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-111213-ACN-004	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330012-032814-ACN-008	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330012-12214-JCH-025	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015	<0.2	**3.8 J**	**0.051 J**	<0.025	<2.0	**1.2 J**	**1.5 J**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<0.2	**5.0 J**	<5.0	<0.20	<2.0	**0.99 J**	**2.1 J**
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.8 J**
MW-5	W-R2330017-112015-JPM-031	11/20/2015	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.2 J**
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.7 J**
MW-5	W-R2330021-042116-JPM-024	4/21/2016	<0.2	**8.5 J**	<5.0	<0.20	<2.0	**1.6 J**	**3.3 J**
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016	<0.2	**11 J**	<5.0	<0.20	**0.084 J**	**1.2 J**	**5.0 J**
MW-5	W-R2330021-110216-AEM-013	11/2/2016	<0.2	**12 J**	<5.0	<0.20	<2.0	**0.99 J**	**3.0 J**
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016	<0.2	**4.9 J**	<5.0	**0.027 J**	<2.0	**2.2 J**	**14 J**
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	<0.2	**4.2 J**	<5.0	**0.020 J**	<2.0	**1.8 J**	<50
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017	<0.2	**15 J**	<5.0	<0.20	<2.0	**1.9 J**	**42 J**
MW-5	W-R2330022-042617-AFB-016	4/26/2017	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.84 J**	**33 J**
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330009-050213-MJF-012	5/2/2013	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013	<0.2	**11 J**	<5.0	<0.20	<2.0	**1.2 J**	**40 J**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.4 J**	**44 J**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014	<0.2	**14 J**	<5.0	<0.20	<2.0	**1.2 J**	**39 J**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.2 J**	**22 J**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014	<0.2	**14 J**	<5.0	<0.20	<2.0	**2.3 J**	**6.6 J**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<0.2	**18 J**	**0.84J**	<0.20	**0.22 J**	**1.2 J**	**15 J**
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015	<0.2	**16 J**	<5.0	<0.20	<2.0	**1.0 J**	**8.2 J**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<0.2	**8.4 J**	<5.0	**0.022 J**	<2.0	**2.1 J**	**6.3 J**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-6	W-R2330017-111915-JPM-023	11/19/2015	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.4 J**	**19 J**
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.2 J**	**4.4 J**
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019																			
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<25	<1.0	<1.0	<50	**5.5 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<25	<1.0	<1.0	<50	<50.0	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																			
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																			
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																			
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																			
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																			
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019																			
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019																			
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**0.95 J**	<5.0	<5.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																			
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																			
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.18 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																			
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																			
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																			
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																			
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																			
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																			
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																			
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																			
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018																			
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																			
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																			
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019																			
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017	
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018	
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018	
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019	
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019	
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<1.0
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013	
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<1.0
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013	
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<1.0
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014	
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<1.0
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014	
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<1.0
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015	
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<1.0
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015	
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016	
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016	
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017	
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017	
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018	
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019	
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<1.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013	
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<1.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<1.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																			Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	**5.1 J**										**3,300**	NS	NS	**910**
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017						**550**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**410**
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**360**
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS	**370**
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**370**
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018						**32**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	NS	NS	**260**
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**250**
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018						**U**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**U**	NS	NS	**U**
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**420**
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018						**5.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**400**
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	**7.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**410**
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**740**
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	**9.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**500**	NS	NS	**660**
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019						**8.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,500**	NS	NS	**380**
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**380**
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.4 J**	**0.84 J**	**0.87 J**	**450**	<1.0	<1.0	**1.4 J**	**3.4 J**	**2.1 J**	<0.005	**3,400**	**0.074 J**	<50	**530**
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013						**39 J**	**0.39 J**	**18**	**520**	<1.0	**0.43 J**	**1.4 J**	**3.8 J**	**2.2 J**		**8,100**	**0.47 J**	<50	**910**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.48 J**	**17**	**520**	<1.0	**0.21 J**	**1.2 J**	**4.3 J**	**3.1 J**	<0.005	**7,700**	**0.096 J**	<50	**880**
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013						**21 J**	**0.58 J**	**7.0 J**	**370**	<1.0	**1.2 J**	**1.3 J**	**3.6 J**	**2.4 J**		**5,700**	**0.31 J**	<50	**490**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.57 J**	**6.4 J**	**380**	<1.0	**0.92 J**	**1.3 J**	**4.1 J**	**1.5 J**	**0.0037 J**	**5,600**	<3.0	<50	**480**
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014						**11 J**	**0.18 J**	**3.5 J**	**330**	<1.0	**0.54 J**	**0.72 J**	**3.8 J**	**7.9**		**8,900**	**0.39 J**	<50	**560**
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**3.6 J**	**0.16 J**	**3.4 J**	**370**	<1.0	<1.0	<2.0	**3.2 J**	**4.4**	<0.005	**9,600**	<3.0	<50	**530**
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014						**20 J**	**0.18 J**	**4.5 J**	**420**	<1.0	**0.16 J**	**0.98 J**	**2.9 J**	**0.69 J**		**10,000**	<3.0	<50	**690**
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.4 J**	**0.18 J**	**3.2 J**	**420**	<1.0	<1.0	**0.81 J**	**2.5 J**	<4.0	<5.0	**9,400**	<3.0	<50	**670**
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015						**130**	**0.21 J**	**2.9 J**	**320**	<1.0	**0.39 J**	**1.1 J**	**3.1 J**	**2.9 J**		**8,500**	**0.42 J**	<50	**440**
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.1 J**	**0.26 J**	**2.4 J**	**330**	<1.0	<1.0	**0.87 J**	**3.2 J**	**1.6 J**	<5.0	**8,600**	<3.0	<50	**450**
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015						**69**	NS	NS	NS	NS	NS	NS	NS	NS		**7,500**	NS	**150,000**	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	**150,000**	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016						**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	NS	**500**
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**470**
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016						**23 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**340**
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	NS	NS	**320**
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017						**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**490**
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**470**
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017						**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**760**
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**740**
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018						**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS	**610**
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS	**600**
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018						**62**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**1,000**
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	**5.8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS	**950**
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019						**67**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**670**
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	**4.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**690**
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019						**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**1,100**
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,700**	NS	NS	**1,000**
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.21 J**	**1.2 J**	**380**	<1.0	<1.0	**0.56 J**	**1.5 J**	<4.0	<0.005	**6,200**	<3.0	<50	**180**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013						**51**	**0.16 J**	**4.1 J**	**470**	<1.0	**0.12 J**	**1.2 J**	**1.5 J**	**3.8 J**		**8,200**	**0.80 J**	<50	**200**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	**0.20 J**	**3.9 J**	**460**	<1.0	**0.098 J**	**0.94 J**	**2.3 J**	**1.6 J**	<0.005	**8,100**	**0.074 J**	<50	**200**
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013						**98 J**	**0.12 J**	**3.7 J**	**420**	<1.0	**0.50 J**	**1.3 J**	**1.6 J**	**1.6 J**		**7,700**	**0.34 J**	<50	**200**
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.13 J**	**3.6 J**	**440**	<1.0	**0.49 J**	**2.0 J**	**1.8 J**	**1.5 J**	**0.0015 J**	**7,500**	<3.0	<50	**210**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.0 J**
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017	<0.2	**6.8 J**	<5.0	<0.20	<2.0	**1.3 J**	**4.0 J**
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	<0.2	**6.6 J**	<5.0	<0.20	<2.0	**0.91 J**	**3.0 J**
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.5 J**	**3.2 J**
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.4 J**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<0.2	**19 J**	<5.0	<0.20	<2.0	**5.2**	**18 J**
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013	<0.2	**10 J**	<5.0	<0.20	<2.0	**0.85 J**	**5.8 J**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**2.0 J**	**11 J**
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.74 J**	<50
MW-7	W-R2330012-032614-ACN-001	3/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330012-112614-JCH-015	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-031715-JCH-013	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**7.5 J**
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.6 J**
MW-7	W-R2330021-041916-JPM-007	4/19/2016	<0.2	**5.2 J**	<5.0	<0.20	<2.0	**1.4 J**	**2.9 J**
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016	<0.2	**6.9 J**	<5.0	<0.20	**0.14 J**	**1.5 J**	**3.7 J**
MW-7	W-R2330021-110116-AEM-007	11/1/2016	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.5 J**	**2.5 J**
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-7	W-R2330022-042517-DMS-013	4/25/2017	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.1 J**
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017	<0.2	**3.2 J**	<5.0	**0.024 J**	<2.0	**1.9 J**	**3.7 J**
MW-7	W-R2330022-102717-DMS-028	10/27/2017	<0.2	**3.5 J**	<5.0	<0.20	<2.0	**1.6 J**	<50
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**2.1 J**	**11 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013	<0.2	**6.3 J**	<5.0	<0.20	<2.0	**1.2 J**	**3.9 J**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-111213-ACN-005	11/12/2013	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<25	<1.0	<1.0	<50	<50	**0.36 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016																			
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<25	<1.0	<1.0	<50	**4.3 J**	**8.6**	<1.0	<5.0	**25**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.5**	<1.0	<5.0	**24**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																			
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																			
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019																			
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**0.91 J**	**0.92 J**	**1.7 J**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																			
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																			
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																			
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																			
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																			
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																			
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																			
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016																			
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																			
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																			
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																			
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																			
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																			
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019																			
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<3.0	<10	<10	<5.0	<10	<10	**0.86 J**	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**1.0 J**	<5.0	**1.7 J**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																			
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<1.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015	
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016	
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017	
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019	
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<1.0
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013	
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<1.0
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013	
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<1.0
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014	
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<1.0
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014	
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<1.0
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015	
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<1.0
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016	
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017	
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018	
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019	
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<1.0
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013	
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<1.0
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014						**1,200**	**0.11 J**	**4.7 J**	**370**	<1.0	**2.1**	**2.7 J**	**2.4 J**	**4.7**		**8,000**	**4.7**	<50	**400**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	<2.0	**3.3 J**	**350**	<1.0	<1.0	**0.34 J**	**1.3 J**	**0.50 J**	<5.0	**4,900**	<3.0	<50	**330**
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015						**440**	<2.0	**2.0 J**	**330**	<1.0	**0.73 J**	**3.2 J**	**1.2 J**	**2.7 J**		**7,100**	**1.9 J**	<50	**210**
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.18 J**	**1.3 J**	**330**	<1.0	<1.0	**0.47 J**	**1.3 J**	**1.5 J**	<5.0	**5,900**	<3.0	<50	**200**
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015						**540**	NS	NS	NS	NS	NS	NS	NS	NS		**3,300**	NS	**92,000**	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	**91,000**	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS	**200**
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS	**200**
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016						**50 J**	NS	NS	NS	NS	NS	NS	NS	NS		**7,200**	NS	NS	**2,800**
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	**8.70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**290**
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017						**23**	NS	NS	NS	NS	NS	NS	NS	NS		**7,000**	NS	NS	**310**
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,600**	NS	NS	**320**
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018						**60**	NS	NS	NS	NS	NS	NS	NS	NS		**190**			**1.8**
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	**8.80**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,400**			**440**
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019						**11**	NS	NS	NS	NS	NS	NS	NS	NS		**8,700**	NS	NS	**330**
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**330**
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.6 J**	**0.2 J**	**44**	**1,700**	<1.0	<1.0	**1.9 J**	**2.4 J**	**0.71 J**	<0.005	**28,000**	**0.053 J**	<50	**760**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013						**13 J**	**0.13 J**	**52**	**1,300**	<1.0	**0.22 J**	**1.0 J**	**1.4 J**	**2.1 J**		**31,000**	**0.17 J**	<50	**440**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**52**	**1,300**	<1.0	**0.24 J**	**0.91 J**	**2.2 J**	**1.7 J**	<0.005	**30,000**	**0.068 J**	<50	**430**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013						**43 J**	**0.16 J**	**59**	**2,100**	<1.0	<1.0	**2.0 J**	**1.7 J**	<4.0		**30,000**	**0.30 J**	<50	**400**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.17 J**	**60**	**2,200**	<1.0	<1.0	**1.0 J**	**1.7 J**	<4.0	<0.005	**29,000**	**0.083 J**	<50	**340**
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014						**190**	**0.19 J**	**51**	**1,700**	<1.0	<1.0	**1.0 J**	**2.2 J**	**2.6 J**		**34,000**	**0.99 J**	<50	**600**
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.15 J**	**47**	**1,900**	<1.0	<1.0	**0.70 J**	**2.2 J**	**1.4 J**	**2.1 J**	**34,000**	**0.21 J**	<50	**570**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014						**42 J**	**0.18 J**	**59**	**1,800**	<1.0	**0.050 J**	**1.0 J**	**1.2 J**	<4.0		**31,000**	<3.0	<50	**330**
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.25 J**	**62**	**1,900**	<1.0	<1.0	**1.0 J**	**1.4 J**	<4.0	<5.0	**30,000**	<3.0	<50	**300**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015						**260**	**0.19 J**	**49**	**1,700**	<1.0	**0.094 J**	**1.4 J**	**2.0 J**	**3.9 J**		**34,000**	**1.1 J**	<50	**390**
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.0 J**	**0.34 J**	**46**	**1,800**	<1.0	<1.0	**0.83 J**	**1.9 J**	**1.4 J**	<5.0	**33,000**	<3.0	<50	**370**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015						**510**	NS	NS	NS	NS	NS	NS	NS	NS		**33,000**	NS	**120,000**	NS
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32,000**	NS	**130,000**	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS	**500**
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33,000**	NS	NS	**540**
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016						**270**	NS	NS	NS	NS	NS	NS	NS	NS		**29,000**	NS	NS	**260**
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**240**
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017						<50	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	NS	**240**
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**230**
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017						**55**	NS	NS	NS	NS	NS	NS	NS	NS		**26,000**	NS	NS	**220**
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**220**
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018						**12**	NS	NS	NS	NS	NS	NS	NS	NS		**30,000**	NS	NS	**230**
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**230**
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018						**130**	NS	NS	NS	NS	NS	NS	NS	NS		**3,300**	NS	NS	**98**
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**230**
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019						**37**	NS	NS	NS	NS	NS	NS	NS	NS		**28,000**	NS	NS	**270**
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**260**
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS		**25,000**	NS	NS	**230**
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**240**
MW-10	W-R2330009-050113-MJF-003	5/1/2013	**1.1 J**	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.19 J**	**7.4**	**1,800**	<1.0	<1.0	**1.8 J**	**2.6 J**	<4.0	<0.005	**17,000**	**0.054 J**	<50	**350**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013						**26 J**	**0.27 J**	**6.5**	**1,700**	<1.0	**0.29 J**	**2.2 J**	**3.1 J**	**3.4 J**		**17,000**	**7.3**	<50	**600**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.1 J**	**0.31 J**	**6.7**	**1,800**	<1.0	**0.22 J**	**2.0 J**	**3.5 J**	**2.7 J**	<0.005	**17,000**	**2.4 J**	<50	**600**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013						**25 J**	**0.26 J**	**6.7**	**1,700**	<1.0	**0.40 J**	**2.0 J**	**3.1 J**	3.4 J		**17,000**	**7.2**	<50	**580**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330012-112614-JCH-014	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<0.2	**4.9 J**	**0.66 J**	<0.20	<2.0	**2.3 J**	**2.4 J**
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**
MW-8	W-R2330017-111615-AEP-004	11/16/2015	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.2 J**
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	<0.2	**7.4 J**	**0.75 J**	<0.20	<2.0	**2.2 J**	**8.5 J**
MW-8	W-R2330021-041916-JPM-008	4/19/2016	<0.2	**7.4 J**	**0.79 J**	<0.20	<2.0	**2.2 J**	**4.9 J**
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**3.0 J**	**7.0 J**
MW-8	W-R2330021-110116-AEM-008	11/1/2016	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.4 J**
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.0 J**	**3.8 J**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013	<0.2	**8.2 J**	<5.0	<0.20	<2.0	**2.3 J**	**5.0 J**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<0.2	**8.1 J**	<5.0	<0.20	<2.0	**2.1 J**	**2.1 J**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013	<0.2	**9.8 J**	<5.0	<0.20	**0.24 J**	**1.8 J**	**3.0 J**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<0.2	**7.9 J**	**0.84 J**	<0.20	<2.0	**2.3 J**	**2.1 J**
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014	<0.2	**8.0 J**	**0.83 J**	<0.20	<2.0	**1.9 J**	<50
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	**3.7 J**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	<50
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<0.2	**3.9 J**	<5.0	<0.20	<2.0	**2.8 J**	**3.4 J**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**2.3 J**	<50
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.8 J**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	<0.2	**3.7 J**	<5.0	**0.021 J**	<2.0	**2.7 J**	**3.3 J**
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-042617-DMS-015	4/26/2017	<0.2	**1.2 J**	**1.7 J**	<0.20	<2.0	<4.0	**2.0 J**
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017	<0.2	**2.2 J**	**0.74 J**	<0.20	<2.0	**0.24 J**	**2.5 J**
MW-9	W-R2330022-102717-DMS-030	10/27/2017	<0.2	**2.2 J**	**1.1 J**	<0.20	<2.0	**0.23 J**	**2.2 J**
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<0.2	**4.8 J**	**1.1 J**	<0.20	**0.24 J**	**2.1 J**	**8.6 J**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013	<0.2	**3.2 J**	**0.83 J**	<0.20	<2.0	<4.0	**3.1 J**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<0.2	**3.4 J**	**1.3 J**	<0.20	<2.0	**0.34 J**	**0.91 J**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<0.2	**3.3 J**	**0.83 J**	<0.20	**0.098 J**	**0.28 J**	<50.0

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**23**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**13**	<1.0	<5.0	**36**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<25	<1.0	<1.0	<50	**16 J**	**12**	<1.0	<5.0	**35**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**24**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**25**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<25	<1.0	<1.0	<50	<50	**7.8**	<1.0	<5.0	**38**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**28**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**27**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<25	<1.0	**0.48 J**	<50	<50	**12**	<1.0	<5.0	**44**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	**0.29 J**	<1.0	<1.0
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<25	<1.0	<1.0	<50	**5.5 J**	**7.4**	<1.0	<5.0	**24**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<25	<1.0	**.41 J**	<50	**1.8 J**	**11.0**	<1.0	<5.0	**41**	<5.0	<0.17	<1.0	**.49 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<25	<1.0	<1.0	<50	**7.4 J**	**7.2**	<1.0	<5.0	**32**	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	<25	<1.0	<1.0	<50	**3.5 J**	**9.8**	<1.0	<5.0	**34**	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-10	W-R2330024-042418-JPM-017	4/24/2018	<25	<1.0	<1.0	<50	**3.5 J**	**6.4**	<1.0	<5.0	**30**	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	<0.47	<0.12	**0.36 J**	<0.52	**2.6 J**	**4.9**	<0.22	<0.39	**31**	<0.68	<0.68	<0.46	<0.18	<0.20	<.30	<0.29	**0.30 J**	<0.090	<0.32
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	<0.52	<0.32	<0.35	<0.52	4.3 J	4.4	<0.49	<0.49	**29**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.52	<0.32	<0.35	<0.52	<6.2	4.3	<0.49	<0.49	**31**	<0.68	**1.5**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																			
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	**0.28 J**	<4.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																			
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																			
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																			
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.1 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.8 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018																			
MW-10	W-R2330024-042418-JPM-017	4/24/2018	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																			
MW-10	W-R2330024-102418-SSR-018	10/24/2018	<.74	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																			
MW-10	W-R2330025-050119-SSR-017	5/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																			
MW-10	W-R2330025-102919-KRM-018	10/29/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<3.0	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**0.92 J**	<5.0	**1.7 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<1.0
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013	
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<1.0
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013	
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<1.0
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014	
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<1.0
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014	
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<1.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<1.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<1.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015	
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<1.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015	
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016	
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016	
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017	
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017	
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018	
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019	
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<1.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013	
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<1.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013	
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<1.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014	
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<1.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014	
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014	
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<1.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015	
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<1.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015	
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																					Metals	
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.25 J**	**6.4**	**1,700**	<1.0	**0.27 J**	**2.0 J**	**3.1 J**	**2.4 J**	<0.005	**17,000**	**2.7 J**	<50	**600**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013						**26 J**	**0.24 J**	**10**	**1,900**	<1.0	**1.7 J**	**3.7 J**	**3.3 J**	**1.8 J**		**2,300**	**2.8 J**	<50	**460**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.23 J**	**9.7 J**	**1,900**	<1.0	**1.4 J**	**2.7 J**	**3.8 J**	**1.1 J**	**0.0019 J**	**2,100**	**0.16 J**	<50	**480**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013						**26 J**	**0.23 J**	**10**	**1,900**	<1.0	**1.7 J**	**2.9 J**	**3.4 J**	**1.4 J**		**2,300**	**2.8 J**	<50	**450**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**8.8 J**	**0.20 J**	**9.2 J**	**1,900**	<1.0	**1.7 J**	**2.6 J**	**3.4 J**	**1.1 J**	**0.0023 J**	**2,100**	**0.18 J**	<50	**470**
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014						**32 J**	**0.20 J**	**6.6 J**	**1,700**	<1.0	<1.0	**1.6 J**	**3.0 J**	**1.9 J**		**24,000**	**1.6 J**	<50	**550**
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**2.0 J**	**0.22 J**	**6.5 J**	**1,700**	<1.0	<1.0	**0.79 J**	**2.5 J**	**3.3 J**	**2.4 J**	**24,000**	**0.14 J**	<50	**540**
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014						**45 J**	**0.23 J**	**7.1 J**	**1,800**	<1.0	<1.0	**1.6 J**	**2.9 J**	**1.5 J**		**25,000**	**1.7 J**	<50	**550**
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**6.8 J**	**1,700**	<1.0	<1.0	<10	**3.0 J**	**1.1 J**	**4.1 J**	**23,000**	**0.14 J**	<50	**530**
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014						**21 J**	**0.23 J**	**7.1**	**2,100**	<1.0	**0.034 J**	**2.3 J**	**2.2 J**	<4.0		**22,000**	**2.2 J**	<50	**420**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.2 J**	**0.22 J**	**8.4**	**2,100**	<1.0	<1.0	**2.3 J**	**2.4 J**	<4.0	<5.0	**23,000**	<3.0	<50	**430**
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015						**24 J**	**0.29 J**	**7.3**	**2,500**	<1.0	**0.028 J**	**2.5 J**	**2.3 J**	**0.51 J**		**23,000**	**2.5 J**	<50	**450**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.26 J**	**7.0**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.40 J**	<5.0	**22,000**	<3.0	<50	**420**
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015						**26 J**	**0.21 J**	**6.6**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.65 J**		**21,000**	**2.1 J**	<50	**420**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.24 J**	**7.2**	**2,400**	<1.0	<1.0	**2.6 J**	**2.7 J**	**0.27 J**	<5.0	**23,000**	**0.36 J**	<50	**430**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015						**31 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**160,000**	NS
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**160,000**	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	NS	**420**
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**27,000**	NS	NS	**470**
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016						**32 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**420**
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**430**
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**430**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**410**
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017						**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**470**
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**470**
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018						**75**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018						**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**550**
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**570**
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019						**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**500**
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**500**
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019						**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**520**
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	**8.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**520**
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.6 J**	**0.13 J**	<5.0	**26**	<1.0	<1.0	**0.69 J**	**0.41 J**	**0.76 J**	<0.005	**13 J**	**0.0079 J**	<50	**7.4 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013						**22 J**	**0.079 J**	<5.0	**57 J**	<1.0	<1.0	**0.49 J**	**0.51 J**	**2.7 J**		**270**	<3.0	<50	**58**
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.12 J**	<5.0	**61 J**	<1.0	<1.0	**0.53 J**	**0.93 J**	**2.0 J**	<0.005	**270**	<3.0	<50	**61**
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013						**730**	**0.66 J**	**1.0 J**	**38 J**	<1.0	<1.0	**3.1 J**	**1.2 J**	**3.0 J**		**1,600**	**1.3 J**	<50	**75**
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**22 J**	**0.30 J**	**0.65 J**	**47 J**	<1.0	<1.0	**0.40 J**	**0.91 J**	**0.82 J**	<0.005	**150 J**	<3.0	<50	**60**
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014						**180**	**0.12 J**	<5.0	**38 J**	<1.0	<1.0	**0.55 J**	**0.74 J**	**1.5 J**		**380**	**0.37 J**	<50	**52**
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.096 J**	<5.0	**47 J**	<1.0	<1.0	<10	**0.80 J**	**0.96 J**	<0.005	**110 J**	<3.0	<50	**54**
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014						**26 J**	**0.10 J**	**1.2 J**	**72 J**	<1.0	**0.047 J**	<10	**0.57 J**	**0.76 J**		**500**	<3.0	<50	**68**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	**2.7 J**	**0.15 J**	**1.1 J**	**75 J**	<1.0	<1.0	<10	**1.1 J**	**1.4 J**	NS	**500**	<3.0	<50	**68**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014						**47 J**	<2.0	<5.0	**58 J**	<1.0	**0.087 J**	**0.23 J**	**0.67 J**	**4.3**		**220**	<3.0	<50	**110**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	<2.0	**0.65 J**	**69 J**	<1.0	**0.052 J**	<10	**0.67 J**	**1.1 J**	<5.0	**320**	<3.0	<50	**96**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015						**65**	<2.0	<5.0	**20 J**	<1.0	**0.39 J**	**2.5 J**	**0.30 J**	**1.2 J**		**110 J**	<3.0	<50	**130**
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.17 J**	<5.0	**20 J**	<1.0	**0.29 J**	**0.16 J**	**0.47 J**	**0.78 J**	<5.0	<200	<3.0	<50	**4.8 J**
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015						**17 J**	NS	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**29,000**	NS
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	**2.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	**29,000**	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016						**390**	NS	NS	NS	NS	NS	NS	NS	NS		**700**	NS	NS	**310**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	**0.062 J**	**2.5 J**	<5.0	<0.20	<2.0	**0.28 J**	**2.8 J**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013	**0.064 J**	**2.6 J**	<5.0	<0.20	<2.0	**0.20 J**	**3.2 J**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.48 J**	**7.3 J**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<0.2	**2.9 J**	**0.93 J**	<0.20	<2.0	<4.0	**3.5 J**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<0.2	**3.5 J**	**0.92 J**	<0.20	<2.0	<4.0	<50
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014	<0.2	**1.7 J**	**1.0 J**	<0.20	<2.0	<4.0	<50
MW-10	W-R2330012-032814-ACN-010	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330012-12214-JCH-028	12/2/2014	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**8.8 J**
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**1.7 J**	**4.5 J**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<0.2	**4.2 J**	<5.0	<0.20	<2.0	**1.2 J**	**2.7 J**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015	<0.2	**4.5 J**	<5.0	<0.20	**0.12 J**	**1.3 J**	**3.4 J**
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<0.2	**4.7 J**	<5.0	<0.20	<2.0	**0.97 J**	**2.2 J**
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016	<0.2	**7.0 J**	<5.0	<0.20	<2.0	**1.1 J**	**4.1 J**
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<0.2	**8.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**5.8 J**
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016	<0.2	**3.5 J**	<5.0	**0.040 J**	<2.0	**4.5**	**8.1 J**
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<0.2	**1.7 J**	<5.0	**0.064 J**	<2.0	**1.0 J**	<50
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**2.9 J**	**13 J**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.93 J**	**4.5 J**
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-111213-ACN-001	11/12/2013	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<0.2	**3.6 J**	<5.0	<0.20	<2.0	**4.3**	**7.9 J**
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014	<0.2	**1.2 J**	<5.0	<0.20	<2.0	**0.65 J**	**1.7 J**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	**0.064 J**	**4.4 J**	<5.0	<0.20	<2.0	**2.8 J**	**7.9 J**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014	**0.064 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.36 J**	**3.1 J**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	**0.063 J**	**4.7 J**	<5.0	<0.20	<2.0	**2.9 J**	**7.7 J**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015	**0.058 J**	**3.0 J**	<5.0	<0.20	<2.0	**0.32 J**	**2.9 J**
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<0.2	**2.2 J**	<5.0	<0.20	<2.0	**2.4 J**	**9.6 J**
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015	<0.2	**0.74 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-11	W-R2330017-111915-AEP-019	11/19/2015	<0.2	**6.4 J**	<5.0	<0.20	<2.0	**3.7 J**	**11 J**
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.2 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201																			
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201																			
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.2 J**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																			
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																			
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	**0.24 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																			
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																			
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																			
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																			
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																			
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																			
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																			
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																			
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																			
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																			
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																			
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																			
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																			
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019																			
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201	
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019	
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<1.0
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013	
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<1.0
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013	
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<1.0
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014	
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<1.0
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<1.0
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015	
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<1.0
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015	
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015	
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016	
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016	
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017	
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019	
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS	**19 J**
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201						**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**190**
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**140**
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017						**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**95**
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	**17 J**
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017						**69**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**180**
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS	**160**
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018						**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**85**
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS	**12**
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018						**1,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2000**	NS	NS	**350**
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS	**83**
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019						**660**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**420**
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	<15	NS	NS	**8.4**
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019						**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1200**	NS	NS	**200**
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	NS	**160**
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.22 J**	**1.4 J**	**1,100**	<1.0	<1.0	**1.9 J**	**4.0 J**	<4.0	<0.005	**15,000**	**0.17 J**	<50	**1,500**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013						**170**	**0.15 J**	**1.2 J**	**1,400**	<1.0	**0.27 J**	**1.2 J**	**1.4 J**	**6.1**		**18,000**	**0.36 J**	<50	**470**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.26 J**	**0.93 J**	**1,500**	<1.0	**0.30 J**	**0.73 J**	**2.4 J**	**3.6 J**	<0.005	**17,000**	**0.062 J**	<50	**420**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013						**89**	**0.16 J**	**0.79 J**	**1,600**	**0.13 J**	**0.33 J**	**1.0 J**	**1.5 J**	**1.5 J**		**12,000**	**0.26 J**	<50	**210**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.16 J**	**0.85 J**	**1,500**	<1.0	**0.68 J**	**0.99 J**	**1.9 J**	**1.3 J**	<0.005	**12,000**	<3.0	<50	**190**
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014						**61**	**0.18 J**	**0.82 J**	**1,200**	<1.0	<1.0	**0.53 J**	**1.9 J**	**3.6 J**		**8,800**	**0.24 J**	<50	**750**
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.19 J**	<5.0	**1,300**	<1.0	<1.0	**0.43 J**	**1.5 J**	**4.6**	**2.2 J**	**9,100**	**0.22 J**	<50	**660**
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014						**1,200**	**0.31 J**	**2.7 J**	**1,600**	<1.0	**0.090 J**	**2.6 J**	**1.3 J**	**3.9 J**		**14,000**	**1.3 J**	<50	**310**
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.22 J**	<5.0	**1,600**	<1.0	<1.0	**0.55 J**	**0.86 J**	<4.0	<5.0	**12,000**	<3.0	<50	**340**
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015						**1,000**	**0.31 J**	**1.4 J**	**1,800**	<1.0	<1.0	**2.2 J**	**1.9 J**	**7.6**		**14,000**	**2.2 J**	<50	**170**
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**5.1 J**	**0.58 J**	<5.0	**1,500**	<1.0	<1.0	**0.58 J**	**1.4 J**	**1.3 J**	<5.0	**12,000**	<3.0	<50	**140**
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015						**340**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**130,000**	NS
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015						**380**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**	NS
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016						**60**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**140**
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**160**
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016						**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**270**
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	**27 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**270**
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017						**36 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**740**
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,000**	NS	NS	**740**
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017						**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**280**
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**250**
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017						**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**280**
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**260**
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**400**
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**420**
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018						**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**240**
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**230**
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019						**610**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**690**
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**700**
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**290**
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**280**
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019						**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**300**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	<0.2	**15 J**	**1.6 J**	**0.047 J**	**0.18 J**	**16**	**27 J**
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<0.2	**3.1 J**	<5.0	<0.20	**0.21 J**	**0.61 J**	**2.9 J**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013	**0.030 J**	**79**	**8.0**	**0.17 J**	**1.3 J**	**90**	**200**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<0.2	**1.9 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013	<0.2	**71**	**2.5 J**	**0.16 J**	**0.91 J**	**67**	**170**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<0.2	**5.3 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330012-032714-ACN-005	3/27/2014	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330012-12114-JCH-021	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-031715-ACN-011	3/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015	<0.2	**5.3 J**	<5.0	<0.20	<2.0	**6.3**	**9.2 J**
MW-12	W-R2330017-112015-AFB-032	11/20/2015	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.3 J**	**2.5 J**
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015	<0.2	**21**	**1.7 J**	**0.080 J**	<2.0	**24**	**53**
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	<0.2	**1.8 J**	<5.0	<0.20	<2.0	**0.48 J**	**3.9 J**
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016	<0.2	**9.4 J**	**0.82 J**	<0.20	<2.0	**4.2**	**11 J**
MW-12	W-R2330021-042116-AFB-027	4/21/2016	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.53 J**	**3.7 J**
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.47 J**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																			
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																			
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																			
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																			
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																			
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																			
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																			
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																			
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																			
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																			
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																			
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																			
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																			
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																			
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																			
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																			
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																			
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019																			
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019	
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019	
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019	
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<1.0
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014	
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014	
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014	
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<1.0
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015	
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<1.0
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015	
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017	
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017	
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018	
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019	
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<1.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<1.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<1.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																	Metals				
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**290**
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019						**2,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**360**
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**280**
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019						**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**720**
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**720**
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**530**
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**520**
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019						**63**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**460**
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**460**
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014						**1,400**	**0.11 J**	**5.6**	**160**	<1.0	<1.0	**2.4 J**	**0.98 J**	**2.8 J**		**4,200**	**2.2 J**	<50	**210**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.063 J**	**4.5 J**	**150**	<1.0	<1.0	<10	**0.23 J**	<4.0	<0.005	**2,100**	**0.052 J**	<50	**180**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014						**980**	**0.063 J**	**5.8**	**150**	<1.0	**0.056 J**	**1.5 J**	**0.80 J**	**2.2 J**		**3,600**	**1.8 J**	<50	**240**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	**21 J**	**0.093 J**	**5.1**	**150**	<1.0	<1.0	<10	**0.65 J**	**0.96 J**	NS	**2,500**	<3.0	<50	**220**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014						**1,200**	**0.071 J**	**6.0**	**150**	<1.0	<1.0	**2.2 J**	**0.85 J**	**3.2 J**		**3,800**	**1.8 J**	<50	**240**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	**19 J**	**0.042 J**	**5.3**	**140**	<1.0	<1.0	**0.50 J**	**0.50 J**	**0.94 J**	NS	**2,500**	<3.0	<50	**230**
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014						**700**	<2.0	**6.3**	**190**	<1.0	**0.075 J**	**1.6 J**	**0.61 J**	**1.7 J**		**4,100**	**1.5 J**	<50	**300**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	**5.8**	**190**	<1.0	<1.0	<10	**0.25 J**	**0.23 J**	<5.0	**3,000**	<3.0	<50	**280**
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015						**2,000**	<2.0	**5.1**	**260**	<1.0	**0.45 J**	**2.9 J**	**1.4 J**	**4.2**		**5,300**	**3.4**	<50	**330**
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**9.8 J**	<2.0	**2.7 J**	**240**	<1.0	**0.050 J**	**0.14 J**	**0.62 J**	**1.0 J**	<5.0	**2,300**	<3.0	<50	**320**
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015						**990**	NS	NS	NS	NS	NS	NS	NS	NS		**4,600**	NS	**22,000**	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	**21,000**	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016						**310**	NS	NS	NS	NS	NS	NS	NS	NS		**3,600**	NS	NS	**400**
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**380**
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**3,900**
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**410**
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**420**
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**430**
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017						**860**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**440**
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**440**
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**510**
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**500**
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018						**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**450**
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**440**
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**450**
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**450**
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019						**780**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**370**
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**360**
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014						**5,400**	**0.35 J**	**10**	**400**	**0.23 J**	**0.28 J**	**8.8 J**	**5.6 J**	**11**		**13,000**	**6.9**	<50	**600**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**56**	**0.24 J**	**5.1**	**370**	**0.097 J**	**0.16 J**	**0.30 J**	**1.3 J**	<4.0	<0.005	**2,000**	**0.20 J**	<50	**250**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014						**25,000**	**1.0 J**	**46**	**730**	**1.2**	**1.4**	**48**	**34**	**74**		**72,000**	**52**	<50	**3,800**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**45 J**	**0.18 J**	**11**	**550**	<1.0	**0.088 J**	<10	**0.59 J**	**0.21 J**	<5.0	**3,600**	<3.0	<50	**210**
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015						**28,000**	**1.3 J**	**51**	**740**	**0.77 J**	**1.4**	**35**	**25**	**60**		**60,000**	**45**	<50	**2700**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	**6.7**	**450**	<1.0	**0.041 J**	**0.15 J**	**0.97 J**	**1.5 J**	<5.0	**2,800**	<3.0	<50	**180**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015						**2,200**	NS	NS	NS	NS	NS	NS	NS	NS		**7,200**	NS	**30,000**	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	**22 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	**25,000**	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016						**2,100**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	NS	**220**
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**140**
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016						**96**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**180**
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**180**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	<0.2	**5.5 J**	<5.0	<0.20	<2.0	**6.4**	**11 J**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.57 J**	**1.1 J**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**1.9 J**	**5.3 J**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	<0.2	**1.4 J**	<5.0	<0.20	<2.0	**0.68 J**	**4.5 J**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**4.0 J**	**12 J**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.52 J**	<50
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**3.9 J**	**12 J**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.55 J**	<50
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-031615-ACN-007	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	<0.2	**5.5 J**	**0.68 J**	<0.20	<2.0	**3.8 J**	**9.9 J**
MW-17	W-R2330021-110116-AEM-009	11/1/2016	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.32 J**	**1.9 J**
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.8 J**	**8.2 J**
MW-17	W-R2330022-042517-AFB-011	4/25/2017	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	**4.5 J**
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017	<0.2	**7.7 J**	<5.0	**0.038 J**	<2.0	**8.5**	**18 J**
MW-17	W-R2330022-102617-AFB-023	10/26/2017	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330012-052014-ACN-026	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330012-112414-ACN-001	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-031615-JCH-003	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	<0.2	**23**	**2.7 J**	<0.20	<2.0	**24**	**81**
MW-18	W-R2330021-041916-AEP-009	4/19/2016	<0.2	**3.2 J**	<5.0	<0.20	<2.0	**0.64 J**	**2.2 J**
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.1 J**	**6.8 J**
MW-18	W-R2330021-110316-AEM-025	11/3/2016	<0.2	**3.7 J**	<5.0	<0.20	<2.0	<4.0	**23 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.78 J**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																			
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																			
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																			
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																			
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																			
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019	
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<1.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014	
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<1.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015	
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<1.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015	
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016	
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS
MW-19[A]	DUP 1	4/19/2016	
MW-19	DUP 1	4/19/2016	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016	
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017	
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019	
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<1.0
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<1.0
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015	
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<1.0
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015	
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<1.0
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015	
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017						**2,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**420**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**150**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017						**5,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**880**
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**160**
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018						**7,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**1700**
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**130**
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018						**580**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**590**
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**230**
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**250**
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**190**
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019						**540**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**240**
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**180**
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014						**1,900**	**0.089 J**	**6.2**	**350**	<1.0	**0.062 J**	**3.5 J**	**1.5 J**	**3.4 J**		**5,300**	**1.6 J**	<50	**350**
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**120**	**0.12 J**	**4.5 J**	**320**	<1.0	<1.0	**0.53 J**	**1.1 J**	0.87 J	**1.2 J**	**2,400**	**0.088 J**	<50	**300**
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014						**7,900**	**0.49 J**	**14**	**380**	**0.34 J**	**0.27 J**	**16**	**6.7 J**	**17**		**16,000**	**9.7**	<50	**560**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**74**	**0.15 J**	**6.3**	**330**	<1.0	**0.054 J**	**0.30 J**	**0.93 J**	**0.18 J**	<5.0	**2,000**	<3.0	<50	**350**
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015						**1,600**	**0.12 J**	**11**	**510**	<1.0	<1.0	**2.8 J**	**1.9 J**	**4.1**		**6,600**	**1.7 J**	<50	**520**
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.14 J**	**5 J**	**540**	<1.0	<1.0	**0.3 J**	**0.91 J**	**1.8 J**	<5.0	**3,500**	<3.0	<50	**460**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015						**4,100**	NS	NS	NS	NS	NS	NS	NS	NS		**11,000**	NS	**38,000**	NS
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	**34,000**	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	**25 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**420**
MW-19[A]	DUP 1	4/19/2016						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**420**
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**360**
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**350**
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017						**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**360**
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**370**
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017						**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**520**
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**520**
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018						**740**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**390**
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**380**
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018						**1,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**390**
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**350**
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**420**
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**400**
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019						**690**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**510**
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**500**
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014						**1,800**	**0.15 J**	**9.5**	**340**	<1.0	**0.061 J**	**3.8 J**	**1.6 J**	**5.1**		**9,600**	**2.7 J**	<50	**280**
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.065 J**	**5.6**	**330**	<1.0	<1.0	**0.39 J**	**0.71 J**	**1.1 J**	<0.005	**4,900**	<3.0	<50	**200**
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014						**330**	<2.0	**8.8**	**290**	<1.0	<1.0	**0.90 J**	**0.49 J**	**1.2 J**		**4,200**	**0.69 J**	<50	**160**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**100**	<2.0	**7.7**	**300**	<1.0	<1.0	**0.39 J**	**0.66 J**	**0.32 J**	<5.0	**3,600**	<3.0	<50	**150**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015						**1,600**	**0.14 J**	**7.5**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.9**		**7,000**	**2.8 J**	<50	**210**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**64**	**0.13 J**	**5.8**	**260**	<1.0	<1.0	**0.36 J**	**0.73 J**	**0.98 J**	<5.0	**4,200**	<3.0	<50	**170**
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015						**1,600**	**0.13 J**	**7.6**	**250**	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.7**		**7,100**	**2.8 J**	<50	**210**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**43 J**	<2.0	**6.1**	**250**	<1.0	<1.0	**0.28 J**	**0.61 J**	**0.93 J**	<5.0	**4,900**	<3.0	<50	**170**
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015						**2,600**	NS	NS	NS	NS	NS	NS	NS	NS		**10,000**	NS	**56,000**	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**55,000**	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016						**46 J**	NS	NS	NS	NS	NS	NS	NS	NS		**3,500**	NS	NS	**140**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.75 J**	**5.6 J**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	<0.2	**3.8 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	<0.2	**6.5 J**	<5.0	<0.20	<2.0	**1.5 J**	**8.6 J**
MW-18	W-R2330022-102517-AFB-018	10/25/2017	<0.2	**5.9 J**	<5.0	<0.20	<2.0	**0.71 J**	**5.9 J**
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330012-052014-ACN-027	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330012-112414-ACN-002	11/24/2014	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330017-031615-JCH-004	3/16/2015	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015	<0.2	**4.4 J**	**0.92 J**	<0.20	<2.0	**2.5 J**	**7.2 J**
MW-19	W-R2330017-111715-AFB-008	11/17/2015	<0.2	**3.3 J**	<5.0	<0.20	<2.0	**1.1 J**	**2.2 J**
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016	<0.2	**4.4 J**	**0.72 J**	<0.20	<2.0	**2.6 J**	**7.3 J**
MW-19	W-R2330021-041916-JPM-010	4/19/2016	<0.2	**3.1 J**	<5.0	<0.20	<2.0	**0.84 J**	**1.9 J**
MW-19[A]	DUP 1	4/19/2016	<0.2	**25**	**2.8 J**	**0.059 J**	<2.0	**29**	**100**
MW-19	DUP 1	4/19/2016	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.5 J**
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016	<0.2	**7.4 J**	**0.76 J**	**0.023 J**	<2.0	**3.3 J**	**9.2 J**
MW-19	W-R2330021-110316-AEM-027	11/3/2016	<0.2	**6.3 J**	<5.0	**0.020 J**	<2.0	**1.2 J**	**4.1 J**
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330012-052014-ACN-028	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	<0.2	**3.8 J**	**0.69 J**	<0.20	<2.0	**0.69 J**	**4.9 J**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	**1.7 J**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015	<0.2	**1.7 J**	<5.0	<0.20	<2.0	<4.0	**4.7 J**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<0.2	**0.93 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<0.2	**3.1 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<0.2	**2.8 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<25	<1.0	<1.0	<50	**12 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																			
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																			
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																			
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																			
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																			
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																			
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																			
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019																			
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.87 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																			
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**1.5 J**	<10	<10	<4.0	**1.2 J**	<5.0	**0.88 J**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																			
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																			
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																			
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																			
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017	
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017	
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018	
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019	
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<1.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<1.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<1.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS
MW-21[A] (DUP)	DUP 1	11/18/2015	
MW-21 (DUP)	DUP 1	11/18/2015	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019	
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<1.0
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<1.0
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014	
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<1.0
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015	
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<1.0
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015	
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**150**
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**170**
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**160**
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**180**
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**180**
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017						**200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**180**
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**190**
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017						**960**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**160**
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**140**
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018						**680**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**180**
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	**45**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**160**
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018						**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**170**
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**160**
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019						**1,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**250**
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**200**
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**210**
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**210**
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014						**1,400**	**0.16 J**	**1.9 J**	**38 J**	<1.0	<1.0	**2.4 J**	**1.7 J**	**4.1**		**2,400**	**1.4 J**	<50	**60**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**48 J**	**0.16 J**	<5.0	**31 J**	<1.0	<1.0	<10	**0.91 J**	**1.2 J**	<0.005	**56 J**	<3.0	<50	**9.1 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014						**480**	**0.15 J**	**1.1 J**	**81 J**	<1.0	**0.076 J**	**1.1 J**	**0.89 J**	**2.0 J**		**850**	**0.72 J**	<50	**52**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**0.70 J**	**72 J**	<1.0	**0.061 J**	**0.22 J**	**0.70 J**	**0.98 J**	<5.0	**42 J**	<3.0	<50	**37 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015						**3,000**	**0.23 J**	**2.2 J**	**73 J**	<1.0	**0.21 J**	**5.1 J**	**2.5 J**	**6.2**		**4,100**	**2.9 J**	<50	**100**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.19 J**	<5.0	**62 J**	<1.0	**0.078 J**	**0.14 J**	**0.89 J**	**0.41 J**	<5.0	**20 J**	<3.0	<50	**25 J**
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015						**34 J**	NS	NS	NS	NS	NS	NS	NS	NS		**59 J**	NS	**21,000**	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	**21,000**	NS
MW-21[A] (DUP)	DUP 1	11/18/2015						**27 J**	NS	NS	NS	NS	NS	NS	NS	NS		**47 J**	NS	**20,000**	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	**21,000**	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**320**	NS	NS	**4.6 J**
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**50 J**	NS	NS	**3.8 J**
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016						**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	NS	**35 J**
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14 J**	NS	NS	**36 J**
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**220**	NS	NS	**33 J**
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	**6.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	NS	**24 J**
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**46**
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	**43**
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018						**270**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**150**
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**120**
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93**	NS	NS	**160**
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**52**	NS	NS	**110**
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014						**8,100**	**0.78 J**	**14**	**540**	<1.0	**0.56 J**	**14**	**9.5 J**	**31**		**21,000**	**19**	<50	**730**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**4.3 J**	**440**	<1.0	<1.0	<10	**2.2 J**	**0.64 J**	**1.3 J**	**3,100**	**0.079 J**	<50	**360**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014						**200**	**0.18 J**	**16**	**1,300**	<1.0	**0.11 J**	**1.1 J**	**1.9 J**	**1.3 J**		**11,000**	**0.62 J**	<50	**250**
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.22 J**	**15**	**1,300**	<1.0	<1.0	**0.70 J**	**1.7 J**	<4.0	<5.0	**11,000**	<3.0	<50	**240**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014						**160**	<2.0	**16**	**1,300**	<1.0	**0.095 J**	**0.80 J**	**1.7 J**	**1.1 J**		**11,000**	<3.0	<50	**270**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.11 J**	**16**	**1,300**	<1.0	<1.0	**0.61 J**	**1.7 J**	**0.37 J**	**17**	**11,000**	<3.0	<50	**260**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015						**340**	**0.17 J**	**14**	**1,300**	<1.0	<1.0	**1.3 J**	**2.2 J**	**4.0**		**13,000**	**2.3 J**	<50	**270**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.23 J**	**13**	**1,400**	<1.0	<1.0	**0.54 J**	**2.1 J**	**1.8 J**	**6.0**	**12,000**	<3.0	<50	**250**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015						**95**	NS	NS	NS	NS	NS	NS	NS	NS		**7,000**	NS	**120,000**	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	**120,000**	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	<0.2	**6.3 J**	**2.4 J**	<0.20	<2.0	**6.8**	**12 J**
MW-20	W-R2330022-042517-DMS-010	4/25/2017	<0.2	**2.3 J**	1.7 J	<0.20	<2.0	**0.35 J**	**2.2 J**
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017	<0.2	**6.5 J**	**1.1 J**	<0.20	<2.0	**1.4 J**	**6.1 J**
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	<4.0	**4.4 J**
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017	<0.2	**4.9 J**	**1.2 J**	<0.20	<2.0	**1.5 J**	**6.3 J**
MW-20	W-R2330022-102617-AFB-022	10/26/2017	<0.2	**4.8 J**	**1.1 J**	<0.20	<2.0	<4.0	**8.4 J**
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-051914-ACN-021	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-112514-ACN-006	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330017-032015-JCH-023	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	<0.2	**4.3 J**	**0.9 J**	<0.20	<2.0	**3.1 J**	**7.3 J**
MW-21	W-R2330012-111815-JPM-013	11/18/2015	<0.2	**0.23 J**	<5.0	<0.20	<2.0	**0.41 J**	**1.6 J**
MW-21[A] (DUP)	DUP 1	11/18/2015	<0.2	**2.7 J**	**0.86 J**	<0.20	<2.0	**0.98 J**	**4.5 J**
MW-21 (DUP)	DUP 1	11/18/2015	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	**3.0 J**
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**7.0**	**16 J**
MW-21	W-R2330012-042016-JPM-015	4/20/2016	<0.2	**2.9 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330012-051914-ACN-022	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	**0.064 J**	**9.1 J**	<5.0	<0.20	<2.0	**1.1 J**	**7.0 J**
MW-22	W-R2330012-112514-ACN-007	11/25/2014	**0.062 J**	**8.8 J**	<5.0	<0.20	<2.0	**0.55 J**	**5.0 J**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<0.2	**9.3 J**	**1.1 J**	<0.20	<2.0	**1.9 J**	**11 J**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<0.2	**7.5 J**	**0.79 J**	<0.20	<2.0	**0.66 J**	**4.2 J**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015	<0.2	**5.7 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.0 J**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<0.2	**6.8 J**	**0.97 J**	**0.095 J**	<2.0	<4.0	**3.1 J**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018																			
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<25	<1.0	<1.0	<50	<50	**3.7**	<1.0	<5.0	**40**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<25	<1.0	<1.0	<50	<50	**4.2**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<25	<1.0	<1.0	<50	<50	**5.4**	<1.0	<5.0	**89**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<25	<1.0	<1.0	<50	<50	**4.1**	<1.0	<5.0	**72**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<25	<1.0	<1.0	<50	<50	**2.5**	<1.0	<5.0	**36**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<25	<1.0	<1.0	<50	**3.2 J**	**1.2**	<1.0	<5.0	**18**	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	<25	<1.0	<1.0	<50	**2.2 J**	**2.7**	<1.0	<5.0	**43**	<5.0	<0.17	<1.0	**0.60 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	<25	<1.0	<1.0	<50	<50	**4.0**	<1.0	<5.0	**65**	<5.0	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	<25	<1.0	<1.0	<50	<50	**2.1**	<1.0	<5.0	**42**	<5.0	<0.68	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.52	<0.32	<0.32	<0.52	<6.2	**2.1**	<0.49	<0.49	**58**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	<25	<1.0	<1.0	<50	**1.6 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																			
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																			
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																			
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																			
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018																			
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019																			
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																			
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.85 J**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.91 J**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0**	<5.0	**1.6 J**	<10	<4.0	<5.0	<5.0	<5.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																			
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																			
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																			
MW-23	W-R2330022-042717-DMS-024	4/27/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																			
MW-23	W-R2330022-102517-DMS-016	10/25/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																			
MW-23	W-R2330024-042418-DMS-014	4/24/2018	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																			
MW-23	W-R2330025-110119-SCD-037	11/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																			
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																			
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																			
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																			
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																			
MW-24	W-R2330021-042116-AFB-018	4/21/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																			
MW-24	W-R2330021-110316-JPM-022	11/3/2016	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018	
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019	
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019	
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<1.0
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014	
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<1.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014	
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<1.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015	
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<1.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015	
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016	
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017	
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019	
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<1.0
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014	
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<1.0
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015	
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<1.0
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015	
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016						**37 J**	NS	NS	NS	NS	NS	NS	NS	NS		**6,500**	NS	NS	**88**
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	**41 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**82**
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016						**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017						**17 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**140**
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**130**
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017						**41**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**72**
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**67**
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018						**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**110**
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**110**
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019						**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**67**
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,600**	NS	NS	**76**
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**75**
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**82**
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014						**560**	**0.15 J**	**13**	**610**	<1.0	<1.0	**1.7 J**	**2.2 J**	**2.1 J**		**13,000**	**1.2 J**	<50	**180**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**7.7 J**	**0.089 J**	**12**	**560**	<1.0	<1.0	**0.76 J**	**1.9 J**	<4.0	<0.005	**12,000**	**0.067 J**	<50	**160**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014						**590**	**0.11 J**	**12**	**580**	<1.0	<1.0	**1.7 J**	**2.1 J**	**2.2 J**		**13,000**	**1.3 J**	<50	**180**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.5 J**	**0.076 J**	**12**	**550**	<1.0	<1.0	**0.70 J**	**1.8 J**	<4.0	<0.005	**11,000**	<3.0	<50	**150**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014						**6,700**	**1.1 J**	**46**	**1,300**	**0.31 J**	**0.68 J**	**18**	**9.3 J**	**37**		**35,000**	**30**	<50	**310**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**21 J**	**0.20 J**	**26**	**1,100**	<1.0	**0.037 J**	**1.3 J**	**2.4 J**	**0.18 J**	<5.0	**18,000**	<3.0	<50	**78**
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015						**650**	**0.20 J**	**17**	**940**	<1.0	<1.0	**2.2 J**	**3.1 J**	**3.7 J**		**17,000**	**2.6 J**	<50	**120**
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.21 J**	**16**	**860**	<1.0	<1.0	**0.96 J**	**2.8 J**	**2.3 J**	<5.0	**16,000**	**0.82 J**	<50	**99**
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015						**180**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**130,000**	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	**5.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	**130,000**	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016						**190**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS	**89**
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**99**
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016						**570**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**100**
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**92**
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**85**
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	**4.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**80**
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017						**65**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**90**
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**91**
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**7.9**
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**7.3**
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019						**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**77**
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**77**
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014						**310**	<2.0	**5.7**	**170**	<1.0	<1.0	**0.57 J**	**0.50 J**	**1.6 J**		**5,300**	**0.38 J**	<50	**640**
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.074 J**	**5.2**	**160**	<1.0	<1.0	<10	**0.76 J**	**0.75 J**	<0.005	**4,700**	<3.0	<50	**620**
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014						**12 J**	<2.0	**4.6 J**	**130**	<1.0	**0.051 J**	**0.13 J**	**0.25 J**	<4.0		**2,500**	<3.0	<50	**690**
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**4.9 J**	**130**	<1.0	<1.0	<10	**0.19 J**	<4.0	<5.0	**2,100**	<3.0	<50	**670**
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015						**84**	<2.0	**7.4**	**140**	<1.0	**0.24 J**	**0.68 J**	**0.56 J**	**1.8 J**		**5,900**	**0.47 J**	<50	**740**
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.19 J**	**3.2 J**	**130**	<1.0	**0.066 J**	<10	**0.57 J**	**1.3 J**	<5.0	**2,600**	**0.36 J**	<50	**700**
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015						**260**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**48,000**	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**47,000**	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016						**170**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**840**
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	**39 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**920**
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016						**730**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**820**
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**760**
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017						**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**990**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.2 J**	**6.8 J**
MW-22	W-R2330022-102517-AFB-014	10/25/2017	<0.2	**3.3 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	<0.2	**4.3 J**	<5.0	<0.20	<2.0	**0.99 J**	**6.4 J**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<0.2	**8.0 J**	<5.0	<0.20	<2.0	**3.4 J**	**17 J**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<0.2	**3.9 J**	<5.0	<0.20	<2.0	<4.0	**5.4 J**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330012-112514-ACN-009	11/25/2014	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-032015-ACN-028	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.6 J**	**8.0 J**
MW-23	W-R2330021-042016-JPM-020	4/20/2016	<0.2	**1.6 J**	<5.0	<0.20	<2.0	**0.68 J**	**3.8 J**
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016	<0.2	**2.0 J**	<5.0	<0.20	<2.0	**0.96 J**	**4.6 J**
MW-23	W-R2330021-110216-JPM-016	11/2/2016	<0.2	**1.7 J**	<5.0	<0.20	<2.0	**0.91 J**	**5.3 J**
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330012-052014-ACN-030	5/20/2014	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330012-112614-JCH-013	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-032015-ACN-026	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	<25	<1.0	<1.0	<50	**2.8 J**	<1.0	<1.0	<5.0	<1.0	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.52	<0.32	<0.35	<0.52	**9.8 J**	<0.46	<0.49	<0.49	<0.40	<0.68	**0.94 J**	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																			
MW-24	W-R2330022-102517-AFB-017	10/25/2017	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018																			
MW-24	W-R2330024-042418-DMS-009	4/24/2018	<3.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																			
MW-24	W-R2330025-110119-SCD-035	11/1/2019	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.80 J**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<3.0	<10	<10	**0.40 J**	<10	<10	<5.0	<10	<5.0	**0.30 J**	<5.0	<10	<5.0	<10	<10	**0.38 J**	<5.0	<5.0	<5.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																			
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																			
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																			
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																			
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																			
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																			
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019																			
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																			
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																			
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																			
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																			
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																			
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																			
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																			
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																			
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018																			
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019																			
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018	
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019	
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<1.0
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<1.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<1.0
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015	
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017	
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018	
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019	
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<1.0
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014	
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<1.0
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015	
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<1.0
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015	
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018	
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019	
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																	Metals				
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**970**
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017						**27**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**700**
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**710**
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018						**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**1000**
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**960**
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019						**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS	**760**
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**770**
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014						**2,600**	**0.24 J**	**1.9 J**	**83 J**	<1.0	<1.0	**3.8 J**	**1.5 J**	**7.4**		**3,800**	**2.5 J**	<50	**190**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.21 J**	**0.63 J**	**68 J**	<1.0	<1.0	<10	**0.59 J**	**3.7 J**	<0.005	**110 J**	**0.25 J**	<50	**150**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014						**400**	**0.18 J**	**0.85 J**	**72 J**	<1.0	**0.11 J**	**1.3 J**	**0.53 J**	**3.2 J**		**570**	**0.59 J**	<50	**340**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.15 J**	<5.0	**66 J**	<1.0	**0.071 J**	<10	**0.33 J**	**2.9 J**	<5.0	**16 J**	<3.0	<50	**250**
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015						**450**	**0.22 J**	**0.88 J**	**72 J**	<1.0	**0.060 J**	**0.84 J**	**0.77 J**	**4.2**		**620**	**0.57 J**	<50	**310**
MW-25	W-R2330017-032015-JCH-025	3/20/2015	**0.13 J**	**0.71 J**	<2.0	<5.0	<5.0	**12 J**	**0.28 J**	<5.0	**67 J**	<1.0	**0.061 J**	<10	**0.63 J**	**6.2**	<5.0	**28 J**	**0.37 J**	<50	**110**
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015						**6,000**	NS	NS	NS	NS	NS	NS	NS	NS		**14,000**	NS	**30,000**	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	**46 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**63 J**	NS	**16,000**	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016						**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**2,400**	NS	NS	**990**
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS	**68**
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**370**
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**230**
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017						**720**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**580**
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**95**
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017						**190**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**570**
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**320**
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**1,100**
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**45**
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019						**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**3,300**
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**210**
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014						**900**	**0.37 J**	**2.7 J**	**37 J**	<1.0	<1.0	**1.8 J**	**1.2 J**	**4.6**		**1,900**	**1.1 J**	<50	**110**
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**36 J**	**0.39 J**	**1.5 J**	**34 J**	<1.0	<1.0	<10	**1.1 J**	**1.0 J**	<0.005	**55 J**	<3.0	<50	**86**
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014						**210**	**0.22 J**	<5.0	**25 J**	<1.0	**0.13 J**	**0.52 J**	**0.65 J**	**2.0 J**		**360**	<3.0	<50	**69**
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.16 J**	<5.0	**24 J**	<1.0	**0.079 J**	<10	**0.54 J**	**1.0 J**	<5.0	<200	<3.0	<50	**65**
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015						**2,200**	**0.33 J**	**3.5 J**	**34 J**	<1.0	**0.16 J**	**4.5 J**	**2.1 J**	**7.8**		**4,300**	**3.4**	<50	**100**
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**82**	**0.27 J**	<5.0	**21 J**	<1.0	**0.070 J**	**0.29 J**	**0.80 J**	**2.2 J**	<5.0	**130 J**	<3.0	<50	**25 J**
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015						**910**	NS	NS	NS	NS	NS	NS	NS	NS		**2,300**	NS	**21,000**	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	**20,000**	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS	**58**
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**11 J**
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016						**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**910**	NS	NS	**45 J**
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**250**
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017						**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	NS	**19 J**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23 J**	NS	NS	**5.8 J**
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017						**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**480**	NS	NS	**71**
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS	**62**
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018						**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	NS	**17**
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<300	NS	NS	**5.4**
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019						**440**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**650**	NS	NS	**26**
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**22**
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014						**190**	**0.61 J**	**4.7 J**	**240**	<1.0	**0.097 J**	**0.69 J**	**2.4 J**	**3.7 J**		**1,700**	**0.70 J**	NS	**160**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	**5.8 J**	**0.58 J**	**4.5 J**	**240**	<1.0	<1.0	<10	**2.9 J**	**1.9 J**	NS	**1,500**	**0.076 J**	<50	**160**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330012-051914-ACN-025	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330012-112614-JCH-012	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-032015-JCH-025	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	<0.2	**7.4 J**	<5.0	<0.20	<2.0	**3.3 J**	**13 J**
MW-25	W-R2330022-042717-DMS-026	4/27/2017	<0.2	**3.6 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330012-051914-ACN-020	5/19/2014	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330012-112614-JCH-011	11/26/2014	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-032015-ACN-024	3/20/2015	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**7.8 J**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**0.76 J**	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	<0.2	**2.4 J**	<5.0	<0.20	<2.0	<4.0	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																			
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																			
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																			
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019																			
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																			
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																			
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																			
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																			
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																			
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																			
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<1.0
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015	
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<1.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015	
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016	
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018	
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019	
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<1.1
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015	
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<1.1
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015	
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<1.0
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015	
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016	
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014						**460**	**0.25 J**	**2.7 J**	**200**	<1.0	**0.063 J**	**1.2 J**	**2.5 J**	**4.2**		**1,900**	**1.2 J**	<50	**140**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<5.0	<5.0	<2.0	<5.0	<5.0	**32 J**	**0.18 J**	**2.2 J**	**290**	<1.0	<1.0	**0.22 J**	**2.1 J**	**1.4 J**	<5.0	**2,600**	<3.0	<50	**110**
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015						**270**	**0.43 J**	**0.97 J**	**210**	<1.0	**0.13 J**	**0.76 J**	**1.9 J**	**2.3 J**		**2,200**	**0.62 J**	<50	**72**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.67 J**	**0.75 J**	**260**	<1.0	**0.23 J**	**0.35 J**	**2.4 J**	**1.3 J**	<5.0	**1,900**	<3.0	<50	**80**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	**2.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016						**59**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	NS	**94**
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	**3.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**100**
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS		**6,300**	NS	NS	**110**
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**100**
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**6,200**	NS	NS	**110**
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**110**
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017						**71**	NS	NS	NS	NS	NS	NS	NS	NS		**5,600**	NS	NS	**100**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**90**
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017						**35**	NS	NS	NS	NS	NS	NS	NS	NS		**4,800**	NS	NS	**92**
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**91**
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018						**170**	NS	NS	NS	NS	NS	NS	NS	NS		**5,200**	NS	NS	**110**
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	**4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**100**
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018						**48**	NS	NS	NS	NS	NS	NS	NS	NS		**2,800**	NS	NS	**120**
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019						**71**	NS	NS	NS	NS	NS	NS	NS	NS		**7,100**	NS	NS	**850**
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	**3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**830**
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019						**10**	NS	NS	NS	NS	NS	NS	NS	NS		**3,000**	NS	NS	**780**
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**780**
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS		**23,000**	NS	NS	**400**
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS	**400**
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015						**530**	<2.0	**2.5 J**	**200**	<1.0	0.046 J	**1.3 J**	**1.4 J**	**1.6 J**		**3,200**	**2.0 J**	<50	**410**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**8.8 J**	<2.0	**2.3 J**	**200**	<1.0	<1.0	<10	**1.1**	**0.35 J**	<5.0	**2,400**	<3.0	<50	**380**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015						**370**	<2.0	**2.1 J**	**200**	<1.0	**0.065 J**	**1.3 J**	**1.3 J**	**0.88 J**		**2,900**	**0.60 J**	<50	**400**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	<2.0	**2.4**	**200**	<1.0	<1.0	<10	**1.3 J**	<4.0	<5.0	**2,500**	<3.0	<50	**400**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015						**1,400**	**0.11 J**	**6.2**	**220**	<1.0	**0.11 J**	**3.3 J**	**2.0 J**	**5.6**		**5,400**	**2.8 J**	<50	**400**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**3.1 J**	**220**	<1.0	**0.048 J**	<10	**1.0 J**	**1.3 J**	<5.0	**2,800**	<3.0	<50	**400**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015						**420**	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	**21,000**	NS
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	**20,000**	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS		**5,400**	NS	NS	**260**
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**250**
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**3,000**	NS	NS	**300**
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**290**
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017						**18 J**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	NS	**240**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**250**
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017						**12**	NS	NS	NS	NS	NS	NS	NS	NS		**2,900**	NS	NS	**210**
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**210**
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018						42	NS	NS	NS	NS	NS	NS	NS	NS		**4,100**	NS	NS	**250**
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**250**
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018						**15.0**	NS	NS	NS	NS	NS	NS	NS	NS		**3,600**	NS	NS	**66**
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	**110.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**210**
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019						**230.0**	NS	NS	NS	NS	NS	NS	NS	NS		**4,900**	NS	NS	**160**
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**180**
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019						**40**	NS	NS	NS	NS	NS	NS	NS	NS		**3,100**	NS	NS	**170**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330012-12114-JCH-018	12/1/2014	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015	<0.2	<20	<5.0	<5.0	<5.0	<4.0	**1,500**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<0.2	<20	<5.0	<5.0	<5.0	<4.0	**4.0 J**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015	**0.98**	**410**	**13 J**	**0.78 J**	**7.6 J**	**380**	**22 J**
MW-27	W-R2330017-111915-JPM-020	11/19/2015	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.20 J**	**4.8 J**
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	<0.2	**22**	**0.68 J**	<0.20	**0.35 J**	**7.3**	**8.1 J**
MW-27	W-R2330021-042216-AFB-031	4/22/2016	<0.2	**12 J**	**0.68 J**	<0.20	<2.0	**0.19 J**	**3.0 J**
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	<0.2	**10 J**	**0.77 J**	<0.20	<2.0	**2.4 J**	**2,200**
MW-27	W-R2330021-110416-JPM-033	11/4/2016	<0.2	**8.5 J**	**0.84 J**	<0.20	<2.0	**0.17 J**	**26 J**
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**0.39**	**86 J**	<5.0	**2.7**	<2.0	**86**	**210 J**
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	<0.2	**10 J**	<5.0	<0.20	**1.1 J**	**1.3 J**	**24 J**
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	<0.2	**20 J**	<5.0	<0.20	<2.0	**4.0 J**	**420 J**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	<0.2	**16 J**	<5.0	<0.20	**0.081 J**	**0.77 J**	**5.6 J**
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	**0.12 J**	**130 J**	**12 J**	<0.20	**0.96 J**	**9.3**	**580**
MW-27	W-R2330022-102417-DMS-009	10/24/2017	<0.2	**9.1 J**	**0.76 J**	<0.20	<2.0	**1.7 J**	**4.8 J**
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	**0.30**	**210**	**9.8 J**	**0.53 J**	**2.4 J**	**86**	**1,700**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<0.2	**14 J**	**0.73 J**	<0.20	<2.0	**0.38 J**	**4.5 J**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015	**0.95**	**1,100**	**27 J**	**1.7 J**	**6.3 J**	**590**	**2,900**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<0.2	**5.0 J**	<5.0	<0.20	**0.26 J**	**3.2 J**	**14 J**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015	**0.51**	**1,100**	**47 J**	**2.5**	**13 J**	**660**	**680**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<0.2	**14 J**	**0.75 J**	<0.20	<2.0	**0.67 J**	**19 J**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015	<0.2	**210**	**9.4 J**	<0.20	**2.3 J**	**180**	**140 J**
MW-29	W-R2330017-112015-AFB-028	11/20/2015	<0.2	**25**	<5.0	<0.20	<2.0	**0.46 J**	**18 J**
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016	<0.2	**53 J**	<5.0	<0.20	<2.0	**46**	**800**
MW-29	W-R2330021-042216-AFB-033	4/22/2016	<0.2	**24**	<5.0	<0.20	<2.0	<4.0	**4.2 J**
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	**0.23**	**310**	**13 J**	**0.75 J**	**3.3 J**	**320**	**470 J**
MW-29	W-R2330021-110416-AEM-031	11/4/2016	<0.2	**15 J**	<5.0	<0.20	<2.0	**0.49 J**	**18 J**
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	**0.13**	**51 J**	<5.0	<0.20	<2.0	**24 J**	**950**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	<0.2	**12 J**	<5.0	<0.20	<2.0	**1.7 J**	<500
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**44**
MW-29	W-R2330022-102617-AFB-024	10/26/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<27
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																			
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																			
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																			
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																			
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																			
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																			
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																			
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																			
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																			
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																			
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																			
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																			
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019																			
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																			
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<1.1
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015	
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<1.0
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015	
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016	
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS
MW-30[A]	DUP 2	4/22/2016	
MW-30	DUP 2	4/22/2016	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016	
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017	
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017	
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018	
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019	
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019	
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015	
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**170**
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015						**580**	**0.30 J**	**4.3 J**	**120**	<1.0	**0.53 J**	**1.7 J**	**0.30 J**	**3.9 J**		**500**	**1.3 J**	<50	**72**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	**0.39 J**	**3.2 J**	**110**	<1.0	**0.45 J**	<10	**0.28 J**	**1.1 J**	**5.0**	**18 J**	<3.0	<50	**67**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015						**110**	**0.28 J**	**1.6 J**	**95 J**	<1.0	**0.54 J**	**0.34 J**	**0.19 J**	**2.2 J**		**100 J**	<3.0	<50	**47 J**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**5.8 J**	**0.44 J**	**2.3 J**	**110**	<1.0	**0.22 J**	<10	**0.62 J**	**1.6 J**	<5.0	**180 J**	<3.0	<50	**110**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015						**54**	NS	NS	NS	NS	NS	NS	NS	NS		**310**	NS	**14,000**	NS
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**740**	NS	**13,000**	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016						**21 J**	NS	NS	NS	NS	NS	NS	NS	NS		**710**	NS	NS	**110**
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**130**
MW-30[A]	DUP 2	4/22/2016						**18 J**	NS	NS	NS	NS	NS	NS	NS	NS		**650**	NS	NS	**120**
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**120**
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016						**28 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**94**
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**990**	NS	NS	**100**
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017						**35 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**75**
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**96**
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017						**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**75**
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	**38**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**920**	NS	NS	**70**
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018						**70**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**620**	NS	NS	**110**
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	**6.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**92**
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018						**4.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**120**
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	**95**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**730**	NS	NS	**52**
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019						**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**81**
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	**8.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**92**
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019						**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**100**
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**68**
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019						**310**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**64**
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**630**	NS	NS	**59**
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015						**330**	NS	NS	NS	NS	NS	NS	NS	NS		**490**	NS	<50	**240**
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**55 J**	NS	<50	**240**
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015						**3,400**	NS	NS	NS	NS	NS	NS	NS	NS		**5,900**	NS	**27,000**	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	**17,000**	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016						**12**	NS	NS	NS	NS	NS	NS	NS	NS		**130**	NS	NS	**360**
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**390**
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016						**14 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**400**
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110 J**	NS	NS	**370**
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017						**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**870**	NS	NS	**410**
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150 J**	NS	NS	**420**
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017						**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**440**
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS	**430**
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018						**480**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**630**
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS	**400**
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018						**1,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**830**
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	**6.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140**	NS	NS	**280**
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019						**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**590**
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**530**
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**610**
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**590**
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015						**1,400**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	<50	**95**
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	<50	**62**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	**0.15**	**22 J**	<5.0	<0.20	<2.0	**19 J**	**210 J**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<0.2	**8.2 J**	<5.0	<0.20	<2.0	<4.0	**16 J**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015	**0.1**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**9,900**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<0.2	**19 J**	<5.0	<2.0	<2.0	<4.0	**61 J**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015	<0.2	**31 J**	<5.0	<0.20	<2.0	**2.4 J**	**44 J**
MW-30	W-R2330017-112015-JPM-029	11/20/2015	<0.2	**19 J**	<5.0	<0.20	<2.0	**2.4 J**	**27 J**
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016	**2.2**	**320**	<5.0	**16**	<2.0	**90**	**140**
MW-30	W-R2330021-042216-JPM-034	4/22/2016	<0.2	**16 J**	<5.0	<0.20	<2.0	**2.3 J**	**34 J**
MW-30[A]	DUP 2	4/22/2016	**0.11**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**360**
MW-30	DUP 2	4/22/2016	<0.2	**19 J**	<5.0	<2.0	<2.0	<4.0	**19 J**
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016	**0.43**	**40**	**2.6 J**	**0.18 J**	**0.37 J**	**30**	**140**
MW-30	W-R2330021-110416-AEM-032	11/4/2016	<0.2	**26 J**	<5.0	<2.0	<2.0	**1.7 J**	**62**
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017	<0.2	**31**	**0.98 J**	<0.2	<2.0	**0.86 J**	**2.8 J**
MW-30	W-R2330022-042517-DMS-007	4/25/2017	<0.2	**7.5 J**	**1.7 J**	<0.2	<2.0	**0.69 J**	**16 J**
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017	<0.2	**11 J**	<5.0	<0.2	<2.0	**1.4 J**	**2.9 J**
MW-30	W-R2330022-102617-AFB-025	10/26/2017	<0.2	**18 J**	**0.84 J**	<0.20	<2.0	**0.46 J**	**2.5 J**
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	<0.2	**2.6 J**	**0.73 J**	<0.20	<2.0	**1.3 J**	**340**
MW-31	W-R2330017-060515-ACN-001	6/5/2015	<0.2	**10 J**	<5.0	<0.20	<2.0	**2.2 J**	**21 J**
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015	<0.2	**9.7 J**	<5.0	<0.20	<2.0	**3.3 J**	**6.9 J**
MW-31	W-R2330017-111615-AEP-001	11/16/2015	<0.2	**9.6 J**	<5.0	<0.20	<2.0	**3.3 J**	**7.8 J**
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	<0.2	**31 J**	<5.0	<0.20	<2.0	**1.1 J**	**9.0 J**
MW-31	W-R2330021-041816-JPM-003	4/18/2016	<0.2	**15 J**	<5.0	<0.20	<2.0	<4.0	**21J**
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	<0.2	**11 J**	**1.1 J**	<0.20	**1.5 J**	**1.1 J**	**1.3 J**
MW-31	W-R2330021-103116-AEM-003	10/31/2016	<0.2	**9.6 J**	<5.0	<0.20	<2.0	<4.0	**8.0 J**
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	<0.2	**17 J**	**7.2**	<0.2	<2.0	**0.59 J**	**1.9 J**
MW-31	W-R2330022-042417-DMS-002	4/24/2017	<0.2	**20 J**	**5.4 J**	<0.20	<2.0	**2.4 J**	**38 J**
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	**10 J**
MW-31	W-R2330022-102617-DMS-003	10/23/2017	<0.2	**4.3 J**	<5.0	<0.20	<2.0	<4.0	**80 J**
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	<0.2	**6.4 J**	<5.0	<0.20	<2.0	<4.0	**51**
MW-32	W-R2330017-060515-ACN-002	6/5/2015	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.2 J**	**8.8 J**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																			
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																			
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																			
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																			
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017																			
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																			
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																			
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																			
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019																			
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																			
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																			
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																			
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																			
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																			
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																		
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																				
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																				
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																				
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																				
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																				
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017																				
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																				
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																				
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																				
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019																				
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																				
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																				
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																				
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																				
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																				
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																				
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																				
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																				
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																				
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019																				
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																				
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																				
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																				
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																				
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																				
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																				

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015	
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016	
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016	
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017	
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017	
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018	
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019	
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015	
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019	
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<1.0
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015	
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016	
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017	
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015						**920**	NS	NS	NS	NS	NS	NS	NS	NS		**6,300**	NS	**66,000**	NS
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	**66,000**	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016						**160**	NS	NS	NS	NS	NS	NS	NS	NS		**670**	NS	NS	**81**
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**410**	NS	NS	**87**
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016						**780**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**100**
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**82**
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017						**1,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**46 J**
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,200**	NS	**NS**	**90**
MW-32	W-R2330022-102317-DMS-004	10/23/2017						<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	**NS**	**80**
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**810**	NS	NS	**29 J**
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018						**2,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,800**	NS	NS	**42**
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**33**
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**81**
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	**4.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**85**
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019						**4,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**1,600**
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**780**	NS	NS	**60**
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,400**	NS	NS	**88**
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS	**91**
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015						**1,000**	NS	NS	NS	NS	NS	NS	NS	NS		**4,500**	NS	<50	**120**
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	<50	**80**
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015						**860**	NS	NS	NS	NS	NS	NS	NS	NS		**3,400**	NS	**84,000**	NS
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**85,000**	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016						**67**	NS	NS	NS	NS	NS	NS	NS	NS		**2,700**	NS	NS	**81**
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	**3.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS	**84**
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**78**
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**64**
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017						**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**89**
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017						**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**72**
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**68**
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018						**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**84**
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018						**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**84**
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	**3.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**75**
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	**6.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019						**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**69**
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**70**
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015						**1,700**	**0.24 J**	**4.2 J**	**120**	<1.0	<1.0	**2.6 J**	**2.2 J**	**5.0**		**2,800**	**2.4 J**	<50	**320**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<5.0	<5.0	<2.0	<5.0	<5.0	**20 J**	**0.23 J**	**3.0 J**	**110**	<1.0	<1.0	**1.3 J**	**1.0 J**	**0.75 J**	<0.005	**120 J**	<3.0	<50	**270**
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015						**28 J**	NS	NS	NS	NS	NS	NS	NS	NS		**1,000**	NS	**20,000**	NS
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	**19,000**	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016						**120**	NS	NS	NS	NS	NS	NS	NS	NS		**1,200**	NS	NS	**300**
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**850**	NS	NS	**290**
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016						**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**520**
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS	**490**
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017						**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS	**240**
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017						**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**290**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015	<0.2	**4.8 J**	<5.0	<0.20	<2.0	**0.28 J**	**15 J**
MW-32	W-R2330017-111615-AEP-002	11/16/2015	<0.2	**5.2 J**	<5.0	<0.20	<2.0	<4.0	**1.8 J**
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016	<0.2	**13 J**	<50	<0.20	**0.093 J**	**1.1 J**	**4.1 J**
MW-32	W-R2330021-041816-AEP-004	4/18/2016	<0.2	**4.2 J**	<5.0	<0.20	<2.0	<4.0	**3.1 J**
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016	<0.2	**0.42 J**	**0.48 J**	<0.025	<2.0	<0.30	**2.2 J**
MW-32	W-R2330021-103116-JPM-004	10/31/2016	<0.2	**0.6 J**	<5.0	<0.20	<2.0	<4.0	**1.7 J**
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**5.3 J**
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	<0.2	**0.46 J**	<5.0	<0.20	<2.0	<4.0	**2.1 J**
MW-32	W-R2330022-102317-DMS-004	10/23/2017	<0.2	<20	<5.0	<0.20	<2.0	**0.3 J**	**0.57 J**
MW-32	W-R2330022-042417-AFB-001	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**0.87 J**
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	<0.2	**1.3 J**	<5.0	<0.20	<2.0	<4.0	**3.7 J**
MW-33	W-R2330017-060515-ACN-003	6/5/2015	<0.2	**0.57 J**	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-33	W-R2330017-111615-AEP-003	11/16/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	<0.2	0.63 J	<5.0	<0.20	<2.0	<4.0	<50
MW-33	W-R2330021-041816-JPM-005	4/18/2016	<0.2	**0.67 J**	<5.0	<0.20	<2.0	<4.0	**3.5 J**
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**14 J**
MW-33	W-R2330021-103116-JPM-005	10/31/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**14 J**
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-33	W-R2330022-042417-DMS-003	4/24/2017	<0.2	**0.68 J**	<5.0	**0.026 J**	<2.0	<4.0	<50
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	<0.2	**1.1 J**	<5.0	**0.043 J**	<2.0	<4.0	**8.6 J**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<0.2	**1.0 J**	<5.0	**0.022 J**	<2.0	**0.54 J**	<50
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330017-111815-JPM-017	11/18/2015	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**4.1 J**
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330021-041916-JPM-013	4/19/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330021-110416-AEM-030	11/4/2016	<0.2	**0.47 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330022-042417-DMS-004	4/24/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018																			
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018																			
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																			
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																			
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																			
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019																			
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																			
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																			
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																			
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																			
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018																			
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																			
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																			
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019																			
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																			
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																			
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																			
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																			
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018																			
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																			
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																			
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																			
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																			
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																			
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																			
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																			
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018	
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019	
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016	
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018	
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019	
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018	
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019	
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	**0.13 J**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015	
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																					
																			Metals		
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**290**
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018						**42**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**280**
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	< 50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**280**
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018						**21**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**420**
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	**5.2**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**460**
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019						**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**190**
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**190**
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019						**450**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**270**
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**240**
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016						**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**320**	NS	NS	**16 J**
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**6.3 J**
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016						50 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190 J**	NS	NS	**19 J**
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	8 J	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**1.7 J**
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017						**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	NS	**29 J**
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS	**1.8 J**
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017						**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**12**
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.6	NS	NS	**7.6**
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018						**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**210**	NS	NS	**18**
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	**4.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**3.4 J**
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018						**73**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**270**	NS	NS	**27**
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29**	NS	NS	**8.6**
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019						**460**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**81**
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**3.4 J**
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019						**8.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**4.1 J**
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	**2.6 J**
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016						**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**160**
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	**4.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**930**	NS	NS	**150**
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016						**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**150**
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**130**
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017						**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**250**
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	NS	**140**
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017						**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**450**	NS	NS	**190**
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**200**
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018						**220.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**580**	NS	NS	**190**
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	**6.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**130**
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018						**940**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**270**
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	**13.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**37**	NS	NS	**49**
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019						**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**900**	NS	NS	**350**
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	**8.10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**200**
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019						**9.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**130**
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**120**
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015						**150**	**0.15 J**	**9.1**	**24 J**	<1.0	**0.18 J**	**0.41 J**	**0.86 J**	**1.6 J**		**750**	**1.3 J**	<50	**210**
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<5.0	<5.0	<2.0	<5.0	<5.0	<50	**0.15 J**	**2.8 J**	**21 J**	<1.0	**0.23 J**	**0.16 J**	**0.60 J**	**1.1 J**	<5.0	**43 J**	<3.0	<50	**72**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015						**8.6 J**	**NS**	NS	NS	NS	NS	NS	NS	NS		**480**	NS	**12,000**	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	**12,000**	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016						**22 J**	NS	NS	NS	NS	NS	NS	NS	NS		**440**	NS	NS	**110**
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	**33 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**100**
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016						**4.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140 J**	NS	NS	**72**
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130 J**	NS	NS	**68**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
MW-34	W-R2330022-102617-DMS-006	10/23/2017	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Residential Drinking Water Criteria (II)			13,000	600 (A)	75 (A)	1,800	730	5.0 (A)	80 (A,W)	800	100 (A)	430	260	80 (A,W)	NA	80 (A,W)	1,700	74 (E)	800	NA	790 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200	ID	ID	25	1,100	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+5 (S)	16,000	2.0E+07 (S)	1.0E+09 (D,S)	5,600	4,800	2.5E+05	2.1E+05	5.7E+06 (S)	8.6E+03	28,000	NA	14,000	2.2E+05	1.1E+05	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10	NA	36,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.00E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.37 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.31 J**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	<25	<1.0	<1.0	<50	<50	**6.7**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	**1.4**	**2.5 J**	<1.0	**0.44 J**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**0.72 J**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<25	<1.0	<1.0	<50	<50	**2.4**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Residential Drinking Water Criteria (II)			280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880
Residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480	10,000	1.08E+06	1.08E+06	1.12E+04
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																			
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																			
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																			
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																			
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																			
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.28 J**	<10	<10	<4.0	<5.0	<5.0	**0.21 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.77 J**	<5.0	<5.0	<10	**0.34 J**	<10	<10	<4.0	<5.0	<5.0	**0.25 J**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.56 J**	<10	<10	<4.0	<5.0	<5.0	**0.23 J**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	**4.2**	<10	<10	**0.19 J**	<10	**0.41 J**	<5.0	<10	**1.6 J**	**0.54 J**	**0.22 J**	**0.79 J**	<5.0	<10	<10	**0.41 J**	**0.35 J**	<5.0	<5.0
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	**0.12 J**	<5.0	**0.51 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.14 J**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Fluoranthene
Residential Drinking Water Criteria (II)			210 (S)
Residential Health-Based Drinking Water Value (E)			NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6
GSI Final Acute Value (FAV)			220
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-RES}) (a)			NA
Water Solubility (VII)			206
Flammability & Explosivity Screening Level (VIII)			ID
ID	SAMPLE ID	SAMPLE DATE	
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019	
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<1.0
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<1.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013	
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<1.0
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013	
SB-21	W-R2330009-120513-RD-001	12/5/2013	<1.0
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013	
SB-22	W-R2330009-120513-RD-002	12/5/2013	<1.0
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013	
SB-23	W-R2330009-120513-RD-003	12/5/2013	<1.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																										
																							Metals			
			Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)
Residential Drinking Water Criteria (II)			880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA	NA	1,400	NA	2,000	NA	NA	860
Ground Water Surface Water Interface Criteria (GSI) (III)			12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)
GSI Final Acute Value (FAV)			220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017						**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	NS	**610**
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS	**130**
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018						<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**96**
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**380**	NS	NS	**98**
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018						**6.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS	**34**
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	U	NS	NS	NS	NS	NS	NS	NS	NS	NS	**80**	NS	NS	**21**
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019						16	NS	NS	NS	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**84**
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**69**
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019						<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**280**	NS	NS	**65**
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**56**
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013						**120,000**	**2.8 J**	**300**	**730 J**	**5.9 J**	**4.0 J**	**240**	**140 J**	**510**		**310,000**	**250**	<50	**5,300**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.37 J**	<2.0	**59 J**	<1.0	**0.071 J**	<10	**8.0 J**	**2.3 J**	<0.005	**71 J**	**0.072 J**	<50	**610**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013						**2,100**	**0.54 J**	**2.1 J**	**65 J**	**0.12 J**	**0.20 J**	**4.6 J**	**9.6 J**	**7.4**		**3,500**	**4.0**	<50	**800**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.37 J**	<2.0	**49 J**	<1.0	**0.064 J**	<10	**5.4 J**	**1.9 J**	<0.005	**150 J**	**0.11 J**	<50	**470**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013						**790**	**0.32 J**	**2.0 J**	**33 J**	<1.0	**0.052 J**	**5.2 J**	**1.5 J**	**2.9 J**		**1,600**	**0.79 J**	<50	**53**
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.43 J**	**0.77 J**	**34 J**	<1.0	<1.0	<10	**2.2 J**	**2.0 J**	**2.3 J**	**770**	<3.0	<50	**53**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013						**38,000 J**	**13 J**	**37 J**	**2,900**	**1.7 J**	**11**	**75 J**	**38 J**	**320**		**73,000**	**1,700**	<50	**1,800**
SB-21	W-R2330009-120513-RD-001	12/5/2013	**0.94 J**	<5.0	<2.0	<5.0	**0.44 J**	**24 J**	**0.97 J**	**2.3 J**	**2,000**	<1.0	<1.0	**1.7 J**	**5.5 J**	**2.3 J**	**6.9**	**13,000**	**0.49 J**	<50	**530**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013						**1,900**	**2.2 J**	<5.0	**1000**	<1.0	<1.0	**8.1 J**	**4.3 J**	**40 J**		**16,000**	**59**	<50	**550**
SB-22	W-R2330009-120513-RD-002	12/5/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.99 J**	**2.0 J**	**960**	<1.0	<1.0	**1.1 J**	**3.9 J**	**2.8 J**	**3.6 J**	**12,000**	**0.21 J**	<50	**560**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013						**3,200**	**2.8 J**	**72**	**880 J**	**1.8 J**	<1.0	**130**	**40 J**	**150**		**8,600**	**86**	<50	**1,600**
SB-23	W-R2330009-120513-RD-003	12/5/2013	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.39 J**	**23**	**690**	<1.0	<1.0	**2.3 J**	**3.0 J**	**1.5 J**	**31**	**12,000**	**0.084 J**	<50	**70**
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013						**6,700**	**2.6 J**	**130**	**860 J**	**3.5 J**	**2.9 J**	**130**	**77 J**	**220**		**190,000**	**150**	<50	**4,100**

Table 3
Summary Of Ground Water Sample Results

Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			2.0 (A)	100 (A)	50 (A)	34	2.0 (A)	4.5	2,400
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE							
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-13	W-R2330009-121013-AJL-008	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-14	W-R2330009-121013-AJL-007	12/10/2013	NS	NS	NS	NS	NS	NS	NS
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013	NS	NS	NS	NS	NS	NS	NS
SB-15	W-R2330009-120913-AJL-006	12/9/2013	NS	NS	NS	NS	NS	NS	NS
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-21	W-R2330009-120513-RD-001	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-22	W-R2330009-120513-RD-002	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-23	W-R2330009-120513-RD-003	12/5/2013	NS	NS	NS	NS	NS	NS	NS
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	NS	NS	NS	NS	NS	NS	NS

Table 4

Total Depth to Bottom of Wells
and Estimated Sediment Accumulation

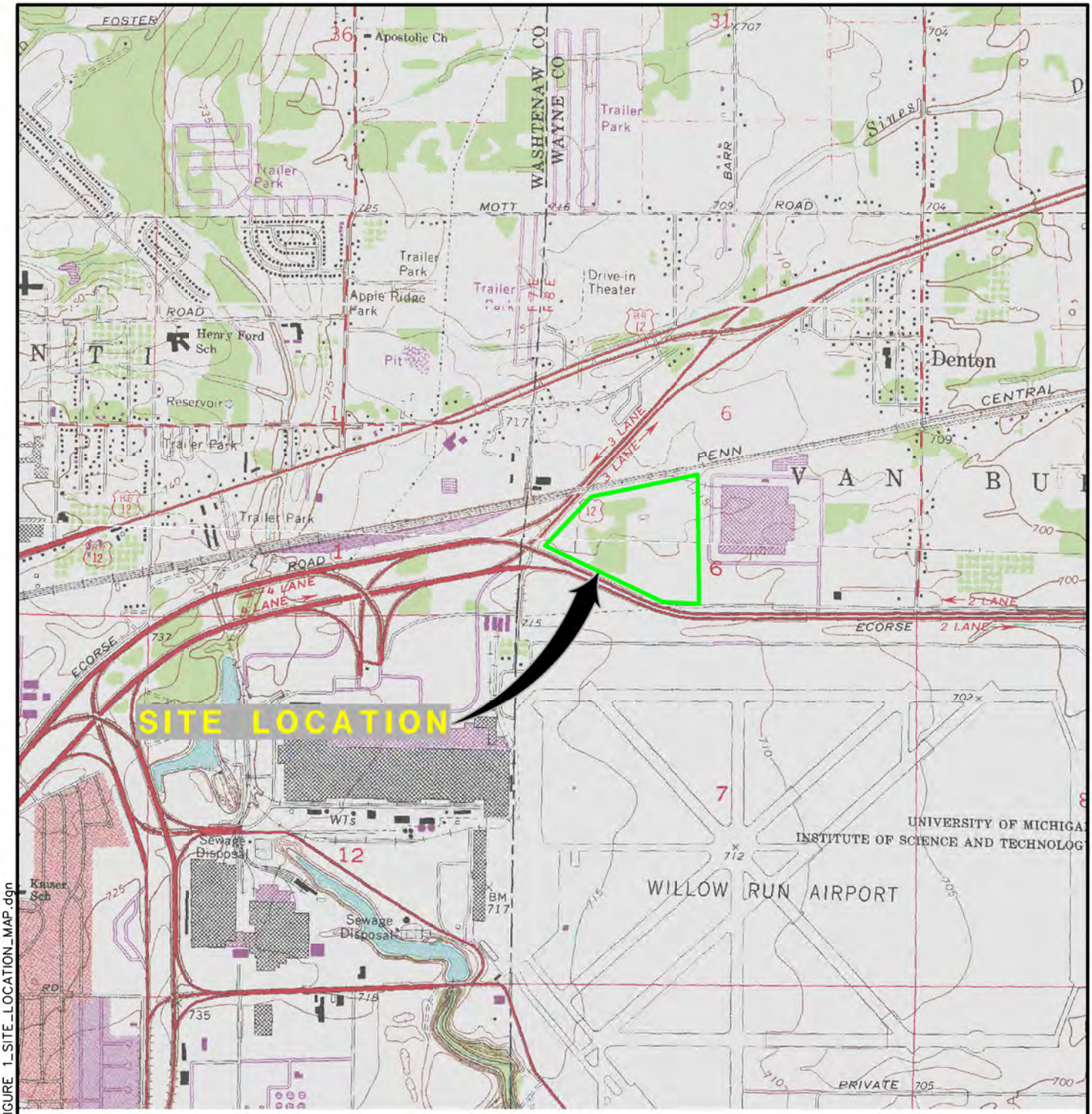
Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

Well ID	Total Depth of Well from TOC[3] (feet)	Total Depth of Well from TOC[3] (feet) 4/29/2019	Estimated Sediment Accumulation
MW-1	21.67	21.25	0.42
MW-3	14.80	13.15	1.65
MW-4	21.60	21.54	0.06
MW-5	30.02	29.62	0.40
MW-6	16.38	16.19	0.19
MW-7	8.81	8.85	-0.04
MW-8	7.78	7.63	0.15
MW-9	14.81	14.7	0.11
MW-10	23.45	23.39	0.06
MW-11	18.12	18.15	-0.03
MW-12	18.66	17.5	1.16
MW-13	25.94	24.51	1.43
MW-14	17.70	17.59	0.11
MW-15	15.72	16.34	-0.62
MW-16	16.28	16.61	-0.33
MW-17	17.84	17.75	0.09
MW-18	16.66	15.74	0.92
MW-19	14.63	14.42	0.21
MW-20	15.47	14.95	0.52
MW-21	15.36	14.2	1.16
MW-22	15.42	14.88	0.54
MW-23	15.74	15.02	0.72
MW-24	16.19	14.4	1.79
MW-25	16.52	16.15	0.37
MW-26	17.19	16.34	0.85
MW-27	13.97	13.8	0.17
MW-28	21.70	22.8	-1.10
MW-29	12.22	11.7	0.52
MW-30	12.36	12.5	-0.14
MW-31	8.99	9	-0.01
MW-32	9.5	8.1	1.4
MW-33	18.59	18.05	0.54
MW-34	18.89	13.3	5.59
MW-35	10.48	9.94	0.54
MW-36	10.29	10	0.29
CRA-265M	13.90		
CRA-266M	12.10		
CRA-833M	17.05		
CRA-834M	ND		

Notes:

MW-31, MW-32 and MW-33 were measured and redeveloped on Arpil 7, 2016
MW-3, MW-12, MW-18, MW-32, MW-21, MW-23, MW-22, MW-26, MW-34 were measured and redeveloped in July of 2017

FIGURES



SCALE 1:24000

1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



NOTE: MAP ADAPTED FROM USGS TOPOGRAPHIC QUADRANGLES, (MICHIGAN 7.5 MINUTE SERIES) DENTON, MICHIGAN (PHOTOGRAPHS TAKEN 1952 AND REVISE FROM PHOTOGRAPHS TAKEN 1966 AND FIELD CHECKED 1969, REVISED AGAIN IN 1982) AND YPSILANTI EAST, MICHIGAN,(PHOTOGRAPHS TAKEN 1952, AND REVISIONS TAKEN FROM PHOTOGRAPHS TAKEN 1966, AND FIELD CHECKED 1967, REVISED AGAIN IN 1982)

Mannik Smith GROUP
TECHNICAL SKILL. CREATIVE SPIRIT.
www.MannikSmithGroup.com

FIGURE 1
SITE LOCATION MAP

VAN BUREN LANDFILL SITE
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TOWNSHIP, WAYNE COUNTY, MICHIGAN

DATE	DRAWN BY	DESIGNED BY	PROJECT NO.
3/12/14	CJB	MJF	R2330012

W:\Projects\Projects P-T\R2330012\CAD\R2330012_FIGURE 1_SITE_LOCATION_MAP.dgn



GENERAL NOTES:

1. AERIAL PHOTO FROM SEMCOG DATED 2010.
2. UTILITY LOCATIONS BASED ON INFORMATION FROM SAP/QAPP AND MISS DIG UTILITY MARKINGS.
3. MW-29, MW-30 & MW-34 WAS NOT USED IN CONTOURING.

NO.	DATE	BY	DESCRIPTION
1	7/14/14	CJB	PHASE III SITE INVESTIGATION SAMPLING LOCATIONS

Mannik Smith GROUP — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

Revitalizing Auto Communities Environmental Response Trust

VAN BUREN LANDFILL SITE (11070)
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TWP., WAYNE CO. MICHIGAN

FIGURE 2
GROUNDWATER ELEVATION
CONTOUR MAP (NOVEMBER 2019)

3/9/2020

W:\Projects\Projects P-T\R2330025\CAD\SURVEY\R2330025 Fall 2019 GW Montoring.dgn



MDEQ Part 201 Non-Residential Health Based Clean Up Criteria

Al = 4,100 ug/l
Fe = 5,600 ug/l
Mn = 2,500 ug/l

MDEQ Part 201 Residential Health Based Clean Up Criteria

Al = 300 ug/l
Fe = 2,000 ug/l
Mn = 860 ug/l

CHEMICAL ABBREVIATIONS

B = Benzene
Ba = Barium
As = Dissolved Arsenic
Fe = Dissolved Iron
Mn = Manganese
BC = Below Applicable Criteria

GRAPHIC SCALE

0' 200' 400'

LEGEND

- PROPERTY LINE
- R/W LINE
- FENCE
- EXTENT OF EARTH DISTRUBANCE BASED ON APRIL 26, 1970 AERIAL PHOTO
- GAS — EXISTING GAS MAIN
- FO — EXISTING FIBER OPTIC CABLE
- W — EXISTING FIRE WATER
- W — EXISTING WATER MAIN
- EXISTING STORM
- ST (3) THREE EX. PARALLEL STORM SEWERS
- SURFACE WATER SAMPLE LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- TP-32 TEST PIT LOCATION

GENERAL NOTES:

1. AERIAL PHOTO FROM SEMCOG DATED 2010.
2. UTILITY LOCATIONS BASED ON INFORMATION FROM SAP/QAPP AND MISS DIG UTILITY MARKINGS.
3. OFF-SITE LOCATIONS COMPARED TO RESIDENTIAL CRITERIA. ON-SITE LOCATIONS COMPARED TO NON-RESIDENTIAL CRITERIA.
4. ALL RESULTS EXPRESSED IN MICROGRAMS PER LITER.
5. ONLY EXCEEDENCES OF NON-RESIDENTIAL HEALTH-BASED DRINKING WATER CRITERIA AND RESIDENTIAL HEALTH-BASED DRINKING WATER CRITERIA ARE SHOWN.
6. ONLY EXCEEDENCES OF DISSOLVED METALS ARE SHOWN. THERE ARE EXCEEDENCES OF TOTAL METALS NOT DISPLAYED IN THE FIGURE (REFER TO TABLE).

NO.	DATE	BY	DESCRIPTION
1	7/14/14	CJB	PHASE III SITE INVESTIGATION SAMPLING LOCATIONS

Mannik Smith Group
TECHNICAL SKILL+ CREATIVE SPIRIT.
www.MannikSmithGroup.com

Revitalizing Auto Communities Environmental Response Trust

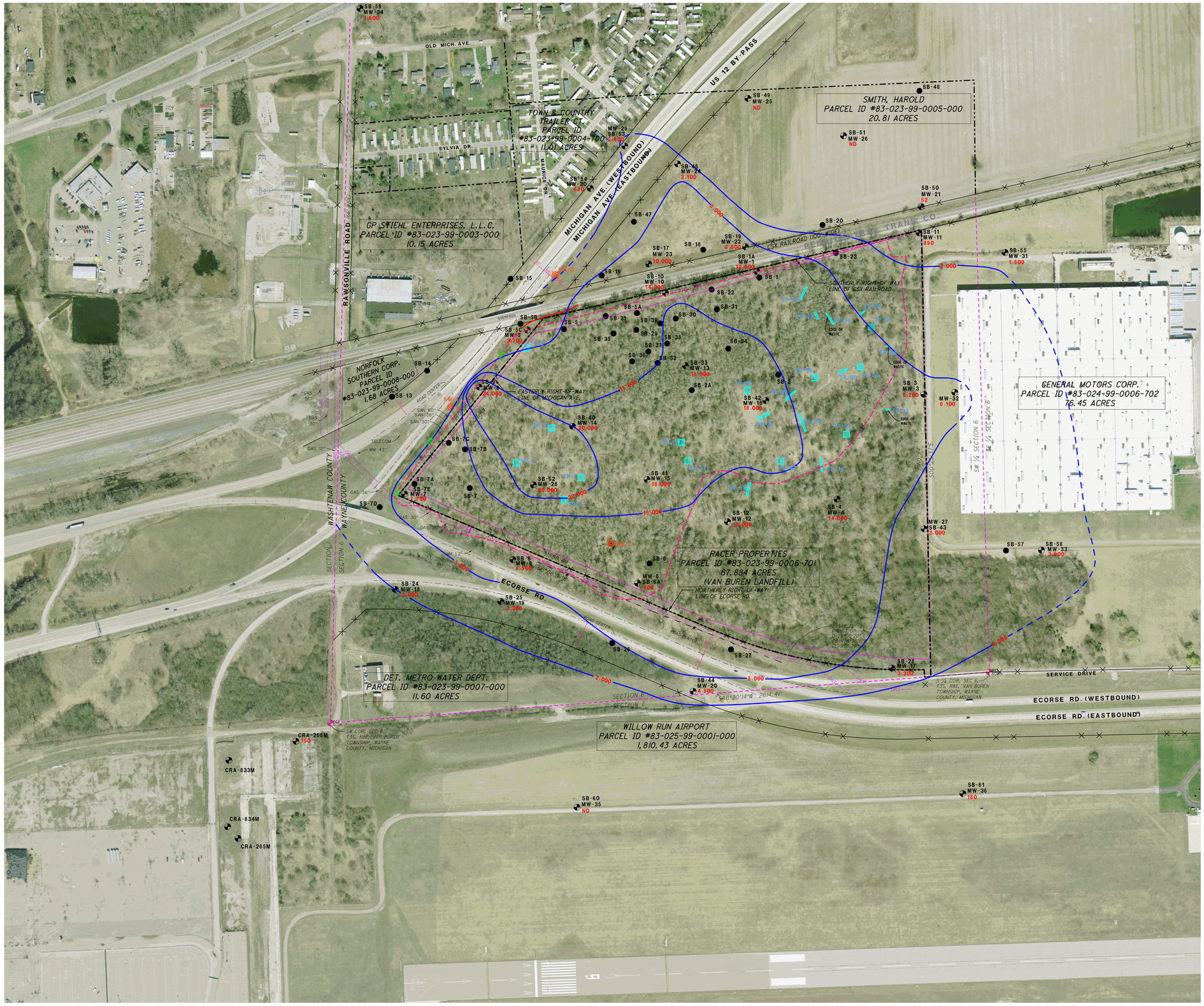
RACER

VAN BUREN LANDFILL SITE (11070)
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TWP., WAYNE CO. MICHIGAN

FIGURE 3
MONITORING WELL ANALYTICAL SUMMARY THROUGH NOVEMBER 2019
SEMI-ANNUAL GROUNDWATER MONITORING (EXCEEEDENCES ONLY)

12/3/2019

W:\Projects\Projects P-T\R2330025\CAD\BASE\R2330025_MW_Analytical_Summary FIG_3-Nov_2019.dgn



GENERAL NOTES:

1. WELLS WERE ANALYZED FOR Fe, Al AND Mn (TOTALS AND DISSOLVED).
2. AERIAL PHOTO FROM SEMCOG DATED 2010.
3. UTILITY LOCATIONS BASED ON INFORMATION FROM SAP/QAPP AND MISS DIG UTILITY MARKINGS.
4. ALL RESULTS EXPRESSED IN MICROGRAMS PER LITER.
5. ISOCONTOURS NOT GENERATED USING MW-34, MW-8, CRA-266, SW-1, SW-2 AND SW-3.
6. RESIDENTIAL HEALTH BASED DRINKING WATER CRITERIA FOR IRON IS 2,000 ug/L.
7. MW-21, MW-22, MW-23, MW-24, MW-25 AND MW-26 WERE NOT SAMPLED DUE TO NEW OWNERSHIP AND NO ACCESS.
8. ND = NOT DETECTED ABOVE LABORATORY DETECTION LIMIT

NO.	DATE	BY	DESCRIPTION
1	7/14/14	CJB	PHASE III SITE INVESTIGATION SAMPLING LOCATIONS

Mannik Smith Group
TECHNICAL SKILL. CREATIVE SPIRIT.
www.MannikSmithGroup.com

Revitalizing Auto Communities Environmental Response Trust

RACER TRUST

VAN BUREN LANDFILL SITE (11070)
MICHIGAN AVE. & ECORSE RD.
VAN BUREN TWP., WAYNE CO. MICHIGAN

FIGURE 4
DISSOLVED IRON
ISOCONCENTRATION MAP
(NOVEMBER 2019)

12/11/2019

W:\Projects\Projects P-T\R2330025\CAD\BASE\R2330025_Dissolved_Iron_Isoconcentration_Map FIG_4_Nov-2019.dgn

ATTACHMENT 1

LOW FLOW GROUND WATER FIELD SAMPLING FORMS

LOW FLOW GROUND WATER SAMPLING FORM

DATE: 10/16/19

SAMPLE LOCATION: MW-31

PERSONNEL: KLS

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: 54° Clear

DEPTH OF WELL: 9.0

DEPTH TO WATER LEVEL: 2.25

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
12:03	2.25	61.3	0.670	3.40	8.13	-53	898	0.00		
12:08	2.28	60.7	0.658	2.14	8.22	-41	314	0.09		
12:13	2.31	60.1	0.647	1.85	8.21	-37	157	0.15		
12:18	2.30	60.1	0.647	1.71	8.16	-67	114	0.23		
12:23	2.30	60.9	0.647	1.62	8.19	-71	64.7	0.32		
12:28	2.30	61.1	0.642	1.55	8.20	-75	44.6	0.42		
12:33	2.30	61.1	0.647	1.52	8.26	-82	36.8	0.50		
12:38	2.30	61.1	0.650	1.45	8.23	-92	38.5	0.60		
12:43	2.30	61.2	0.649	1.42	8.22	-95	29.3	0.70		
12:48	2.30	61.1	0.647	1.40	8.27	-82	20.0	0.80		
12:53	2.30	61.2	0.647	1.36	8.21	-84	19.6	0.90		
12:58	2.30	61.5	0.647	1.33	8.21	-97	19.5	1.00		

SAMPLE ID: W-R2330025-REP819-101M-003

SAMPLE DATE: 10/16/19

SAMPLE TIME: 13:00

Notes: started @ 12:00

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/28/19

PERSONNEL: KRM, SCD

OBSERVERS: _____

DEPTH OF WELL: 9.94

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: MW-35

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: clear

DEPTH TO WATER LEVEL: 3.77

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
0915	3.76	61.4	0.449	5.74	7.87	264	19.1	0	≈220	
0918	3.76	61.4	0.451	4.36	7.93	262	8.1	≈0.3		
0921	3.76	61.4	0.452	3.65	8.01	257	8.5	≈0.6		
0924	3.76	61.4	0.452	2.99	8.19	247	5.4	≈0.9		
0929	3.76	61.3	0.452	2.83	8.22	245	4.3	≈1.2		
0934	3.76	61.3	0.453	2.60	8.25	244	3.6	≈1.5		
0939	3.76	61.4	0.453	2.49	8.27	242	3.4	≈1.9		

SAMPLE ID: W-R2330025-102819-KRM-001

SAMPLE DATE: 10/28/19

SAMPLE TIME: 9:40

Notes: Began purging @ 0912

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/28/19

PERSONNEL: CAF

OBSERVERS: _____

SAMPLE LOCATION: MW-26

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: clear 46°F

DEPTH OF WELL: 10.00 ft

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 3.00

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1005	3.13	59.4	0.779	9.01	8.23	285	18.1	0.0	350	
1010	3.13	59.7	0.819	7.02	8.29	271	17.0	0.25		
1015	3.13	59.7	0.828	6.08	8.23	240	16.3	0.45		
1020	3.13	59.8	0.921	5.13	8.23	190	9.0	0.65		
1025	3.13	59.9	0.946	4.08	8.26	109	5.9	0.85		
1030	3.13	59.9	0.958	3.01	8.27	79	4.7	1.05		
1035	3.13	60.0	0.961	1.92	8.27	44	4.1	1.25		
1040	3.13	60.0	0.962	1.13	8.27	19	3.7	1.50		
1045	3.13	60.1	0.973	0.99	8.27	2	3.5	1.80		
1050	3.13	60.2	0.973	0.76	8.27	-7	3.3	2.04		

SAMPLE ID: W-R2330025-102819-MW-26-002

SAMPLE DATE: 10/28/19

SAMPLE TIME: 10:53

Notes: started @ 1005

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. DEDICATIVE SPIRIT. — www.MannikSmithGroup.com

SAMPLE LOCATION: MW-32

DATE: 10/28

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SCA

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: _____

DEPTH OF WELL: 8.10

DEPTH TO WATER LEVEL: 4.58

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1304	4.69	64.7	2.19	4.77	7.24	-136	>1000	~~0~~	~220	
1309	4.73	65.5	2.17	2.44	7.55	-160	225	~0.3		
1314	4.73	64.7	2.13	1.98	7.51	-164	119	~0.6		
1319	4.73	64.5	2.12	1.83	7.50	-165	88.1	~0.9		
1324	4.73	64.3	2.09	1.70	7.49	-166	64.0	~1.2		
1329	4.73	64.2	2.05	1.74	7.48	-168	51.5	~1.5		
1334	4.73	64.2	2.05	1.71	7.48	-168	52.3	~1.8		
1339	4.73	64.1	2.04	1.73	7.47	-168	50.9	~2.1		

SAMPLE ID: W-R2330025-102819-SCD-004

SAMPLE DATE: 10/28/19

SAMPLE TIME: 1340

Notes: Began purging @ 1259

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/28/19

SAMPLE LOCATION: MW-33

PERSONNEL: KRM

PROJECT #: R2330025

OBSERVERS: _____

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: 18.05

DEPTH TO WATER LEVEL: 3.86

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (mS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
13:38	3.86	64.8	1.73	3.38	8.13	209	452	0.05		
13:43	3.87	62.8	1.79	1.91	8.13	-79	137	0.08		
13:48	3.86	63.2	1.79	1.87	8.13	-81	118	0.09		
13:53	3.86	62.3	1.83	1.51	8.07	-96	0.0	0.11		
13:58	3.86	62.1	1.90	1.35	8.01	-100	196	0.15		
14:03	3.86	62.5	1.92	1.29	7.98	-102	55.1	0.20		
14:08	3.86	62.4	1.95	1.83	7.98	-103	18.2	0.30		
14:13	3.86	62.3	1.95	1.30	7.97	-104	11.9	0.40		
14:18	3.86	62.4	1.96	1.26	7.96	-106	10.0	0.50		
14:23	3.86	62.4	1.96	1.20	7.93	-107	8.8	0.60		

SAMPLE ID: W-R2330025-102819-KRM-005

SAMPLE DATE: 10/28/19

SAMPLE TIME: 14:30

Notes: stabil at 13:38 All equal exc turb

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

SAMPLE LOCATION: MW-7

PERSONNEL: KRM, LMD

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: Clear, 40's

DEPTH OF WELL: 8.85

DEPTH TO WATER LEVEL: 5.15

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
08:17	5.08	59.8	0.000	24.31	7.18	226	183	0		
:22	5.49	59.8	2.87	3.07	7.93	-201	204	.03		
:27	5.55	59.5	2.64	2.52	7.86	-202	54.6	.06		
:32	5.61	59.8	2.70	2.31	7.88	-194	144.1	.15		
:37	5.61	60.0	2.36	2.14	7.91	-195	241.1	.210		
:42	5.61	60.1	2.20	2.07	7.97	-198	12.3	.30		
:47	5.61	60.1	2.83	1.98	7.99	-173	8.5	.60		
:52	5.61	60.2	2.82	1.91	7.99	-171	7.8	.75		
:57	5.61	60.3	2.83	1.94	7.98	-166	7.2	.85		

SAMPLE ID: W-R2330025-102919-KRM-007

SAMPLE DATE: 10/29/19

SAMPLE TIME: 9:00

Notes: Started @ 8:14

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

PERSONNEL: KP M, JHD

OBSERVERS: _____

SAMPLE LOCATION: MW-9

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: 14.3

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 9.2

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
09:50	9.4	56.3	.001	13.96	7.97	69	165	~0		
09:55	9.37	58.1	2.106	2.78	7.96	-121	26.0	~0.2		
10:00	9.37	58.8	2.96	2.03	8.00	-132	14.9	~0.3		
10:05	9.37	59.3	2.77	1.78	8.00	-135	10.5	~0.6		
10:10	9.37	59.7	2.76	1.62	8.01	-132	8.9	~0.7		
10:15	9.37	57.8	2.85	1.56	8.05	-133	8.1	~0.8		
10:20	9.37	58.9	2.75	1.55	8.05	-133	7.9	~0.9		
10:25	9.37	58.9	2.75	1.46	8.03	-131	7.41	~1.0		

SAMPLE ID: W-R2330025-102919-KP-1

SAMPLE DATE: 10/29/19

SAMPLE TIME: 10:25

Notes: stabilized @ 9:15

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

SAMPLE LOCATION: MW-5

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

PERSONNEL: KRM, LMD

OBSERVERS: _____

SITE CONDITIONS: _____

DEPTH OF WELL: 29.62

DEPTH TO WATER LEVEL: 10.55

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
11:15	10.6	62.0	2.17	11.86	7.73	-46	154	0		
11:20	10.6	63.2	2.67	2.00	7.86	-100	150	≈ 0.1		
11:25	10.6	63.5	2.68	1.68	7.95	-114	118	≈ 0.2		
11:30	10.6	63.5	2.68	1.50	7.98	-118	74.1	≈ 0.4		
11:35	10.6	63.6	2.68	1.39	7.96	-124	50.0	≈ 0.6		
11:40	10.6	63.7	2.67	1.32	7.97	-128	37.9	≈ 0.8		
11:45	10.6	63.7	2.67	1.32	7.95	-131	28.9	≈ 1.0		
11:50	10.6	63.7	2.67	1.25	7.95	-133	23.0	≈ 1.3		
11:55	10.6	63.7	2.67	1.23	7.98	-136	19.3	≈ 1.5		
12:00	10.6	63.8	2.66	1.19	7.95	-137	16.2	≈ 2.0		
12:05	10.6	63.9	2.66	1.20	7.97	-142	14.3	≈ 2.5		

SAMPLE ID: W-R2330025-102919-KRM-DUP

SAMPLE DATE: 10/29/19

SAMPLE TIME: 12:08

Notes: Sheen @ 11:15

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

SAMPLE LOCATION: MW-1

PERSONNEL: KRM, LMD

OBSERVERS: _____

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: 21.25

DEPTH TO WATER LEVEL: 11.60

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
13:10	11.7	62.5	.001	14.16	8.11	97	147	0		
13:15	11.68	59.1	2.60	3.13	7.86	-102	9.0	~0.2		
13:20	11.68	58.3	2.65	2.51	7.96	-112	5.3	~0.4		
13:25	11.68	58.2	2.66	2.01	7.97	-117	4.6	~0.6		
13:30	11.68	57.9	2.67	1.75	7.96	-122	4.8	~0.8		
13:35	11.68	57.0	2.66	1.63	7.94	-123	5.4	~1.0		
13:40	11.68	58.0	2.67	1.82	7.92	-125	5.3	~1.2		
13:45	11.68	57.9	2.67	1.57	7.91	-126	7.9	~1.5		
13:50	11.68	57.9	2.67	1.53	7.91	-128	5.6	~1.8		
13:55	11.68	58.0	2.67	1.52	7.90	-129	5.2	~2.0		
14:00	11.68	58.0	2.66	1.49	7.89	-130	6.0	~2.2		

SAMPLE ID: W-R2330025 102919 MSMS 014

SAMPLE DATE: 10/29/19

SAMPLE TIME: 14:06

Notes: Sterile @ 13:05

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

PERSONNEL: KRM, LMD

OBSERVERS: _____

SAMPLE LOCATION: MW-10

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: 23.39

DEPTH TO WATER LEVEL: 15.50

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
15:25	15.52	57.0	2.97	5.93	7.82	-93	35.6	0		
15:30	15.51	56.8	3.00	2.87	7.82	-95	24.9	~0.2		
15:35	15.53	56.5	3.02	2.59	7.83	-96	19.6	~0.5		
15:40	15.53	56.4	3.03	2.38	7.83	-96	15.3	~0.7		
15:45	15.53	56.2	3.05	2.32	7.82	-96	12.9	~0.9		
15:50	15.53	56.1	3.06	2.07	7.82	-97	13.8	~1.2		
15:55	15.53	56.1	3.07	1.93	7.81	-98	12.5	~1.5		
16:00	15.53	56.0	3.07	1.82	7.79	-100	11.2	~1.7		
16:05	15.53	55.9	3.07	1.78	7.79	-100	10.1	~1.8		
16:10	15.53	55.9	3.08	1.69	7.80	-101	8.8	~2.0		
16:15	15.53	55.8	3.08	1.66	7.80	-102	8.5	~2.2		
16:20	15.53	55.8	3.08	1.62	7.80	-103	8.2	~2.5		

SAMPLE ID: W-R2330025-102919-KRM-018

SAMPLE DATE: 10/29/19

SAMPLE TIME: 16:25

Notes: Started @ 15:24

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

PERSONNEL: KRM, LMD

OBSERVERS: _____

SAMPLE LOCATION: Equipment Blank 2

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: _____

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: _____

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			

SAMPLE ID: W-R2330025-102919-KRM-002

SAMPLE DATE: 10/29/19

SAMPLE TIME: 13:08

Notes: _____

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29

PERSONNEL: SCD

OBSERVERS: _____

SAMPLE LOCATION: MW-28

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: 52°F; cloudy

DEPTH OF WELL: _____

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 12.46

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
0831	12.50	56.1	2.52	6.81	7.61	-110	76.1	~0	~720	
0836	12.49	56.9	2.53	2.83	7.34	-160	31.1	~0.5		
0841	12.50	57.0	2.54	2.16	7.33	-171	55.9	~1.0	↑	
0846	12.51	57.2	2.55	2.12	7.32	-176	55.5	~1.5		
0851	12.50	57.3	2.55	2.25	7.32	-180	55.3	~2.0		
0856	12.50	57.4	2.55	2.11	7.32	-180	55.6	~2.5		
0901	12.49	57.4	2.56	2.09	7.31	-182	55.2	~3.0		
0906	12.51	57.5	2.55	2.04	7.31	-183	55.0	~3.5	↓	

SAMPLE ID: W-R2330025-102919-SCD-003

SAMPLE DATE: 10/29/19

SAMPLE TIME: 0902

Notes: Began purging @ 0826

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. EXPENSIVE SPIRIT. — www.MannikSmithGroup.com

SAMPLE LOCATION: MW-14

DATE: 10/29/19

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SCD

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: ~55°F ; cloudy

DEPTH OF WELL: 17.59

DEPTH TO WATER LEVEL: 14.84'

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
0959	15.03	55.6	1.99	2.76	7.27	-56	155	0	~220	
1004	15.05	55.9	2.10	1.85	7.20	-105	126	~0.5	↑	
1009	15.04	56.1	2.11	1.68	7.21	-119	131	~1.0		
1014	15.01	56.4	2.16	1.57	7.21	-126	89.6	~1.5		
1019	15.03	56.5	2.18	1.69	7.22	-130	87.0	~2.0		
1024	15.04	56.6	2.20	1.44	7.23	-133	85.1	~2.5		
1029	15.05	56.7	2.21	1.38	7.23	-139	82.3	~3.0		
1033	15.01	56.8	2.22	1.38	7.23	-139	87.9	~3.5		
1037	15.04	56.9	2.22	1.36	7.23	-140	83.1	~4.0		
1041	15.04	57.0	2.22	1.32	7.23	-141	80.9	~4.5		

SAMPLE ID: MW-2330025-102919-SCD-010

SAMPLE DATE: 10/29/19

SAMPLE TIME: 1042

Notes: Began purging @ 0954

[1] - 10% for values greater than 0.5 mg/L, If three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; If three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

SAMPLE LOCATION: MW-15

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

PERSONNEL: SCD

OBSERVERS: _____

SITE CONDITIONS: ~56° F; cloudy

DEPTH OF WELL: 16.34'

DEPTH TO WATER LEVEL: 14.34'

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1115	14.39	58.9	2.24	5.40	7.37	-109	128	0	~220	
1120	14.39	59.2	2.27	3.93	7.36	-122	99.6	~0.5		
1125	14.40	59.2	2.30	1.46	7.35	-138	66.2	~1.0		
1130	14.40	59.3	2.31	1.32	7.32	-154	57.9	~1.5		
1135	14.40	59.3	2.32	1.32	7.38	-152	56.5	~2.0		
1140	14.40	59.3	2.32	1.32	7.38	-159	55.8	~2.5		
1145	14.39	59.3	2.33	1.32	7.39	-162	54.5	~3.0		
1150	14.39	59.3	2.33	1.32	7.40	-162	54.4	~3.5		

SAMPLE ID: W-2330025-102919-SCD-01

SAMPLE DATE: 10/29/19

SAMPLE TIME: 1151

Notes: Began purging @ 1110

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

DATE: 10/29/19

SAMPLE LOCATION: MW-6

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

PERSONNEL: SCD

OBSERVERS: _____

SITE CONDITIONS: ~56°F; cloudy

DEPTH OF WELL: 16.19

DEPTH TO WATER LEVEL: 6.74

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1222	6.79	58.2	2.74	2.04	7.45	-123	51.1	0	~220	
1227	6.80	58.2	2.78	1.50	7.45	-138	49.8	+0.5		
1232	6.80	58.2	2.71	1.23	7.47	-145	50.0	+1.0		
1237	6.80	58.2	2.68	1.26	7.48	-149	50.3	+1.5		
1242	6.80	58.2	2.66	1.22	7.49	-156	50.7	+2.0		
1247	6.79	58.2	2.65	1.19	7.50	-155	50.5	+2.5		
1252	6.80	58.3	2.660	1.10	7.52	-158	50.5	+3.0		
1257	6.79	58.3	2.65	1.14	7.53	-160	50.7	+3.5		
1302	6.80	58.3	2.65	1.13	7.54	-161	50.7	+4.0		

SAMPLE ID: W2330025 10129-MW-6-013

SAMPLE DATE: 10/29/19

SAMPLE TIME: 13:03

Notes: Began purging @ 12:17

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/29/19

SAMPLE LOCATION: MW-12

PERSONNEL: SCD

OBSERVERS: _____

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: 17.50'

DEPTH TO WATER LEVEL: 10.89

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1333	10.90	57.6	2.100	2.58	7.74	-128	136	20	~220	
1338	10.90	57.2	2.102	1.62	7.600	-146	125	~30.5		
1343	10.00	57.0	2.103	1.45	7.64	-151	122	~41.0		
1348	10.89	56.9	2.103	1.37	7.63	-154	112	~41.5		
1353	10.90	56.8	2.104	1.29	7.601	-158	89.1	~42.0		
1358	10.90	56.9	2.104	1.21	7.59	-161	73.9	~42.5		
1403	10.90	56.9	2.104	1.18	7.600	-163	80.9	~43.0		
1408	10.90	56.9	2.103	1.17	7.601	-166	70.7	~43.5		
1413	10.90	56.9	2.103	1.16	7.602	-169	65.9	~44.0		
1419	10.90	56.9	2.103	1.14	7.603	-170	63.8	~44.5		

SAMPLE ID: W-2330025-102919-SCD-015

SAMPLE DATE: 10/29/19

SAMPLE TIME: 1419

Notes: Began purging @ 1328

Collected DUP-1(016) W-2330025-102919-SCD-016

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT.
www.MannikSmithGroup.com

DATE: 10/22/18

PERSONNEL: SCP

OBSERVERS: _____

SAMPLE LOCATION: MW-4

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: ~60° F ; cloudy

DEPTH OF WELL: 21.54'

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 14.80'

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1448	14.94	57.6	2.26	3.26	7.71	-112	78.9	0	~220	
1453	14.94	57.0	2.26	1.89	7.57	-122	72.4	~0.5		
1458	14.94	56.5	2.32	1.49	7.54	-132	69.0	~1.0		
1503	14.94	56.1	2.37	1.32	7.55	-141	65.7	~1.5		
1508	14.94	55.8	2.38	1.22	7.55	-148	63.9	~2.0		
1513	14.94	55.7	2.39	1.19	7.55	-149	63.7	~2.5		
1518	14.94	55.6	2.39	1.17	7.55	-150	63.0	~3.0		
1523	14.94	55.6	2.39	1.18	7.55	-151	63.1	~3.5	✓	

SAMPLE ID: MW-R2330025-101818-SD-0917

SAMPLE DATE: 10/22/18

SAMPLE TIME: 1524

Notes: Began purging @ 1443

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT.
www.MannikSmithGroup.com

DATE: 10/29/19

PERSONNEL: SCD

OBSERVERS: _____

DEPTH OF WELL: 12.80'

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: MW-27

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH TO WATER LEVEL: 6.09'

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1555	6.11	56.5	1.50	2.85	7.84	-106	165.0	0	≈220	
1600	6.11	56.5	1.49	1.90	7.69	-116	55.1	≈0.5		
1605	6.12	56.3	1.49	1.93	7.66	-116	55.0	≈1.0		
1610	6.11	56.1	1.36	1.98	7.62	-117	54.7	≈1.5		
1615	6.12	56.0	1.33	2.03	7.61	-117	54.4	≈2.0		
1620	6.12	56.0	1.33	1.92	7.61	-118	54.1	≈2.5		
1625	6.11	55.9	1.33	1.85	7.61	-119	53.7	≈3.0		
1630	6.11	55.9	1.33	1.78	7.61	-122	53.0	≈3.5		
1635	6.12	55.9	1.33	1.75	7.61	-124	52.7	≈4.0	↓	

SAMPLE ID: JJ-2330025-102919-SCD-MW

SAMPLE DATE: 10/29/19

SAMPLE TIME: 1636

Notes: Began purging @ 1550

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

SAMPLE LOCATION: MW-17

DATE: 10/30/19

PROJECT #: R2330025

PERSONNEL: KCM

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Rain 40°F

DEPTH OF WELL: 17.75

DEPTH TO WATER LEVEL: 8.25

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
825	8.25	53.7	2.66	12.01	7.59	28	0.0	0.05		
840	8.25	56.8	2.24	4.37	7.56	-50	50.6	0.10		
845	8.25	57.5	1.84	2.79	7.64	-63	17.8	0.175		
8.50	8.25	57.7	1.77	2.34	7.75	-70	11.4	0.20		
8.55	8.25	57.6	1.73	2.04	7.89	-79	6.4.6	0.25		
9:00	8.25	57.7	1.73	1.92	7.96	-78	5.9	0.30		
9:05	8.25	57.8	1.70	1.84	7.97	-82	3.7.0	0.35		
9:10	8.25	57.7	1.71	8.69	7.99	-84	4.4.6	0.50		
9:15	8.25	57.8	1.70	1.83	7.97	-84	80.7	0.75		
9.20	8.25	57.8	1.70	1.60	8.01	-88	24.4	1.00		

SAMPLE ID: W-R2330025-103019-KCM-022

SAMPLE DATE: 10/30/19

SAMPLE TIME: 0925

Notes: started @ 820

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized



LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/30/19

PERSONNEL: CRM

OBSERVERS: _____

DEPTH OF WELL: 15.74

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

SAMPLE LOCATION: MW-18

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Rain 40

DEPTH TO WATER LEVEL: ~~1.99~~ 2.54

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1010	2.54	56.1	4.65	12.06	8.22	-13	904	0.15		
1015	2.52	56.3	4.33	8.17	8.23	1.0	595	0.20		
1020	2.53	56.5	4.16	7.95	8.21	16	388	0.25		
1025	2.53	56.7	4.13	7.42	8.17	27	207	0.33		
1030	2.53	56.8	4.15	7.60	8.15	31	150	0.40		
1035	2.53	56.8	4.18	7.54	8.16	34	110	0.50		
1040	2.53	56.9	4.21	7.23	8.16	34	91.3	0.65		
1045	2.53	57.0	4.28	7.93	8.13	37	66.0	0.95		
1050	2.53	57.0	4.30	6.72	8.12	37	48.9	1.35		
1055	2.53	57.0	4.30	6.78	8.13	37	43.2	1.80		
1100	2.53	57.1	4.33	6.66	8.12	36	44.7	2.15		

SAMPLE ID: W-R2330025-1030R-CRM-023

SAMPLE DATE: 10/30/19

SAMPLE TIME: 1105

Notes: Started @ 1005

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/30/19

PERSONNEL: KDM

OBSERVERS: _____

DEPTH OF WELL: 14.42

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: MW-19

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: overcast 45°F

DEPTH TO WATER LEVEL: 2.39

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
11:45	2.5[illegible]	50.7	3.23	8.76	8.06	183	390	0		
11:50	2.50	54.3	5.01	3.70	8.00	-4	0.0	≈0.2		
11:55	2.50	56.2	4.63	4.00	8.06	-43	0.0	≈0.4		
12:00	2.50	57.1	4.23	4.48	8.10	-42	1000	≈0.5		
12:05	2.50	57.3	4.26	4.08	8.13	-40	727	≈0.7		
12:10	2.50	57.5	4.12	4.30	8.14	-36	321	≈0.8		
12:15	2.50	57.5	4.04	3.85	8.15	-35	193	≈1.0		
12:20	2.50	57.4	4.01	3.87	8.15	-34	132	≈1.1		
12:25	2.50	57.5	4.05	3.30	8.15	-43	67.6	≈1.3		
12:30	2.50	57.5	4.07	2.66	8.16	-50	27.3	≈1.5		
12:35	2.50	57.7	3.96	3.06	8.16	-48	73.1	≈1.7		
12:40	2.50	57.7	3.91	3.21	8.17	-46	75.5	≈1.8		
[illegible]								[illegible]		

SAMPLE ID: W-R2330025-103019-KDM-024

SAMPLE DATE: 10/30/19

SAMPLE TIME: 12:45

Notes: Started @ 11:43

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/30/19

SAMPLE LOCATION: MW-20

PERSONNEL: KRM, LMD

OBSERVERS: _____

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Light rain 43°

DEPTH OF WELL: 14.95

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 5.42

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
13:10	5.42	53.3	1.27	15.06	8.32	137	0.0	0		
13:15	5.51	59.0	2.00	2.96	7.89	53	0.0	≈0.2		
13:20	5.51	59.2	2.06	2.80	8.01	-18	0.0	≈0.3		
13:25	5.51	55.9	.001	10.86	8.22	23	538	≈0.5		
13:30	5.51	59.4	2.17	2.26	8.08	-20	423	≈0.6		
13:35	5.51	59.7	2.19	1.96	8.15	-47	279	≈0.8		
13:40	5.51	60.0	2.18	1.73	8.18	-54	229	≈1.0		
13:45	5.51	60.0	2.18	1.64	8.14	-59	174	≈1.2		
13:50	5.51	59.8	2.18	1.59	8.14	-64	140	≈1.4		
13:55	5.51	59.9	2.18	1.47	8.13	-67	110	≈1.5		
14:00	5.51	59.9	2.19	1.40	8.12	-68	91.6	≈1.7		
14:05	5.51	60.1	2.17	1.35	8.17	-67	76.1	≈2.0		
14:10	5.51	60.0	2.18	1.29	8.11	-71	62.9	≈2.3		

SAMPLE ID: W-R2330025-103019-KRM-026

SAMPLE DATE: 10/30/19

SAMPLE TIME: 14:15

Notes: shirked @ 13:06

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/30/19

PERSONNEL: KRM, LMD

OBSERVERS: _____

SAMPLE LOCATION: /

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Rain 42°F

DEPTH OF WELL: /

SCREEN LENGTH: /

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: /

WELL DIAMETER: /

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			

SAMPLE ID: W-R2330025-103019-KRM-0256

SAMPLE DATE: 10/30/19

SAMPLE TIME: 1425

Notes: Equipment Blank - 3

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/30/19

PERSONNEL: SCD

OBSERVERS: _____

SAMPLE LOCATION: MW-8

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: ~42°F; cloudy w/light rain

DEPTH OF WELL: _____

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 0.75'

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
0828	0.83	50.7	3.04	7.15	7.70	26	122	0	220	
0833	0.84	54.5	3.18	2.83	7.49	-107	127	~0.5		
0838	0.85	54.9	3.20	2.38	7.44	-121	105	~1.0		
0843	0.84	55.0	3.21	2.10	7.46	-128	86.7	~1.5		
0848	0.84	55.2	3.21	1.93	7.49	-135	69.6	~2.0		
0853	0.85	55.1	3.22	1.83	7.50	-139	66.4	~2.5		
0858	0.85	55.1	3.21	1.74	7.51	-141	66.5	~3.0		
0903	0.84	55.1	3.21	1.68	7.52	-144	65.7	~3.5	↓	
0908										

SAMPLE ID: W-2330025-10309-SCD-021

SAMPLE DATE: 10/30/19

SAMPLE TIME: 0904

Notes: Began purging @ 0823

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/30/19

PERSONNEL: SCD

OBSERVERS: _____

DEPTH OF WELL: 16.61'

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

SAMPLE LOCATION: MW-16

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH TO WATER LEVEL: 12.88'

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1235	12.95	48.7	2.43	8.44	7.59	-11	85.7	~8	~220	
1240	12.99	51.8	2.30	2.96	7.31	-98	76.1	~0.5		
1245	12.94	52.2	2.30	2.17	7.21	-114	65.8	~1.0		
1250	12.94	52.6	2.29	2.19	7.37	-130	65.3	~1.5		
1255	12.94	52.9	2.29	1.93	7.43	-141	65.0	~2.0		
1300	12.94	53.0	2.29	1.81	7.45	-148	61.7	~2.5		
1305	12.94	53.1	2.28	1.74	7.46	-152	65.0	~3.0		
1310	12.94	53.2	2.28	1.63	7.47	-158	65.0	~3.5		

SAMPLE ID: W-2330025-103019-SCD-025

SAMPLE DATE: 10/30/19

SAMPLE TIME: 13:11

Notes: Began purging @ 1230

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. AMAZING SPIRIT. — www.MannikSmithGroup.com

SAMPLE LOCATION: MW-13

DATE: 10/30/19

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SCD

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: ~43°F, cloudy + rain

DEPTH OF WELL: 24.51' (should be 24.5' if clay/silt block sump)

DEPTH TO WATER LEVEL: 15.52'

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1330	15.56	53.6	4.10	3.94	7.58	-140	611	~2	~250	
1343	15.56	54.3	4.07	1.82	7.60	-167	1193	~3.5		
1348	15.56	54.5	4.19	1.83	7.61	-171	923	~4.0		
1353	15.56	55.9	3.61	2.16	7.69	-171	761	~2.0		
1358	15.56	55.1	4.45	1.82	7.63	-180	383	~2.5		
1403	15.56	54.8	4.48	1.83	7.65	-185	1000+	~3.0		
1408	15.56	55.7	3.51	1.67	7.56	-177	135	~3.5		
1413	15.56	55.6	4.05	1.82	7.61	-180	522	~4.0		
1418	15.56	55.6	4.34	1.72	7.56	-186	512	~4.5		
1423	15.56	55.5	4.37	1.72	7.62	-190	414	~5.0		
1428	15.56	55.5	4.36	1.72	7.62	-191	389	~5.5		
1433	15.56	55.5	4.35	1.71	7.62	-192	379	~6.0		

SAMPLE ID: W-2330025-103019-SCD-027

SAMPLE DATE: 10/30/19

SAMPLE TIME: 1434

Notes: Began purging @ 1333

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. INTERSTATE SPIRIT.
www.MannikSmithGroup.com

DATE: 10/31/19

SAMPLE LOCATION: MW-20

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SCD

SITE ADDRESS: Mi Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: ~46°F; Rain + wind

DEPTH OF WELL: _____

DEPTH TO WATER LEVEL: 4.73

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
0810	5.18	56.7	0.688	8.51	7.94	-100	173	0	~220	
0815	5.32	57.0	0.789	3.97	7.53	-98	145	~0.5		
0850	5.51	58.3	0.887	2.50	7.38	-100	130	~1.0		
0855	5.72	58.2	0.904	2.25	7.35	-105	104	~1.5		
0900	5.71	58.2	0.916	2.01	7.33	-111	93.7	32.0		
0905	5.72	58.2	0.928	1.80	7.31	-119	80.6	~2.5		
0910	5.72	58.2	0.927	1.68	7.31	-123	79.5	~3.0		
0915	5.72	58.1	0.931	1.59	7.30	-126	78.4	~3.5		
0920	5.72	58.1	0.930	1.57	7.30	-128	78.2	~4.0	1L	

SAMPLE ID: W-2330025-103119-SCD-020

SAMPLE DATE: 10/31/19

SAMPLE TIME: 0921

Notes: Began purging @ 0835

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. — www.MannikSmithGroup.com

DATE: 10/31/19

PERSONNEL: KRM

OBSERVERS: _____

SAMPLE LOCATION: MW-30

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: rain 40°F

DEPTH OF WELL: 17.5

DEPTH TO WATER LEVEL: 4.12

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (mS/cm) (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
855	3.87	57.6	.433	9.45	7.69	212	109	.75		
900	4.88	56.5	.434	3.70	7.75	166	89.8	.35		
905	5.02	58.6	.435	2.72	7.86	130	59.9	.45		
910	5.77	58.9	.450	2.20	7.94	87	37.7	.50		
915	6.34	58.9	.448	2.02	8.01	33	24.6	.60		
920	6.98	58.5	.449	1.86	8.08	-9	15.5	.70		
925	7.21	58.6	.454	2.54	8.16	-36	17.8	.80		
930	7.92	57.5	.460	1.78	8.26	-60	19.2	.95		
935	8.34	57.3	.459	1.95	8.34	-70	21.8	1.10		
940	9.10	57.3	.456	2.07	8.33	-85	20.9	1.25		
945	Bellow BL	57.3	.478	2.01	8.29	-93	19.0	1.35		
950	1	57.4	.485	2.07	8.27	-96	30.0	1.40		
955	1	57.5	.465	1.93	8.24	-98	30.7	1.45		

SAMPLE ID: W-R2330025-103119-KRM-020

SAMPLE DATE: 10/31/19

SAMPLE TIME: 10:00

Notes: Started @ 8:50 - water level went below bladder

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/31/19

SAMPLE LOCATION: M-34

PERSONNEL: KEM

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast 48°F

DEPTH OF WELL: 13.30

DEPTH TO WATER LEVEL: 3.75

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1410	3.80	55.4	1.29	6.84	8.11	200	554	.05		
1415	3.77	57.3	1.26	7.46	8.14	107	336	.12		
1420	3.77	57.3	1.32	7.16	8.26	~~116~~	193	.19		
1425	3.77	57.2	1.33	6.95	8.26	113	154	.25		
1430	3.77	57.6	1.39	10.60	8.33	119	102	.40		
1435	3.77	58.0	1.44	7.60	8.36	119	99.3	.60		
1440	3.77	58.0	1.51	7.07	8.38	118	70.0	.85		
1445	3.77	~~57.9~~	1.58	7.46	8.41	117	72.8	~~1.10~~ 1.10		
1450	3.77	58.1	1.60	7.20	8.39	118	65.6	1.75		

SAMPLE ID: W-R2330025-103119-KEM-031

SAMPLE DATE: 10/31/19

SAMPLE TIME: 1455

Notes: started @ 1400

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 10/31/19

PERSONNEL: KRM

OBSERVERS: _____

SAMPLE LOCATION: /

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: /

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: /

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			

SAMPLE ID: W-R2330025-103119-KRM-033

SAMPLE DATE: 10/31/19

SAMPLE TIME: 1525

Notes: Equip Blank -4

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

SAMPLE LOCATION: Equipment Blank #1

DATE: 10/28/19

PROJECT #: R2330025

PERSONNEL: SCD

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: _____

DEPTH OF WELL: _____

DEPTH TO WATER LEVEL: _____

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			

SAMPLE ID: W-R2330025-102819-SCD-006

SAMPLE DATE: 10/28/19

SAMPLE TIME: 1430

Notes: Equipment Blank #1

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Manik Smith Group — TECHNICAL SKILL. — www.ManikSmithGroup.com

DATE: 11/01/19

PERSONNEL: SCD/KRM

OBSERVERS: _____

DEPTH OF WELL: 18.15

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

SAMPLE LOCATION: MW-11

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: ~40°F; cloudy

DEPTH TO WATER LEVEL: 9.10

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1356	9.09	51.3	1.25	8.03	7.46	-16	>1000	0	≈220	
1401	9.09	52.4	1.38	3.38	7.18	-109	913	0.1		
1406	9.09	52.4	1.38	2.70	7.19	-120	777	0.25		
1411	9.09	55.0	1.28	1.83	7.46	-121	357	0.50		
1416	9.09	55.7	1.07	1.59	7.49	-109	161	.75		
1421	9.09	55.9	1.01	1.60	7.47	-104	114	1.00		
1426	9.09	55.8	0.969	1.57	7.40	-101	136	1.50		
1431	9.09	55.9	0.955	1.41	7.39	-100	120	2.00		
1436	9.09	56.1	0.942	1.43	7.39	-101	116	2.50		
1441	9.09	55.9	0.938	1.35	7.46	-101	114	3.00		

SAMPLE ID: W-23300025-110119-SCD-0411

SAMPLE DATE: 11/01/19

SAMPLE TIME: 1450

Notes: Began purging @ 1355

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT.
www.MannikSmithGroup.com

DATE: 11/01/19

PERSONNEL: SCD

OBSERVERS: _____

SAMPLE LOCATION: MW-24

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: 55°F, cloudy

DEPTH OF WELL: _____

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 8.82'

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
0820	9.18	55.8	1.15	4.23	7.44	75	548	0	250	
0825	9.10	55.9	1.11	2.90	7.27	44	989	≈0.5		
0830	9.11	55.9	1.10	2.63	7.20	22	707	≈1.0		
0835	9.11	54.9	1.09	2.59	7.35	1	515	≈1.5		
0840	9.11	57.1	1.09	1.93	7.26	-21	430	≈2.0		
0845	9.11	57.7	1.09	1.76	7.24	-34	346	≈2.5		
0850	9.11	58.2	1.09	1.63	7.25	-51	248	≈3.0		
0855	9.11	58.4	1.09	1.52	7.26	-65	197	≈3.5		
0900	9.11	58.1	1.10	1.55	7.27	-68	183	≈4.0		
0905	9.11	58.1	1.10	1.51	7.27	-73	179	≈4.5	↓	

SAMPLE ID: W-2330025-110119-SCD-035

SAMPLE DATE: 11/01/19

SAMPLE TIME: 0906

Notes: Begin purging @ 0815

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

35

LOW FLOW GROUND WATER SAMPLING FORM

Manik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.ManikSmithGroup.com

SAMPLE LOCATION: MW-3

DATE: 10/31/19

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SCP

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

OBSERVERS: _____

SITE CONDITIONS: ~46°F; cloudy w/ rain

DEPTH OF WELL: _____

DEPTH TO WATER LEVEL: 5.61

SCREEN LENGTH: _____

WELL DIAMETER: 2"

TUBING TYPE: Teflon Line PE

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1400	5.62	54.8	3.15	5.85	7.19	-30	143	0	~220	
1405	5.62	54.9	3.17	3.13	7.20	-88	150	~0.5		
1410	5.62	55.1	3.12	2.73	7.22	-104	137	~1.0		
1415	5.62	55.1	2.57	2.48	7.33	-119	78.5	~1.5		
1420	5.62	55.1	2.54	2.40	7.33	-119	79.6	~2.0		
1425	5.62	55.2	2.50	2.23	7.34	-122	26.5	~2.5		
1430	5.62	55.3	2.46	2.28	7.35	-123	75.8	~3.0		
1435	5.62	55.2	2.44	2.25	7.36	-123	75.8	~3.5		

SAMPLE ID: W-2330025-103119-SCP-032

SAMPLE DATE: 10/31/19

SAMPLE TIME: 1436

Notes: Began purging @ 1355

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 11/01/19

PERSONNEL: SCD

OBSERVERS: _____

DEPTH OF WELL: 15.07'

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

SAMPLE LOCATION: MW-23

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Egorse Rd, Van Buren Twp, MI

SITE CONDITIONS: ~36°F, Cloudy

DEPTH TO WATER LEVEL: 8.38 8.85 → Monday

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm) MS	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
0950	8.39	54.1	2.80	9.32	7.23	-35	208	0	~220	
0955	8.39	54.4	2.69	2.51	7.34	-62	231	~0.5		
1000	8.39	54.6	2.58	2.07	7.36	-129	190	~1.0		
1005	8.39	54.3	2.52	2.77	7.38	-136	137	~1.5		
1010	8.39	53.9	2.45	3.51	7.39	-140	115	~2.0		
1015	8.39	55.9	2.28	1.69	7.37	-141	125	~2.5		
1020	8.39	56.4	2.21	1.62	7.36	-142	127	~3.0		
1025	8.39	56.6	2.17	1.59	7.35	-143	109	~3.5		
1030	8.39	56.6	2.16	1.50	7.35	-143	107	~4.0		
1035	8.39	56.6	2.15	1.51	7.36	-145	107	~4.5	↓	
1040										

SAMPLE ID: MW-23-R2330025-11019-SCD-037

SAMPLE DATE: 11/01/19

SAMPLE TIME: 1036

Notes: Began purging @ 0945

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. DEDICATION. EFFECT. — www.MannikSmithGroup.com

DATE: 11/01/19

PERSONNEL: SCD

OBSERVERS: _____

SAMPLE LOCATION: MW-21

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: 38°F; cloudy

DEPTH OF WELL: _____

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 8.06

WELL DIAMETER: 2"

CASING TYPE: PVC

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1130	8.10	52.6	0.401	6.36	8.54	-74	155	0	≈220	
1135	8.09	53.8	0.374	2.93	8.24	-72	181	≈0.5		
1140	8.10	54.8	0.362	2.41	8.14	-75	180	≈1.0		*Bladder pump set at 4.5 ft bgs
1145	8.10	54.9	0.406	1.81	8.03	-80	129	≈1.5		
1150	8.09	55.2	0.429	1.70	8.01	-82	120	≈2.0		
1155	8.10	55.8	0.445	1.57	7.98	-84	112	≈2.5		
1200	8.10	55.9	0.450	1.54	7.98	-85	111	≈3.0		
1205	8.09	56.0	0.453	1.51	7.99	-87	112	≈3.5		
1210	8.09	56.1	0.458	1.49	8.00	-89	111	≈4.0		

SAMPLE ID: W-2330025-110119-SCD-039

SAMPLE DATE: 11/01/19

SAMPLE TIME: 1211

Notes: Began purging @ 1125

Bladder pump ball valve not working right

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

8.05
11/05

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 11/01/19

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 14.88

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: M-22

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: overcast 38°F

DEPTH TO WATER LEVEL: 6.20

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
9:55	6.20	55.0	2.74	3.13	8.29	224	258	0.0		
10:00	6.20	53.6	2.72	3.26	8.33	40	201	0.03		
1005	6.20	56.2	2.17	1.84	8.32	-41	145	0.13		
1010	6.20	56.4	2.07	1.69	8.33	-59	79.5	0.2		
1015	6.20	56.7	2.02	1.60	8.36	-71	48.0	0.50		
1020	6.20	56.8	2.01	1.57	8.40	-78	35.7	0.75		
1025	6.20	56.9	1.98	1.50	8.44	-89	34.8	1.00		
1030	6.20	56.9	1.97	1.51	8.46	-90	26.9	1.25		
1035	6.21	56.6	1.97	1.43	8.46	-97	21.6	1.50		
1040	6.20	56.7	1.96	1.42	8.45	-94	20.3	1.75		
1045	6.20	56.9	1.95	1.41	8.47	-98	19.9	2.00		

SAMPLE ID: W-R2330025-110119-KRM-036

SAMPLE DATE: 11/01/19

SAMPLE TIME: 1035

Notes: started 9:50 DUP-2 @1035. W-R2330025-110119-KRM-036

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 11/1/19

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 16.15

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

SAMPLE LOCATION: M-25

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Overcast, 35 F

DEPTH TO WATER LEVEL: 6.78

WELL DIAMETER: _____

CASING TYPE: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
820	6.91	57.9	0.869	4.45	7.69	197	0.0	0.1		
825	6.90	59.5	0.846	3.23	7.82	285	79.5	0.35		
830	6.90	60.4	0.832	2.50	8.02	273	24.5	0.50		
835	6.90	61.2	0.822	2.08	8.12	265	11.4	1.0		
840	6.90	61.0	0.819	1.92	8.19	257	90.3	1.50		
845	6.90	61.0	0.818	1.90	8.22	253	73.9	2.00		
850	6.90	61.0	0.815	2.28	8.22	247	57.9	2.50		
855	6.90	61.0	0.814	1.73	8.23	240	43.4	3.00		
900	6.90	61.0	0.812	1.63	8.24	235	31.3	3.50		
905	6.90	61.1	0.808	1.57	8.28	229	21.1	4.00		
910	6.90	61.1	0.809	1.57	8.26	230	21.5	4.50		
915	6.90	61.2	0.809	1.54	8.27	225	21.9	5.00		

SAMPLE ID: W-R2330025-110119-KRM-0314

SAMPLE DATE: 11/01/19

SAMPLE TIME: 915

Notes: started @ 815

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 11/01/19

SAMPLE LOCATION: MW-26

PERSONNEL: KRM

PROJECT #: R2330025

OBSERVERS: _____

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: cloudy 50°F

DEPTH OF WELL: 16.34

DEPTH TO WATER LEVEL: 8.63

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
11:40	8.65	54.1	~~0.23~~	8.40	8.39	191	119	0.6		
11:45	8.65	57.3	0.239	8.07	8.49	202	190	0.75		
11:50	8.65	58.0	0.240	7.72	8.55	209	156	1.0		
11:55	8.65	57.8	0.266	7.23	8.60	215	115	1.75		
12:00	8.65	57.7	0.285	6.92	8.65	219	62.3	2.50		
12:05	8.65	57.3	0.295	6.76	8.70	222	55.2	3.00		
12:10	8.65	57.4	0.302	6.58	8.72	223	40.2	~~4.00~~ 3.75		
12:15	8.65	57.2	0.307	6.51	8.76	227	32.8	4.25		
12:20	8.65	57.3	0.312	6.41	8.75	230	28.1	4.75		
12:25	8.65	57.2	0.314	6.36	8.76	232	26.2	5.25		
12:30	8.65	57.1	0.316	6.65	8.75	234	24.1	6.00		

SAMPLE ID: W-R2330025-110119-KRM-040

SAMPLE DATE: 11/01/19

SAMPLE TIME: 1235

Notes: started @ 11:33

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. CREATIVE SPIRIT. — www.MannikSmithGroup.com

DATE: 11/01/19

PERSONNEL: KGLM

OBSERVERS: _____

SAMPLE LOCATION: /

PROJECT #: R2330025

SITE NAME: RACER - Van Buren Landfill

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: Partly cloudy 41°F

DEPTH OF WELL: /

SCREEN LENGTH: /

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: /

WELL DIAMETER: /

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			

SAMPLE ID: W-R2330025-110119-KGLM-042

SAMPLE DATE: 11/01/19

SAMPLE TIME: 1520

Notes: Equipment Blank # 5

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

LOW FLOW GROUND WATER SAMPLING FORM

Mannik Smith Group — TECHNICAL SKILL. — www.MannikSmithGroup.com

SAMPLE LOCATION: CRA 266M

DATE: 11/4/19

PROJECT #: R2330025

PERSONNEL: KLM

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

SITE ADDRESS: MI Ave and Ecorse Rd, Van Buren Twp, MI

SITE CONDITIONS: clear, 46°F

DEPTH OF WELL: 12.10

DEPTH TO WATER LEVEL: 3.31

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder pump, Horiba meter, water level meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (mS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
10:22	3.33	56.9	0.603	3.33	7.74	252	6.5	0		
10:27	3.34	56.5	0.605	2.81	7.71	241	5.7	0.5		
10:32	3.34	56.3	0.611	2.60	7.70	230	5.8	1.0		
10:37	3.34	56.4	0.601	2.37	7.68	217	6.1	1.35		
10:42	3.34	56.4	0.607	2.21	7.69	206	6.1	1.80		
10:47	3.34	56.3	0.603	2.19	7.69	194	6.6	2.25		
10:52	3.34	56.3	0.605	2.04	7.70	180	6.8	2.85		
10:57	3.34	56.4	0.605	1.96	7.72	172	7.7	3.10		
11:02	3.34	56.3	0.605	1.93	7.72	165	6.9	3.56		
11:07	3.34	56.5	0.605	1.83	7.74	156	6.9	3.90		
11:12	3.34	56.5	0.608	1.90	7.76	146	6.9	4.35		
11:17	3.34	56.7	0.606	1.79	7.77	135	6.9	4.65		
11:22	3.34	56.5	0.601	1.72	7.79	132	6.7	5.00		

SAMPLE ID: W-R2330025-110419-KLM-043

SAMPLE DATE: 11/4/19

SAMPLE TIME: 11:27

Notes: started @ 1015 * All but ORP equilibrated

[1] - 10% for values greater than 0.5 mg/L, if three DO values are less than 0.5 mg/L, consider the values as stabilized

[2] - 10% for values greater than 5 NTU; if three Turbidity values are less than 5 NTU, consider the values as stabilized

ATTACHMENT 2

LABORATORY ANALYTICAL DATA REPORTS

25-Nov-2019

Jason Martinez
The Mannik & Smith Group, Inc.
2365 Haggerty Road South
Suite 100
Canton, MI 48188

Re: **RACER - Van Buren Landfill** Work Order: **19110348**

Dear Jason, Revision: **1**

ALS Environmental received 44 samples on 06-Nov-2019 08:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 82.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Bill Carey

Bill Carey
Project Manager

Report of Laboratory Analysis

ALS Group, USA

Date: 25-Nov-19

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Work Order: **19110348**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19110348-01	W-R2330025-102819-KRM-001	Water		10/28/2019 09:40	11/6/2019 08:00	☐
19110348-02	W-R2330025-102819-KRM-002	Water		10/28/2019 10:53	11/6/2019 08:00	☐
19110348-03	W-R2330025-102819-KRM-003	Water		10/28/2019 13:00	11/6/2019 08:00	☐
19110348-04	W-R2330025-102819-SCD-004	Water		10/28/2019 13:40	11/6/2019 08:00	☐
19110348-05	W-R2330025-102819-KRM-005	Water		10/28/2019 14:30	11/6/2019 08:00	☐
19110348-06	W-R2330025-102819-SCD-006	Water		10/28/2019 14:30	11/6/2019 08:00	☐
19110348-07	W-R2330025-102919-KRM-007	Water		10/29/2019 09:00	11/6/2019 08:00	☐
19110348-08	W-R2330025-102919-SCD-008	Water		10/29/2019 09:07	11/6/2019 08:00	☐
19110348-09	W-R2330025-102919-KRM-009	Water		10/29/2019 10:27	11/6/2019 08:00	☐
19110348-10	W-R2330025-102919-SCD-010	Water		10/29/2019 10:42	11/6/2019 08:00	☐
19110348-11	W-R2330025-102919-SCD-011	Water		10/29/2019 11:51	11/6/2019 08:00	☐
19110348-12	W-R2330025-102919-KRM-012	Water		10/29/2019 12:08	11/6/2019 08:00	☐
19110348-13	W-R2330025-102919-SCD-013	Water		10/29/2019 13:03	11/6/2019 08:00	☐
19110348-14	W-R2330025-102919-KRM-014	Water		10/29/2019 14:06	11/6/2019 08:00	☐
19110348-15	W-R2330025-102919-SCD-015	Water		10/29/2019 14:19	11/6/2019 08:00	☐
19110348-16	W-R2330025-102919-SCD-016	Water		10/29/2019 14:19	11/6/2019 08:00	☐
19110348-17	W-R2330025-102919-SCD-017	Water		10/29/2019 15:24	11/6/2019 08:00	☐
19110348-18	W-R2330025-102919-KRM-018	Water		10/29/2019 16:25	11/6/2019 08:00	☐
19110348-19	W-R2330025-102919-SCD-019	Water		10/29/2019 16:36	11/6/2019 08:00	☐
19110348-20	W-R2330025-102919-KRM-020	Water		10/29/2019 17:08	11/6/2019 08:00	☐
19110348-21	W-R2330025-103019-SCD-021	Water		10/30/2019 09:04	11/6/2019 08:00	☐
19110348-22	W-R2330025-103019-KRM-022	Water		10/30/2019 09:25	11/6/2019 08:00	☐
19110348-23	W-R2330025-103019-KRM-023	Water		10/30/2019 11:05	11/6/2019 08:00	☐
19110348-24	W-R2330025-103019-KRM-024	Water		10/30/2019 12:45	11/6/2019 08:00	☐
19110348-25	W-R2330025-103019-SCD-025	Water		10/30/2019 13:11	11/6/2019 08:00	☐
19110348-26	W-R2330025-103019-KRM-026	Water		10/30/2019 14:15	11/6/2019 08:00	☐
19110348-27	W-R2330025-103019-SCD-027	Water		10/30/2019 14:34	11/6/2019 08:00	☐
19110348-28	W-R2330025-103019-KRM-028	Water		10/30/2019 14:25	11/6/2019 08:00	☐
19110348-29	W-R2330025-103119-SCD-029	Water		10/31/2019 09:21	11/6/2019 08:00	☐
19110348-30	W-R2330025-103119-KRM-030	Water		10/31/2019 10:00	11/6/2019 08:00	☐
19110348-31	W-R2330025-103119-KRM-031	Water		10/31/2019 14:55	11/6/2019 08:00	☐
19110348-32	W-R2330025-103119-SCD-032	Water		10/31/2019 14:36	11/6/2019 08:00	☐
19110348-33	W-R2330025-103119-KRM-033	Water		10/31/2019 15:25	11/6/2019 08:00	☐
19110348-34	W-R2330025-110119-KRM-034	Water		11/1/2019 09:15	11/6/2019 08:00	☐
19110348-35	W-R2330025-110119-SCD-035	Water		11/1/2019 09:06	11/6/2019 08:00	☐
19110348-36	W-R2330025-110119-KRM-036	Water		11/1/2019 10:55	11/6/2019 08:00	☐
19110348-37	W-R2330025-110119-SCD-037	Water		11/1/2019 10:36	11/6/2019 08:00	☐
19110348-38	W-R2330025-110119-KRM-038	Water		11/1/2019 10:55	11/6/2019 08:00	☐
19110348-39	W-R2330025-110119-SCD-039	Water		11/1/2019 12:11	11/6/2019 08:00	☐

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Work Order: **19110348**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
19110348-40	W-R2330025-110119-KRM-040	Water		11/1/2019 12:35	11/6/2019 08:00	☐
19110348-41	W-R2330025-110119-SCD-041	Water		11/1/2019 14:50	11/6/2019 08:00	☐
19110348-42	W-R2330025-110119-KRM-042	Water		11/1/2019 15:20	11/6/2019 08:00	☐
19110348-43	W-R2330025-110419-KRM-043	Water		11/4/2019 11:27	11/6/2019 08:00	☐
19110348-44	Trip Blank	Water		11/4/2019	11/6/2019 08:00	☐

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
WorkOrder: **19110348**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Work Order: 19110348

Case Narrative

Samples for the above noted Work Order were received on 11/6/2019. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:
No other deviations or anomalies were noted.

Metals:
Batch 145520, Method ICP_6020_W, Sample 19110348-11AMS: The MS recovery was above the upper control limit. The corresponding result in the parent sample may be biased high for this analyte: Al

Batch 145520, Method ICP_6020_W, Sample 19110348-11AMS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mn

Batch 145520, Method ICP_6020_W, Sample 19110348-11AMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Mn

Batch 145520, Method ICP_6020_W, Sample 19110348-11AMSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for this analyte: Al

Batch 145536, Method ICP_6020_W, Sample 19110348-31AMS: The MS recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Al

Batch 145536, Method ICP_6020_W, Sample 19110348-31AMSD: The MSD recovery was outside of the control limit; however, the result in the parent sample is greater than 4x the spike amount. No qualification is required for this analyte: Al

Batch 145541, Method ICP_6020_W, Sample 19110348-41AMS: The MS recovery was outside of the control limit. However, the MSD recovery and the RPD between the MS and MSD was in control. No qualification is required for this analyte: Mn

ALS Group, USA

Date: *25-Nov-19*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102819-KRM-001
Collection Date: 10/28/2019 09:40 AM

Work Order: 19110348
Lab ID: 19110348-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.0085**	J	**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:15
Iron	U		0.050	0.080	mg/L	1	11/13/2019 14:15
Manganese	**0.0041**	J	**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:15
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:21
Iron	U		0.050	0.080	mg/L	1	11/13/2019 14:21
Manganese	**0.0026**	J	**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:21

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102819-KRM-002
Collection Date: 10/28/2019 10:53 AM

Work Order: 19110348
Lab ID: 19110348-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.0097**	J	**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:22
Iron	**0.20**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:22
Manganese	**0.13**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:22
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:24
Iron	**0.18**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:24
Manganese	**0.12**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102819-KRM-003
Collection Date: 10/28/2019 01:00 PM

Work Order: 19110348
Lab ID: 19110348-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.30**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:26
Iron	**2.2**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:26
Manganese	**0.61**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:26
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:31
Iron	**1.5**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:31
Manganese	**0.59**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102819-SCD-004
Collection Date: 10/28/2019 01:40 PM

Work Order: 19110348
Lab ID: 19110348-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.30**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:32
Iron	**6.4**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:32
Manganese	**0.088**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:32
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.011**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:34
Iron	**6.1**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:34
Manganese	**0.091**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102819-KRM-005
Collection Date: 10/28/2019 02:30 PM

Work Order: 19110348
Lab ID: 19110348-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.028**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:36
Iron	**4.1**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:36
Manganese	**0.069**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:36
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:38
Iron	**3.9**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:38
Manganese	**0.070**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102819-SCD-006
Collection Date: 10/28/2019 02:30 PM

Work Order: 19110348
Lab ID: 19110348-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.060**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:40
Iron	**0.33**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:40
Manganese	**0.0036**	J	**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:40
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:41
Iron	U		0.050	0.080	mg/L	1	11/13/2019 14:41
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 14:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-KRM-007
Collection Date: 10/29/2019 09:00 AM

Work Order: 19110348
Lab ID: 19110348-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.010**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:43
Iron	**8.5**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:43
Manganese	**1.1**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:43
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:45
Iron	**7.7**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:45
Manganese	**1.0**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-008
Collection Date: 10/29/2019 09:07 AM

Work Order: 19110348
Lab ID: 19110348-08
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:47
Iron	**23**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:47
Manganese	**0.40**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:47
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:52
Iron	**23**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:52
Manganese	**0.40**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:52

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-KRM-009
Collection Date: 10/29/2019 10:27 AM

Work Order: 19110348
Lab ID: 19110348-09
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:54
Iron	**25**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:54
Manganese	**0.23**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:54
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:56
Iron	**24**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:56
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-010
Collection Date: 10/29/2019 10:42 AM

Work Order: 19110348
Lab ID: 19110348-10
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	**0.015**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 14:57
Iron	**20**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:57
Manganese	**0.72**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:57
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145519							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 14:59
Iron	**20**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 14:59
Manganese	**0.72**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 14:59

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-011
Collection Date: 10/29/2019 11:51 AM

Work Order: 19110348
Lab ID: 19110348-11
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.021**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:06
Iron	**20**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:06
Manganese	**0.53**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:06
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:15
Iron	**18**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:15
Manganese	**0.52**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-KRM-012
Collection Date: 10/29/2019 12:08 PM

Work Order: 19110348
Lab ID: 19110348-12
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.10**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:17
Iron	**4.0**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:17
Manganese	**0.077**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:17
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:19
Iron	**3.7**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:19
Manganese	**0.076**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:19

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-013
Collection Date: 10/29/2019 01:03 PM

Work Order: 19110348
Lab ID: 19110348-13
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.0089**	J	**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:21
Iron	**9.5**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:21
Manganese	**0.38**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:21
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:22
Iron	**9.4**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:22
Manganese	**0.38**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:22

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-KRM-014
Collection Date: 10/29/2019 02:06 PM

Work Order: 19110348
Lab ID: 19110348-14
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:24
Iron	**12**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:24
Manganese	**0.18**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:24
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:26
Iron	**12**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:26
Manganese	**0.20**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:26

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-015
Collection Date: 10/29/2019 02:19 PM

Work Order: 19110348
Lab ID: 19110348-15
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.016**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:28
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:28
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:28
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:30
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:30
Manganese	**0.28**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-016
Collection Date: 10/29/2019 02:19 PM

Work Order: 19110348
Lab ID: 19110348-16
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.022**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:35
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:35
Manganese	**0.30**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:35
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:37
Iron	**12**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:37
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-017
Collection Date: 10/29/2019 03:24 PM

Work Order: 19110348
Lab ID: 19110348-17
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.0086**	J	**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:39
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:39
Manganese	**0.074**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:39
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:41
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:41
Manganese	**0.073**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:41

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-KRM-018
Collection Date: 10/29/2019 04:25 PM

Work Order: 19110348
Lab ID: 19110348-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.018**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:42
Iron	**15**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:42
Manganese	**0.52**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:42
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.0083**	J	**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:44
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:44
Manganese	**0.52**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:44
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **JNS**
BatchID: R275144							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/12/2019 20:47
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/12/2019 20:47
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/12/2019 20:47
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/12/2019 20:47
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/12/2019 20:47
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/12/2019 20:47
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	11/12/2019 20:47
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/12/2019 20:47
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/12/2019 20:47
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/12/2019 20:47
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/12/2019 20:47
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/12/2019 20:47
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/12/2019 20:47
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/12/2019 20:47
2-Butanone	U		0.52	25	µg/L	1	11/12/2019 20:47
2-Hexanone	U		0.59	50	µg/L	1	11/12/2019 20:47
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	11/12/2019 20:47
Acetone	U		6.2	50	µg/L	1	11/12/2019 20:47
Benzene	**4.3**		**0.46**	**1.0**	**µg/L**	1	11/12/2019 20:47
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/12/2019 20:47
Bromoform	U		0.56	1.0	µg/L	1	11/12/2019 20:47
Bromomethane	U		0.90	5.0	µg/L	1	11/12/2019 20:47
Carbon disulfide	U		0.49	5.0	µg/L	1	11/12/2019 20:47
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/12/2019 20:47
Chlorobenzene	**31**		**0.40**	**1.0**	**µg/L**	1	11/12/2019 20:47
Chloroethane	U		0.68	5.0	µg/L	1	11/12/2019 20:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-KRM-018
Collection Date: 10/29/2019 04:25 PM

Work Order: 19110348
Lab ID: 19110348-18
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	11/12/2019 20:47
Chloromethane	**1.5**	J	**0.83**	**5.0**	**µg/L**	1	11/12/2019 20:47
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/12/2019 20:47
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/12/2019 20:47
Cyclohexane	U		0.63	1.0	µg/L	1	11/12/2019 20:47
Dibromochloromethane	U		0.40	5.0	µg/L	1	11/12/2019 20:47
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	11/12/2019 20:47
Ethylbenzene	U		0.34	1.0	µg/L	1	11/12/2019 20:47
Isopropylbenzene	U		0.35	5.0	µg/L	1	11/12/2019 20:47
Methyl acetate	U		0.59	10	µg/L	1	11/12/2019 20:47
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	11/12/2019 20:47
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/12/2019 20:47
Methylene chloride	U		0.86	5.0	µg/L	1	11/12/2019 20:47
Styrene	U		0.33	1.0	µg/L	1	11/12/2019 20:47
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/12/2019 20:47
Toluene	U		0.45	1.0	µg/L	1	11/12/2019 20:47
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/12/2019 20:47
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/12/2019 20:47
Trichloroethene	U		0.43	1.0	µg/L	1	11/12/2019 20:47
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/12/2019 20:47
Vinyl chloride	U		0.53	1.0	µg/L	1	11/12/2019 20:47
Xylenes, Total	U		0.81	3.0	µg/L	1	11/12/2019 20:47
Surr: 1,2-Dichloroethane-d4	*106*			*75-120*	*%REC*	1	11/12/2019 20:47
Surr: 4-Bromofluorobenzene	*98.4*			*80-110*	*%REC*	1	11/12/2019 20:47
Surr: Dibromofluoromethane	*98.3*			*85-115*	*%REC*	1	11/12/2019 20:47
Surr: Toluene-d8	*96.4*			*85-110*	*%REC*	1	11/12/2019 20:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-SCD-019
Collection Date: 10/29/2019 04:36 PM

Work Order: 19110348
Lab ID: 19110348-19
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	**0.010**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 15:46
Iron	**3.0**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:46
Manganese	**0.078**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:46
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:48
Iron	**3.0**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 15:48
Manganese	**0.078**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 15:48

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-102919-KRM-020
Collection Date: 10/29/2019 05:08 PM

Work Order: 19110348
Lab ID: 19110348-20
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:50
Iron	U		0.050	0.080	mg/L	1	11/13/2019 15:50
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 15:50
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145520							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 15:51
Iron	U		0.050	0.080	mg/L	1	11/13/2019 15:51
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 15:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-SCD-021
Collection Date: 10/30/2019 09:04 AM

Work Order: 19110348
Lab ID: 19110348-21
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.011**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:31
Iron	**8.7**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:31
Manganese	**0.33**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:31
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 16:37
Iron	**8.5**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:37
Manganese	**0.33**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-KRM-022
Collection Date: 10/30/2019 09:25 AM

Work Order: 19110348
Lab ID: 19110348-22
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.078**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:38
Iron	**3.7**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:38
Manganese	**0.37**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:38
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 16:40
Iron	**3.3**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:40
Manganese	**0.36**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-KRM-023
Collection Date: 10/30/2019 11:05 AM

Work Order: 19110348
Lab ID: 19110348-23
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.54**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:42
Iron	**3.6**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:42
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:42
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 16:47
Iron	**2.0**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:47
Manganese	**0.18**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:47

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-KRM-024
Collection Date: 10/30/2019 12:45 PM

Work Order: 19110348
Lab ID: 19110348-24
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.69**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:49
Iron	**4.9**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:49
Manganese	**0.51**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:49
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.014**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:51
Iron	**3.3**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:51
Manganese	**0.50**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-SCD-025
Collection Date: 10/30/2019 01:11 PM

Work Order: 19110348
Lab ID: 19110348-25
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.063**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:52
Iron	**18**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:52
Manganese	**0.46**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:52
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.0087**	J	**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:54
Iron	**18**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:54
Manganese	**0.46**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:54

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-KRM-026
Collection Date: 10/30/2019 02:15 PM

Work Order: 19110348
Lab ID: 19110348-26
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.25**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 16:56
Iron	**4.9**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:56
Manganese	**0.21**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:56
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 16:58
Iron	**4.5**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 16:58
Manganese	**0.21**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 16:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-SCD-027
Collection Date: 10/30/2019 02:34 PM

Work Order: 19110348
Lab ID: 19110348-27
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**2.0**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:00
Iron	**24**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:00
Manganese	**0.36**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:00
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.012**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:02
Iron	**18**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:02
Manganese	**0.28**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:02

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103019-KRM-028
Collection Date: 10/30/2019 02:25 PM

Work Order: 19110348
Lab ID: 19110348-28
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:04
Iron	U		0.050	0.080	mg/L	1	11/13/2019 17:04
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 17:04
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.0095**	J	**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:08
Iron	U		0.050	0.080	mg/L	1	11/13/2019 17:08
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 17:08

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103119-SCD-029
Collection Date: 10/31/2019 09:21 AM

Work Order: 19110348
Lab ID: 19110348-29
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.040**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:10
Iron	**3.1**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:10
Manganese	**0.17**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:10
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.019**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:12
Iron	**2.8**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:12
Manganese	**0.17**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:12

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103119-KRM-030
Collection Date: 10/31/2019 10:00 AM

Work Order: 19110348
Lab ID: 19110348-30
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.31**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:13
Iron	**1.1**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:13
Manganese	**0.064**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:13
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145527							
Aluminum	**0.014**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:15
Iron	**0.63**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:15
Manganese	**0.059**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:15

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103119-KRM-031
Collection Date: 10/31/2019 02:55 PM

Work Order: 19110348
Lab ID: 19110348-31
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.45**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:22
Iron	**3.2**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:22
Manganese	**0.27**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:22
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:30
Iron	**0.67**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:30
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:30

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103119-SCD-032
Collection Date: 10/31/2019 02:36 PM

Work Order: 19110348
Lab ID: 19110348-32
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.017**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:32
Iron	**6.9**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:32
Manganese	**0.22**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:32
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:34
Iron	**6.2**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:34
Manganese	**0.23**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:34

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-103119-KRM-033
Collection Date: 10/31/2019 03:25 PM

Work Order: 19110348
Lab ID: 19110348-33
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:36
Iron	U		0.050	0.080	mg/L	1	11/13/2019 17:36
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 17:36
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:37
Iron	U		0.050	0.080	mg/L	1	11/13/2019 17:37
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 17:37

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-KRM-034
Collection Date: 11/1/2019 09:15 AM

Work Order: 19110348
Lab ID: 19110348-34
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.42**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:39
Iron	**2.1**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:39
BatchID: 145536							
Manganese	**3.3**		**0.025**	**0.050**	**mg/L**	10	11/14/2019 13:32
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:40
Iron	U		0.050	0.080	mg/L	1	11/13/2019 17:40
Manganese	**0.21**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:40

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-SCD-035
Collection Date: 11/1/2019 09:06 AM

Work Order: 19110348
Lab ID: 19110348-35
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.010**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:42
Iron	**7.0**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:42
Manganese	**0.76**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:42
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:44
Iron	**2.1**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:44
Manganese	**0.77**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:44
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **WH**
BatchID: R275185							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/13/2019 16:38
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/13/2019 16:38
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/13/2019 16:38
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/13/2019 16:38
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/13/2019 16:38
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/13/2019 16:38
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	11/13/2019 16:38
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/13/2019 16:38
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/13/2019 16:38
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/13/2019 16:38
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/13/2019 16:38
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/13/2019 16:38
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/13/2019 16:38
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/13/2019 16:38
2-Butanone	U		0.52	25	µg/L	1	11/13/2019 16:38
2-Hexanone	U		0.59	50	µg/L	1	11/13/2019 16:38
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	11/13/2019 16:38
Acetone	**9.8**	J	**6.2**	**50**	**µg/L**	1	11/13/2019 16:38
Benzene	U		0.46	1.0	µg/L	1	11/13/2019 16:38
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/13/2019 16:38
Bromoform	U		0.56	1.0	µg/L	1	11/13/2019 16:38
Bromomethane	U		0.90	5.0	µg/L	1	11/13/2019 16:38
Carbon disulfide	U		0.49	5.0	µg/L	1	11/13/2019 16:38
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/13/2019 16:38
Chlorobenzene	U		0.40	1.0	µg/L	1	11/13/2019 16:38
Chloroethane	U		0.68	5.0	µg/L	1	11/13/2019 16:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-SCD-035
Collection Date: 11/1/2019 09:06 AM

Work Order: 19110348
Lab ID: 19110348-35
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	11/13/2019 16:38
Chloromethane	**0.94**	J	**0.83**	**5.0**	**µg/L**	1	11/13/2019 16:38
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/13/2019 16:38
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/13/2019 16:38
Cyclohexane	U		0.63	1.0	µg/L	1	11/13/2019 16:38
Dibromochloromethane	U		0.40	5.0	µg/L	1	11/13/2019 16:38
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	11/13/2019 16:38
Ethylbenzene	U		0.34	1.0	µg/L	1	11/13/2019 16:38
Isopropylbenzene	U		0.35	5.0	µg/L	1	11/13/2019 16:38
Methyl acetate	U		0.59	10	µg/L	1	11/13/2019 16:38
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	11/13/2019 16:38
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/13/2019 16:38
Methylene chloride	U		0.86	5.0	µg/L	1	11/13/2019 16:38
Styrene	U		0.33	1.0	µg/L	1	11/13/2019 16:38
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/13/2019 16:38
Toluene	U		0.45	1.0	µg/L	1	11/13/2019 16:38
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/13/2019 16:38
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/13/2019 16:38
Trichloroethene	U		0.43	1.0	µg/L	1	11/13/2019 16:38
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/13/2019 16:38
Vinyl chloride	U		0.53	1.0	µg/L	1	11/13/2019 16:38
Xylenes, Total	U		0.81	3.0	µg/L	1	11/13/2019 16:38
Surr: 1,2-Dichloroethane-d4	*106*			*75-120*	*%REC*	1	11/13/2019 16:38
Surr: 4-Bromofluorobenzene	*98.1*			*80-110*	*%REC*	1	11/13/2019 16:38
Surr: Dibromofluoromethane	*99.8*			*85-115*	*%REC*	1	11/13/2019 16:38
Surr: Toluene-d8	*97.3*			*85-110*	*%REC*	1	11/13/2019 16:38

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-KRM-036
Collection Date: 11/1/2019 10:55 AM

Work Order: 19110348
Lab ID: 19110348-36
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.031**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:49
Iron	**10**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:49
Manganese	**0.067**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:49
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:51
Iron	**8.6**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:51
Manganese	**0.076**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:51

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-SCD-037
Collection Date: 11/1/2019 10:36 AM

Work Order: 19110348
Lab ID: 19110348-37
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.013**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:52
Iron	**11**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:52
Manganese	**0.077**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:52
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:54
Iron	**10**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:54
Manganese	**0.077**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:54
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **WH**
BatchID: R275185							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/13/2019 16:53
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/13/2019 16:53
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/13/2019 16:53
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/13/2019 16:53
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/13/2019 16:53
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/13/2019 16:53
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	11/13/2019 16:53
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/13/2019 16:53
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/13/2019 16:53
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/13/2019 16:53
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/13/2019 16:53
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/13/2019 16:53
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/13/2019 16:53
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/13/2019 16:53
2-Butanone	U		0.52	25	µg/L	1	11/13/2019 16:53
2-Hexanone	U		0.59	50	µg/L	1	11/13/2019 16:53
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	11/13/2019 16:53
Acetone	U		6.2	50	µg/L	1	11/13/2019 16:53
Benzene	**2.1**		**0.46**	**1.0**	**µg/L**	1	11/13/2019 16:53
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/13/2019 16:53
Bromoform	U		0.56	1.0	µg/L	1	11/13/2019 16:53
Bromomethane	U		0.90	5.0	µg/L	1	11/13/2019 16:53
Carbon disulfide	U		0.49	5.0	µg/L	1	11/13/2019 16:53
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/13/2019 16:53
Chlorobenzene	**58**		**0.40**	**1.0**	**µg/L**	1	11/13/2019 16:53
Chloroethane	U		0.68	5.0	µg/L	1	11/13/2019 16:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-SCD-037
Collection Date: 11/1/2019 10:36 AM

Work Order: 19110348
Lab ID: 19110348-37
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	11/13/2019 16:53
Chloromethane	U		0.83	5.0	µg/L	1	11/13/2019 16:53
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/13/2019 16:53
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/13/2019 16:53
Cyclohexane	U		0.63	1.0	µg/L	1	11/13/2019 16:53
Dibromochloromethane	U		0.40	5.0	µg/L	1	11/13/2019 16:53
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	11/13/2019 16:53
Ethylbenzene	U		0.34	1.0	µg/L	1	11/13/2019 16:53
Isopropylbenzene	U		0.35	5.0	µg/L	1	11/13/2019 16:53
Methyl acetate	U		0.59	10	µg/L	1	11/13/2019 16:53
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	11/13/2019 16:53
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/13/2019 16:53
Methylene chloride	U		0.86	5.0	µg/L	1	11/13/2019 16:53
Styrene	U		0.33	1.0	µg/L	1	11/13/2019 16:53
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/13/2019 16:53
Toluene	U		0.45	1.0	µg/L	1	11/13/2019 16:53
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/13/2019 16:53
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/13/2019 16:53
Trichloroethene	U		0.43	1.0	µg/L	1	11/13/2019 16:53
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/13/2019 16:53
Vinyl chloride	U		0.53	1.0	µg/L	1	11/13/2019 16:53
Xylenes, Total	U		0.81	3.0	µg/L	1	11/13/2019 16:53
Surr: 1,2-Dichloroethane-d4	*104*			*75-120*	*%REC*	1	11/13/2019 16:53
Surr: 4-Bromofluorobenzene	*96.4*			*80-110*	*%REC*	1	11/13/2019 16:53
Surr: Dibromofluoromethane	*100*			*85-115*	*%REC*	1	11/13/2019 16:53
Surr: Toluene-d8	*99.3*			*85-110*	*%REC*	1	11/13/2019 16:53

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-KRM-038
Collection Date: 11/1/2019 10:55 AM

Work Order: 19110348
Lab ID: 19110348-38
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.021**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 17:56
Iron	**10**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:56
Manganese	**0.075**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:56
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 17:58
Iron	**8.5**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 17:58
Manganese	**0.082**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 17:58

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-SCD-039
Collection Date: 11/1/2019 12:11 PM

Work Order: 19110348
Lab ID: 19110348-39
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 18:00
Iron	**0.093**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:00
Manganese	**0.16**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:00
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 18:01
Iron	**0.052**	J	**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:01
Manganese	**0.11**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:01

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-KRM-040
Collection Date: 11/1/2019 12:35 PM

Work Order: 19110348
Lab ID: 19110348-40
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.44**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 18:03
Iron	**0.65**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:03
Manganese	**0.026**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:03
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145536							
Aluminum	**0.012**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 18:05
Iron	U		0.050	0.080	mg/L	1	11/13/2019 18:05
Manganese	**0.022**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:05

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-SCD-041
Collection Date: 11/1/2019 02:50 PM

Work Order: 19110348
Lab ID: 19110348-41
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145541							
Aluminum	**0.023**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 18:14
Iron	**1.2**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:14
Manganese	**0.20**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:14
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145541							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 18:20
Iron	**0.89**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:20
Manganese	**0.16**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110119-KRM-042
Collection Date: 11/1/2019 03:20 PM

Work Order: 19110348
Lab ID: 19110348-42
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145541							
Aluminum	**0.021**		**0.0080**	**0.010**	**mg/L**	1	11/13/2019 18:21
Iron	**0.079**	J	**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:21
Manganese	**0.0082**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:21
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145541							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 18:23
Iron	U		0.050	0.080	mg/L	1	11/13/2019 18:23
Manganese	U		0.0025	0.0050	mg/L	1	11/13/2019 18:23

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330025-110419-KRM-043
Collection Date: 11/4/2019 11:27 AM

Work Order: 19110348
Lab ID: 19110348-43
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145541							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 18:24
Iron	**0.28**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:24
Manganese	**0.065**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:24
METALS BY ICP-MS (DISSOLVED)			**SW6020A**		Prep: SW3015A / 11/13/19		Analyst: **STP**
BatchID: 145541							
Aluminum	U		0.0080	0.010	mg/L	1	11/13/2019 18:29
Iron	**0.15**		**0.050**	**0.080**	**mg/L**	1	11/13/2019 18:29
Manganese	**0.056**		**0.0025**	**0.0050**	**mg/L**	1	11/13/2019 18:29

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: Trip Blank
Collection Date: 11/4/2019

Work Order: 19110348
Lab ID: 19110348-44
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **JNS**
BatchID: R275144							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/12/2019 18:09
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/12/2019 18:09
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/12/2019 18:09
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/12/2019 18:09
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/12/2019 18:09
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/12/2019 18:09
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	11/12/2019 18:09
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/12/2019 18:09
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/12/2019 18:09
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/12/2019 18:09
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/12/2019 18:09
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/12/2019 18:09
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/12/2019 18:09
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/12/2019 18:09
2-Butanone	U		0.52	25	µg/L	1	11/12/2019 18:09
2-Hexanone	U		0.59	50	µg/L	1	11/12/2019 18:09
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	11/12/2019 18:09
Acetone	U		6.2	50	µg/L	1	11/12/2019 18:09
Benzene	U		0.46	1.0	µg/L	1	11/12/2019 18:09
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/12/2019 18:09
Bromoform	U		0.56	1.0	µg/L	1	11/12/2019 18:09
Bromomethane	U		0.90	5.0	µg/L	1	11/12/2019 18:09
Carbon disulfide	U		0.49	5.0	µg/L	1	11/12/2019 18:09
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/12/2019 18:09
Chlorobenzene	U		0.40	1.0	µg/L	1	11/12/2019 18:09
Chloroethane	U		0.68	5.0	µg/L	1	11/12/2019 18:09
Chloroform	**0.96**	J	**0.46**	**1.0**	**µg/L**	1	11/12/2019 18:09
Chloromethane	U		0.83	5.0	µg/L	1	11/12/2019 18:09
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/12/2019 18:09
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/12/2019 18:09
Cyclohexane	U		0.63	1.0	µg/L	1	11/12/2019 18:09
Dibromochloromethane	U		0.40	5.0	µg/L	1	11/12/2019 18:09
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	11/12/2019 18:09
Ethylbenzene	U		0.34	1.0	µg/L	1	11/12/2019 18:09
Isopropylbenzene	U		0.35	5.0	µg/L	1	11/12/2019 18:09
Methyl acetate	U		0.59	10	µg/L	1	11/12/2019 18:09
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	11/12/2019 18:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: Trip Blank
Collection Date: 11/4/2019

Work Order: 19110348
Lab ID: 19110348-44
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/12/2019 18:09
Methylene chloride	U		0.86	5.0	µg/L	1	11/12/2019 18:09
Styrene	U		0.33	1.0	µg/L	1	11/12/2019 18:09
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/12/2019 18:09
Toluene	U		0.45	1.0	µg/L	1	11/12/2019 18:09
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/12/2019 18:09
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/12/2019 18:09
Trichloroethene	U		0.43	1.0	µg/L	1	11/12/2019 18:09
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/12/2019 18:09
Vinyl chloride	U		0.53	1.0	µg/L	1	11/12/2019 18:09
Xylenes, Total	U		0.81	3.0	µg/L	1	11/12/2019 18:09
Surr: 1,2-Dichloroethane-d4	*105*			*75-120*	*%REC*	1	11/12/2019 18:09
Surr: 4-Bromofluorobenzene	*97.4*			*80-110*	*%REC*	1	11/12/2019 18:09
Surr: Dibromofluoromethane	*95.8*			*85-115*	*%REC*	1	11/12/2019 18:09
Surr: Toluene-d8	*97.3*			*85-110*	*%REC*	1	11/12/2019 18:09

Note: See Qualifiers page for a list of qualifiers and their definitions.

Revision: 1

Batch ID: **145519** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-145519-145519** Units: **mg/L** Analysis Date: **11/13/2019 02:12 P**

Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053679** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-145519-145519** Units: **mg/L** Analysis Date: **11/13/2019 02:14 P**

Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053680** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1013	0.010	0.1	0	101	80-120	0			
Iron	9.7	0.080	10	0	97	80-120	0			
Manganese	0.09103	0.0050	0.1	0	91	80-120	0			

MS Sample ID: **19110348-01AMS** Units: **mg/L** Analysis Date: **11/13/2019 02:17 P**

Client ID: **W-R2330025-102819-KRM-001** Run ID: **ICPMS3_191113A** SeqNo: **6053682** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1017	0.010	0.1	0.008524	93.2	75-125	0			
Iron	9.556	0.080	10	0.03368	95.2	75-125	0			
Manganese	0.09265	0.0050	0.1	0.004086	88.6	75-125	0			

MSD Sample ID: **19110348-01AMSD** Units: **mg/L** Analysis Date: **11/13/2019 02:19 P**

Client ID: **W-R2330025-102819-KRM-001** Run ID: **ICPMS3_191113A** SeqNo: **6053683** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1065	0.010	0.1	0.008524	98	75-125	0.1017	4.62	20	
Iron	9.782	0.080	10	0.03368	97.5	75-125	9.556	2.34	20	
Manganese	0.095	0.0050	0.1	0.004086	90.9	75-125	0.09265	2.5	20	

The following samples were analyzed in this batch:

19110348-01A	19110348-01B	19110348-02A
19110348-02B	19110348-03A	19110348-03B
19110348-04A	19110348-04B	19110348-05A
19110348-05B	19110348-06A	19110348-06B
19110348-07A	19110348-07B	19110348-08A
19110348-08B	19110348-09A	19110348-09B
19110348-10A	19110348-10B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **145520** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-145520-145520** Units: **mg/L** Analysis Date: **11/13/2019 03:03 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053708** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-145520-145520** Units: **mg/L** Analysis Date: **11/13/2019 03:04 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053709** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09323	0.010	0.1	0	93.2	80-120	0			
Iron	9.47	0.080	10	0	94.7	80-120	0			
Manganese	0.09117	0.0050	0.1	0	91.2	80-120	0			

MS Sample ID: **19110348-11AMS** Units: **mg/L** Analysis Date: **11/13/2019 03:08 P**
Client ID: **W-R2330025-102919-SCD-011** Run ID: **ICPMS3_191113A** SeqNo: **6053711** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1538	0.010	0.1	0.02064	133	75-125	0			S
Iron	28.31	0.080	10	19.5	88.1	75-125	0			
Manganese	0.606	0.0050	0.1	0.5349	71.1	75-125	0			SO

MSD Sample ID: **19110348-11AMSD** Units: **mg/L** Analysis Date: **11/13/2019 03:13 P**
Client ID: **W-R2330025-102919-SCD-011** Run ID: **ICPMS3_191113A** SeqNo: **6053714** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1194	0.010	0.1	0.02064	98.8	75-125	0.1538	25.2	20	R
Iron	28.06	0.080	10	19.5	85.6	75-125	28.31	0.897	20	
Manganese	0.6093	0.0050	0.1	0.5349	74.4	75-125	0.606	0.543	20	SO

The following samples were analyzed in this batch:

19110348-11A	19110348-11B	19110348-12A
19110348-12B	19110348-13A	19110348-13B
19110348-14A	19110348-14B	19110348-15A
19110348-15B	19110348-16A	19110348-16B
19110348-17A	19110348-17B	19110348-18A
19110348-18B	19110348-19A	19110348-19B
19110348-20A	19110348-20B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **145527** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-145527-145527** Units: **mg/L** Analysis Date: **11/13/2019 04:28 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053882** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-145527-145527** Units: **mg/L** Analysis Date: **11/13/2019 04:29 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053883** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.0955	0.010	0.1	0	95.5	80-120	0			
Iron	9.835	0.080	10	0	98.4	80-120	0			
Manganese	0.09534	0.0050	0.1	0	95.3	80-120	0			

MS Sample ID: **19110348-21AMS** Units: **mg/L** Analysis Date: **11/13/2019 04:33 P**
Client ID: **W-R2330025-103019-SCD-021** Run ID: **ICPMS3_191113A** SeqNo: **6053885** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1087	0.010	0.1	0.01051	98.2	75-125	0			
Iron	17.91	0.080	10	8.736	91.7	75-125	0			
Manganese	0.4131	0.0050	0.1	0.3335	79.6	75-125	0			

MSD Sample ID: **19110348-21AMSD** Units: **mg/L** Analysis Date: **11/13/2019 04:35 P**
Client ID: **W-R2330025-103019-SCD-021** Run ID: **ICPMS3_191113A** SeqNo: **6053886** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1052	0.010	0.1	0.01051	94.6	75-125	0.1087	3.35	20	
Iron	17.51	0.080	10	8.736	87.7	75-125	17.91	2.25	20	
Manganese	0.4093	0.0050	0.1	0.3335	75.8	75-125	0.4131	0.922	20	

The following samples were analyzed in this batch:

19110348-21A	19110348-21B	19110348-22A
19110348-22B	19110348-23A	19110348-23B
19110348-24A	19110348-24B	19110348-25A
19110348-25B	19110348-26A	19110348-26B
19110348-27A	19110348-27B	19110348-28A
19110348-28B	19110348-29A	19110348-29B
19110348-30A	19110348-30B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **145536** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-145536-145536** Units: **mg/L** Analysis Date: **11/13/2019 05:18 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053911** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-145536-145536** Units: **mg/L** Analysis Date: **11/13/2019 05:20 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053912** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1025	0.010	0.1	0	102	80-120	0			
Iron	9.802	0.080	10	0	98	80-120	0			
Manganese	0.09764	0.0050	0.1	0	97.6	80-120	0			

MS Sample ID: **19110348-31AMS** Units: **mg/L** Analysis Date: **11/13/2019 05:23 P**
Client ID: **W-R2330025-103119-KRM-031** Run ID: **ICPMS3_191113A** SeqNo: **6053914** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.7251	0.010	0.1	0.4456	279	75-125	0			SO
Iron	12.29	0.080	10	3.186	91.1	75-125	0			
Manganese	0.3541	0.0050	0.1	0.2743	79.8	75-125	0			

MSD Sample ID: **19110348-31AMSD** Units: **mg/L** Analysis Date: **11/13/2019 05:28 P**
Client ID: **W-R2330025-103119-KRM-031** Run ID: **ICPMS3_191113A** SeqNo: **6053917** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.75	0.010	0.1	0.4456	304	75-125	0.7251	3.37	20	SO
Iron	12.24	0.080	10	3.186	90.6	75-125	12.29	0.417	20	
Manganese	0.3529	0.0050	0.1	0.2743	78.6	75-125	0.3541	0.362	20	

The following samples were analyzed in this batch:

19110348-31A	19110348-31B	19110348-32A
19110348-32B	19110348-33A	19110348-33B
19110348-34A	19110348-34B	19110348-35A
19110348-35B	19110348-36A	19110348-36B
19110348-37A	19110348-37B	19110348-38A
19110348-38B	19110348-39A	19110348-39B
19110348-40A	19110348-40B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **145541** Instrument ID **ICPMS3** Method: **SW6020A**

MBLK Sample ID: **MBLK-145541-145541** Units: **mg/L** Analysis Date: **11/13/2019 06:11 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053942** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	U	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-145541-145541** Units: **mg/L** Analysis Date: **11/13/2019 06:13 P**
Client ID: Run ID: **ICPMS3_191113A** SeqNo: **6053943** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09584	0.010	0.1	0	95.8	80-120	0			
Iron	9.511	0.080	10	0	95.1	80-120	0			
Manganese	0.09276	0.0050	0.1	0	92.8	80-120	0			

MS Sample ID: **19110348-41AMS** Units: **mg/L** Analysis Date: **11/13/2019 06:16 P**
Client ID: **W-R2330025-110119-SCD-041** Run ID: **ICPMS3_191113A** SeqNo: **6053945** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1136	0.010	0.1	0.02294	90.7	75-125	0			
Iron	10.37	0.080	10	1.154	92.2	75-125	0			
Manganese	0.2871	0.0050	0.1	0.2043	82.8	75-125	0			

MSD Sample ID: **19110348-41AMSD** Units: **mg/L** Analysis Date: **11/13/2019 06:18 P**
Client ID: **W-R2330025-110119-SCD-041** Run ID: **ICPMS3_191113A** SeqNo: **6053946** Prep Date: **11/13/2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1155	0.010	0.1	0.02294	92.6	75-125	0.1136	1.64	20	
Iron	10.61	0.080	10	1.154	94.5	75-125	10.37	2.26	20	
Manganese	0.2873	0.0050	0.1	0.2043	83	75-125	0.2871	0.0735	20	

The following samples were analyzed in this batch:

19110348-41A	19110348-41B	19110348-42A
19110348-42B	19110348-43A	19110348-43B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC BATCH REPORT

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

MBLK Sample ID: **VBLKW2-191112-R275144A** Units: **µg/L** Analysis Date: **11/12/2019 05:20 P**

Client ID: Run ID: **VMS11_191112A** SeqNo: **6051264** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	2.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC BATCH REPORT

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

trans-1,2-Dichloroethene	U	1.0						
trans-1,3-Dichloropropene	0.43	1.0						J
Trichloroethene	U	1.0						
Trichlorofluoromethane	U	1.0						
Vinyl chloride	U	1.0						
Xylenes, Total	U	3.0						
Surr: 1,2-Dichloroethane-d4	*20.93*	0	*20*	0	*105*	*75-120*	0	
Surr: 4-Bromofluorobenzene	*19.54*	0	*20*	0	*97.7*	*80-110*	0	
Surr: Dibromofluoromethane	*19.29*	0	*20*	0	*96.4*	*85-115*	0	
Surr: Toluene-d8	*19.42*	0	*20*	0	*97.1*	*85-110*	0	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

LCS Sample ID: **VLCSW1-191112-R275144A** Units: **µg/L** Analysis Date: **11/12/2019 04:13 P**
Client ID: Run ID: **VMS11_191112A** SeqNo: **6051263** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.69	1.0	20	0	103	75-130	0			
1,1,2,2-Tetrachloroethane	21.18	1.0	20	0	106	75-130	0			
1,1,2-Trichloroethane	20.67	1.0	20	0	103	75-125	0			
1,1-Dichloroethane	21.48	1.0	20	0	107	68-142	0			
1,1-Dichloroethene	23.04	1.0	20	0	115	70-145	0			
1,2,4-Trichlorobenzene	21.71	1.0	20	0	109	70-135	0			
1,2-Dibromo-3-chloropropane	20.05	1.0	20	0	100	60-130	0			
1,2-Dibromoethane	22.14	1.0	20	0	111	67-155	0			
1,2-Dichlorobenzene	20.01	1.0	20	0	100	70-130	0			
1,2-Dichloroethane	20.96	1.0	20	0	105	78-125	0			
1,2-Dichloropropane	21.1	1.0	20	0	106	75-125	0			
1,3-Dichlorobenzene	20.19	1.0	20	0	101	75-130	0			
1,4-Dichlorobenzene	19.78	1.0	20	0	98.9	75-130	0			
2-Butanone	22.39	5.0	20	0	112	55-150	0			
2-Hexanone	20.86	5.0	20	0	104	60-135	0			
4-Methyl-2-pentanone	27.53	1.0	20	0	138	77-178	0			
Acetone	24.43	10	20	0	122	60-160	0			
Benzene	20.97	1.0	20	0	105	70-130	0			
Bromodichloromethane	21.47	1.0	20	0	107	75-125	0			
Bromoform	18.66	1.0	20	0	93.3	60-125	0			
Bromomethane	17.91	1.0	20	0	89.6	30-185	0			
Carbon disulfide	25.87	1.0	20	0	129	60-165	0			
Carbon tetrachloride	20.34	1.0	20	0	102	65-140	0			
Chlorobenzene	19.63	1.0	20	0	98.2	80-120	0			
Chloroethane	25.05	1.0	20	0	125	31-172	0			
Chloroform	21.71	1.0	20	0	109	66-135	0			
Chloromethane	18.67	1.0	20	0	93.4	46-148	0			
cis-1,2-Dichloroethene	22.4	1.0	20	0	112	75-134	0			
cis-1,3-Dichloropropene	21.14	1.0	20	0	106	70-130	0			
Dibromochloromethane	17.69	1.0	20	0	88.4	60-115	0			
Dichlorodifluoromethane	22.45	1.0	20	0	112	20-120	0			
Ethylbenzene	20.41	1.0	20	0	102	76-123	0			
Isopropylbenzene	20.73	1.0	20	0	104	80-127	0			
Methyl tert-butyl ether	24.36	1.0	20	0	122	68-129	0			
Methylene chloride	22.2	5.0	20	0	111	72-125	0			
Styrene	21.37	1.0	20	0	107	83-137	0			
Tetrachloroethene	20.8	1.0	20	0	104	68-166	0			
Toluene	19.92	1.0	20	0	99.6	76-125	0			
trans-1,2-Dichloroethene	22.33	1.0	20	0	112	80-140	0			
trans-1,3-Dichloropropene	18.36	1.0	20	0	91.8	56-132	0			
Trichloroethene	20.77	1.0	20	0	104	77-125	0			
Trichlorofluoromethane	17.48	1.0	20	0	87.4	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

Vinyl chloride	17.86	1.0	20	0	89.3	50-136	0
Xylenes, Total	62.55	3.0	60	0	104	76-127	0
Surr: 1,2-Dichloroethane-d4	*20.74*	0	*20*	0	*104*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.31*	0	*20*	0	*102*	*80-110*	0
Surr: Dibromofluoromethane	*20.58*	0	*20*	0	*103*	*85-115*	0
Surr: Toluene-d8	*19.65*	0	*20*	0	*98.2*	*85-110*	0

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

MS Sample ID: **19110022-01A MS** Units: **µg/L** Analysis Date: **11/13/2019 01:39 A**

Client ID: Run ID: **VMS11_191112A** SeqNo: **6051280** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1905	100	2000	0	95.2	75-130	0			
1,1,2,2-Tetrachloroethane	1655	100	2000	0	82.8	75-130	0			
1,1,2-Trichloroethane	1988	100	2000	0	99.4	75-125	0			
1,1-Dichloroethane	2032	100	2000	0	102	68-142	0			
1,1-Dichloroethene	2235	100	2000	0	112	70-145	0			
1,2,4-Trichlorobenzene	1705	100	2000	0	85.2	70-135	0			
1,2-Dibromo-3-chloropropane	1866	100	2000	0	93.3	60-130	0			
1,2-Dibromoethane	2079	100	2000	0	104	67-155	0			
1,2-Dichlorobenzene	1851	100	2000	0	92.6	70-130	0			
1,2-Dichloroethane	2908	100	2000	972	96.8	78-125	0			
1,2-Dichloropropane	1979	100	2000	40	97	75-125	0			
1,3-Dichlorobenzene	1837	100	2000	0	91.8	75-130	0			
1,4-Dichlorobenzene	1772	100	2000	0	88.6	75-130	0			
2-Butanone	3887	500	2000	95	190	55-150	0			S
2-Hexanone	3155	500	2000	0	158	60-135	0			S
4-Methyl-2-pentanone	2501	100	2000	0	125	77-178	0			
Acetone	5240	1,000	2000	1667	179	60-160	0			S
Benzene	1963	100	2000	53	95.5	70-130	0			
Bromodichloromethane	1945	100	2000	0	97.2	75-125	0			
Bromoform	1586	100	2000	0	79.3	60-125	0			
Bromomethane	455	100	2000	0	22.8	30-185	0			S
Carbon disulfide	2590	100	2000	0	130	60-165	0			
Carbon tetrachloride	2312	100	2000	0	116	65-140	0			
Chlorobenzene	1845	100	2000	0	92.2	80-120	0			
Chloroethane	1941	100	2000	0	97	31-172	0			
Chloroform	2074	100	2000	25	102	66-135	0			
Chloromethane	2578	100	2000	0	129	46-148	0			
cis-1,2-Dichloroethene	3284	100	2000	1261	101	75-134	0			
cis-1,3-Dichloropropene	1755	100	2000	0	87.8	70-130	0			
Dibromochloromethane	1574	100	2000	0	78.7	60-115	0			
Dichlorodifluoromethane	2416	100	2000	0	121	20-120	0			S
Ethylbenzene	1897	100	2000	0	94.8	76-123	0			
Isopropylbenzene	1927	100	2000	0	96.4	80-127	0			
Methyl tert-butyl ether	2370	100	2000	0	118	68-129	0			
Methylene chloride	2052	500	2000	0	103	72-125	0			
Styrene	1938	100	2000	0	96.9	83-137	0			
Tetrachloroethene	3771	100	2000	0	189	68-166	0			S
Toluene	1844	100	2000	0	92.2	76-125	0			
trans-1,2-Dichloroethene	2190	100	2000	63	106	80-140	0			
trans-1,3-Dichloropropene	1554	100	2000	0	77.7	56-132	0			
Trichloroethene	4583	100	2000	2142	122	77-125	0			
Trichlorofluoromethane	1749	100	2000	0	87.4	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC BATCH REPORT

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

Vinyl chloride	1835	100	2000	122	85.6	50-136	0
Xylenes, Total	5821	300	6000	0	97	76-127	0
Surr: 1,2-Dichloroethane-d4	*2051*	0	*2000*	0	*103*	*75-120*	0
Surr: 4-Bromofluorobenzene	*2030*	0	*2000*	0	*102*	*80-110*	0
Surr: Dibromofluoromethane	*2094*	0	*2000*	0	*105*	*85-115*	0
Surr: Toluene-d8	*1976*	0	*2000*	0	*98.8*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

MSD Sample ID: **19110022-01A MSD** Units: **µg/L** Analysis Date: **11/13/2019 02:02 A**

Client ID: Run ID: **VMS11_191112A** SeqNo: **6051281** Prep Date: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2377	100	2000	0	119	75-130	1905	22	30	
1,1,2,2-Tetrachloroethane	1748	100	2000	0	87.4	75-130	1655	5.47	30	
1,1,2-Trichloroethane	2251	100	2000	0	113	75-125	1988	12.4	30	
1,1-Dichloroethane	2389	100	2000	0	119	68-142	2032	16.2	30	
1,1-Dichloroethene	2706	100	2000	0	135	70-145	2235	19.1	30	
1,2,4-Trichlorobenzene	2043	100	2000	0	102	70-135	1705	18	30	
1,2-Dibromo-3-chloropropane	2035	100	2000	0	102	60-130	1866	8.66	30	
1,2-Dibromoethane	2359	100	2000	0	118	67-155	2079	12.6	30	
1,2-Dichlorobenzene	2155	100	2000	0	108	70-130	1851	15.2	30	
1,2-Dichloroethane	3230	100	2000	972	113	78-125	2908	10.5	30	
1,2-Dichloropropane	2323	100	2000	40	114	75-125	1979	16	30	
1,3-Dichlorobenzene	2176	100	2000	0	109	75-130	1837	16.9	30	
1,4-Dichlorobenzene	2165	100	2000	0	108	75-130	1772	20	30	
2-Butanone	4047	500	2000	95	198	55-150	3887	4.03	30	S
2-Hexanone	3420	500	2000	0	171	60-135	3155	8.06	30	S
4-Methyl-2-pentanone	2634	100	2000	0	132	77-178	2501	5.18	30	
Acetone	5710	1,000	2000	1667	202	60-160	5240	8.58	30	S
Benzene	2376	100	2000	53	116	70-130	1963	19	30	
Bromodichloromethane	2259	100	2000	0	113	75-125	1945	14.9	30	
Bromoform	1820	100	2000	0	91	60-125	1586	13.7	30	
Bromomethane	699	100	2000	0	35	30-185	455	42.3	30	R
Carbon disulfide	3098	100	2000	0	155	60-165	2590	17.9	30	
Carbon tetrachloride	2646	100	2000	0	132	65-140	2312	13.5	30	
Chlorobenzene	2195	100	2000	0	110	80-120	1845	17.3	30	
Chloroethane	2388	100	2000	0	119	31-172	1941	20.7	30	
Chloroform	2418	100	2000	25	120	66-135	2074	15.3	30	
Chloromethane	3100	100	2000	0	155	46-148	2578	18.4	30	S
cis-1,2-Dichloroethene	3644	100	2000	1261	119	75-134	3284	10.4	30	
cis-1,3-Dichloropropene	2067	100	2000	0	103	70-130	1755	16.3	30	
Dibromochloromethane	1831	100	2000	0	91.6	60-115	1574	15.1	30	
Dichlorodifluoromethane	2908	100	2000	0	145	20-120	2416	18.5	30	S
Ethylbenzene	2283	100	2000	0	114	76-123	1897	18.5	30	
Isopropylbenzene	2337	100	2000	0	117	80-127	1927	19.2	30	
Methyl tert-butyl ether	2609	100	2000	0	130	68-129	2370	9.6	30	S
Methylene chloride	2346	500	2000	0	117	72-125	2052	13.4	30	
Styrene	2255	100	2000	0	113	83-137	1938	15.1	30	
Tetrachloroethene	4434	100	2000	0	222	68-166	3771	16.2	30	S
Toluene	2237	100	2000	0	112	76-125	1844	19.3	30	
trans-1,2-Dichloroethene	2568	100	2000	63	125	80-140	2190	15.9	30	
trans-1,3-Dichloropropene	1785	100	2000	0	89.2	56-132	1554	13.8	30	
Trichloroethene	5101	100	2000	2142	148	77-125	4583	10.7	30	S
Trichlorofluoromethane	2117	100	2000	0	106	60-140	1749	19	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC BATCH REPORT

Batch ID: **R275144A** Instrument ID **VMS11** Method: **SW8260C**

Vinyl chloride	2216	100	2000	122	105	50-136	1835	18.8	30
Xylenes, Total	6982	300	6000	0	116	76-127	5821	18.1	30
Surr: 1,2-Dichloroethane-d4	*2101*	0	*2000*	0	*105*	*75-120*	2051	*2.41*	*30*
Surr: 4-Bromofluorobenzene	*2015*	0	*2000*	0	*101*	*80-110*	2030	*0.742*	*30*
Surr: Dibromofluoromethane	*2079*	0	*2000*	0	*104*	*85-115*	2094	*0.719*	*30*
Surr: Toluene-d8	*1953*	0	*2000*	0	*97.6*	*85-110*	1976	*1.17*	*30*

The following samples were analyzed in this batch:

19110348-18C	19110348-35C	19110348-37C
19110348-44A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC BATCH REPORT

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

MBLK Sample ID: **VBLKW1-191113-R275185A** Units: **µg/L** Analysis Date: **11/13/2019 11:31 A**

Client ID: Run ID: **VMS9_191113A** SeqNo: **6053449** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	U	1.0								
1,1,2,2-Tetrachloroethane	U	1.0								
1,1,2-Trichloroethane	U	1.0								
1,1,2-Trichlorotrifluoroethane	U	1.0								
1,1-Dichloroethane	U	1.0								
1,1-Dichloroethene	U	1.0								
1,2,4-Trichlorobenzene	U	1.0								
1,2-Dibromo-3-chloropropane	U	1.0								
1,2-Dibromoethane	U	1.0								
1,2-Dichlorobenzene	U	1.0								
1,2-Dichloroethane	U	1.0								
1,2-Dichloropropane	U	1.0								
1,3-Dichlorobenzene	U	1.0								
1,4-Dichlorobenzene	U	1.0								
2-Butanone	U	5.0								
2-Hexanone	U	5.0								
4-Methyl-2-pentanone	U	1.0								
Acetone	U	10								
Benzene	U	1.0								
Bromodichloromethane	U	1.0								
Bromoform	U	1.0								
Bromomethane	U	1.0								
Carbon disulfide	U	1.0								
Carbon tetrachloride	U	1.0								
Chlorobenzene	U	1.0								
Chloroethane	U	1.0								
Chloroform	U	1.0								
Chloromethane	U	1.0								
cis-1,2-Dichloroethene	U	1.0								
cis-1,3-Dichloropropene	U	1.0								
Cyclohexane	U	2.0								
Dibromochloromethane	U	1.0								
Dichlorodifluoromethane	U	1.0								
Ethylbenzene	U	1.0								
Isopropylbenzene	U	1.0								
Methyl acetate	U	2.0								
Methyl tert-butyl ether	U	1.0								
Methylcyclohexane	U	1.0								
Methylene chloride	U	5.0								
Styrene	U	1.0								
Tetrachloroethene	U	1.0								
Toluene	U	1.0								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

trans-1,2-Dichloroethene	U	1.0					
trans-1,3-Dichloropropene	U	1.0					
Trichloroethene	U	1.0					
Trichlorofluoromethane	U	1.0					
Vinyl chloride	U	1.0					
Xylenes, Total	U	3.0					
Surr: 1,2-Dichloroethane-d4	*20.62*	0	*20*	0	*103*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.79*	0	*20*	0	*99*	*80-110*	0
Surr: Dibromofluoromethane	*19.85*	0	*20*	0	*99.2*	*85-115*	0
Surr: Toluene-d8	*20.4*	0	*20*	0	*102*	*85-110*	0

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

LCS Sample ID: **VLCSW1-191113-R275185A** Units: **µg/L** Analysis Date: **11/13/2019 10:44 A**

Client ID: Run ID: **VMS9_191113A** SeqNo: **6053448** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.51	1.0	20	0	97.6	75-130	0			
1,1,2,2-Tetrachloroethane	19.63	1.0	20	0	98.2	75-130	0			
1,1,2-Trichloroethane	20.25	1.0	20	0	101	75-125	0			
1,1-Dichloroethane	19.72	1.0	20	0	98.6	68-142	0			
1,1-Dichloroethene	25.94	1.0	20	0	130	70-145	0			
1,2,4-Trichlorobenzene	19.34	1.0	20	0	96.7	70-135	0			
1,2-Dibromo-3-chloropropane	17.55	1.0	20	0	87.8	60-130	0			
1,2-Dibromoethane	23.98	1.0	20	0	120	67-155	0			
1,2-Dichlorobenzene	18.93	1.0	20	0	94.6	70-130	0			
1,2-Dichloroethane	18.98	1.0	20	0	94.9	78-125	0			
1,2-Dichloropropane	21.38	1.0	20	0	107	75-125	0			
1,3-Dichlorobenzene	19.48	1.0	20	0	97.4	75-130	0			
1,4-Dichlorobenzene	19.51	1.0	20	0	97.6	75-130	0			
2-Butanone	20.08	5.0	20	0	100	55-150	0			
2-Hexanone	20.62	5.0	20	0	103	60-135	0			
4-Methyl-2-pentanone	25.43	1.0	20	0	127	77-178	0			
Acetone	28.77	10	20	0	144	60-160	0			
Benzene	18.94	1.0	20	0	94.7	70-130	0			
Bromodichloromethane	20.45	1.0	20	0	102	75-125	0			
Bromoform	17.56	1.0	20	0	87.8	60-125	0			
Bromomethane	29.02	1.0	20	0	145	30-185	0			
Carbon disulfide	25.37	1.0	20	0	127	60-165	0			
Carbon tetrachloride	17.73	1.0	20	0	88.6	65-140	0			
Chlorobenzene	18.47	1.0	20	0	92.4	80-120	0			
Chloroethane	18.76	1.0	20	0	93.8	31-172	0			
Chloroform	18.78	1.0	20	0	93.9	66-135	0			
Chloromethane	13.78	1.0	20	0	68.9	46-148	0			
cis-1,2-Dichloroethene	19.84	1.0	20	0	99.2	75-134	0			
cis-1,3-Dichloropropene	21.42	1.0	20	0	107	70-130	0			
Dibromochloromethane	17.78	1.0	20	0	88.9	60-115	0			
Dichlorodifluoromethane	21.22	1.0	20	0	106	20-120	0			
Ethylbenzene	20.49	1.0	20	0	102	76-123	0			
Isopropylbenzene	19.38	1.0	20	0	96.9	80-127	0			
Methyl tert-butyl ether	21.87	1.0	20	0	109	68-129	0			
Methylene chloride	19.54	5.0	20	0	97.7	72-125	0			
Styrene	20.07	1.0	20	0	100	83-137	0			
Tetrachloroethene	18.16	1.0	20	0	90.8	68-166	0			
Toluene	19.67	1.0	20	0	98.4	76-125	0			
trans-1,2-Dichloroethene	20.15	1.0	20	0	101	80-140	0			
trans-1,3-Dichloropropene	20.63	1.0	20	0	103	56-132	0			
Trichloroethene	18.8	1.0	20	0	94	77-125	0			
Trichlorofluoromethane	15.16	1.0	20	0	75.8	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC BATCH REPORT

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

Vinyl chloride	16.56	1.0	20	0	82.8	50-136	0
Xylenes, Total	57.69	3.0	60	0	96.2	76-127	0
Surr: 1,2-Dichloroethane-d4	*20.44*	0	*20*	0	*102*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.47*	0	*20*	0	*102*	*80-110*	0
Surr: Dibromofluoromethane	*21.02*	0	*20*	0	*105*	*85-115*	0
Surr: Toluene-d8	*19.95*	0	*20*	0	*99.8*	*85-110*	0

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

MS Sample ID: **19110474-15A MS** Units: **µg/L** Analysis Date: **11/13/2019 07:10 P**

Client ID: Run ID: **VMS9_191113A** SeqNo: **6054356** Prep Date: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	10040	500	10000	0	100	75-130	0			
1,1,2,2-Tetrachloroethane	9500	500	10000	0	95	75-130	0			
1,1,2-Trichloroethane	10140	500	10000	0	101	75-125	0			
1,1-Dichloroethane	10100	500	10000	0	101	68-142	0			
1,1-Dichloroethene	13390	500	10000	0	134	70-145	0			
1,2,4-Trichlorobenzene	8940	500	10000	0	89.4	70-135	0			
1,2-Dibromo-3-chloropropane	9005	500	10000	0	90	60-130	0			
1,2-Dibromoethane	11740	500	10000	0	117	67-155	0			
1,2-Dichlorobenzene	8885	500	10000	0	88.8	70-130	0			
1,2-Dichloroethane	9505	500	10000	0	95	78-125	0			
1,2-Dichloropropane	10740	500	10000	0	107	75-125	0			
1,3-Dichlorobenzene	9435	500	10000	0	94.4	75-130	0			
1,4-Dichlorobenzene	9225	500	10000	0	92.2	75-130	0			
2-Butanone	11710	2,500	10000	0	117	55-150	0			
2-Hexanone	10040	2,500	10000	0	100	60-135	0			
4-Methyl-2-pentanone	12910	500	10000	0	129	77-178	0			
Acetone	10500	5,000	10000	0	105	60-160	0			
Benzene	23360	500	10000	16600	67.6	70-130	0			S
Bromodichloromethane	10540	500	10000	0	105	75-125	0			
Bromoform	8360	500	10000	0	83.6	60-125	0			
Bromomethane	54710	500	10000	0	547	30-185	0			SE
Carbon disulfide	12520	500	10000	0	125	60-165	0			
Carbon tetrachloride	9065	500	10000	0	90.6	65-140	0			
Chlorobenzene	8990	500	10000	0	89.9	80-120	0			
Chloroethane	8680	500	10000	0	86.8	31-172	0			
Chloroform	9680	500	10000	0	96.8	66-135	0			
Chloromethane	6310	500	10000	0	63.1	46-148	0			
cis-1,2-Dichloroethene	10050	500	10000	0	100	75-134	0			
cis-1,3-Dichloropropene	10170	500	10000	0	102	70-130	0			
Dibromochloromethane	9175	500	10000	0	91.8	60-115	0			
Dichlorodifluoromethane	8965	500	10000	0	89.6	20-120	0			
Ethylbenzene	14380	500	10000	4195	102	76-123	0			
Isopropylbenzene	9905	500	10000	0	99	80-127	0			
Methyl tert-butyl ether	10700	500	10000	0	107	68-129	0			
Methylene chloride	10040	2,500	10000	0	100	72-125	0			
Styrene	10060	500	10000	0	101	83-137	0			
Tetrachloroethene	8910	500	10000	0	89.1	68-166	0			
Toluene	57720	500	10000	53820	39	76-125	0			SEO
trans-1,2-Dichloroethene	10520	500	10000	0	105	80-140	0			
trans-1,3-Dichloropropene	9575	500	10000	0	95.8	56-132	0			
Trichloroethene	9765	500	10000	0	97.6	77-125	0			
Trichlorofluoromethane	8300	500	10000	0	83	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

QC BATCH REPORT

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

Vinyl chloride	8260	500	10000	0	82.6	50-136	0
Xylenes, Total	49400	1,500	30000	21120	94.2	76-127	0
Surr: 1,2-Dichloroethane-d4	*10440*	0	*10000*	0	*104*	*75-120*	0
Surr: 4-Bromofluorobenzene	*9995*	0	*10000*	0	*100*	*80-110*	0
Surr: Dibromofluoromethane	*10540*	0	*10000*	0	*105*	*85-115*	0
Surr: Toluene-d8	*9930*	0	*10000*	0	*99.3*	*85-110*	0

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

MSD Sample ID: **19110474-15A MSD** Units: **µg/L** Analysis Date: **11/13/2019 07:25 P**

Client ID: Run ID: **VMS9_191113A** SeqNo: **6054357** Prep Date: DF: **500**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	10760	500	10000	0	108	75-130	10040	6.97	30	
1,1,2,2-Tetrachloroethane	10060	500	10000	0	101	75-130	9500	5.68	30	
1,1,2-Trichloroethane	10480	500	10000	0	105	75-125	10140	3.25	30	
1,1-Dichloroethane	10690	500	10000	0	107	68-142	10100	5.63	30	
1,1-Dichloroethene	14320	500	10000	0	143	70-145	13390	6.68	30	
1,2,4-Trichlorobenzene	9265	500	10000	0	92.6	70-135	8940	3.57	30	
1,2-Dibromo-3-chloropropane	8935	500	10000	0	89.4	60-130	9005	0.78	30	
1,2-Dibromoethane	12590	500	10000	0	126	67-155	11740	6.94	30	
1,2-Dichlorobenzene	9435	500	10000	0	94.4	70-130	8885	6	30	
1,2-Dichloroethane	10040	500	10000	0	100	78-125	9505	5.42	30	
1,2-Dichloropropane	11220	500	10000	0	112	75-125	10740	4.33	30	
1,3-Dichlorobenzene	9955	500	10000	0	99.6	75-130	9435	5.36	30	
1,4-Dichlorobenzene	9515	500	10000	0	95.2	75-130	9225	3.09	30	
2-Butanone	12380	2,500	10000	0	124	55-150	11710	5.52	30	
2-Hexanone	10500	2,500	10000	0	105	60-135	10040	4.43	30	
4-Methyl-2-pentanone	13770	500	10000	0	138	77-178	12910	6.45	30	
Acetone	11300	5,000	10000	0	113	60-160	10500	7.25	30	
Benzene	24900	500	10000	16600	83	70-130	23360	6.36	30	
Bromodichloromethane	11250	500	10000	0	112	75-125	10540	6.47	30	
Bromoform	8835	500	10000	0	88.4	60-125	8360	5.52	30	
Bromomethane	67700	500	10000	0	677	30-185	54710	21.2	30	SE
Carbon disulfide	13720	500	10000	0	137	60-165	12520	9.11	30	
Carbon tetrachloride	10090	500	10000	0	101	65-140	9065	10.7	30	
Chlorobenzene	9600	500	10000	0	96	80-120	8990	6.56	30	
Chloroethane	8575	500	10000	0	85.8	31-172	8680	1.22	30	
Chloroform	10180	500	10000	0	102	66-135	9680	5.04	30	
Chloromethane	6735	500	10000	0	67.4	46-148	6310	6.52	30	
cis-1,2-Dichloroethene	10680	500	10000	0	107	75-134	10050	6.08	30	
cis-1,3-Dichloropropene	11280	500	10000	0	113	70-130	10170	10.3	30	
Dibromochloromethane	9615	500	10000	0	96.2	60-115	9175	4.68	30	
Dichlorodifluoromethane	8835	500	10000	0	88.4	20-120	8965	1.46	30	
Ethylbenzene	15280	500	10000	4195	111	76-123	14380	6.14	30	
Isopropylbenzene	10500	500	10000	0	105	80-127	9905	5.88	30	
Methyl tert-butyl ether	11360	500	10000	0	114	68-129	10700	5.94	30	
Methylene chloride	10300	2,500	10000	0	103	72-125	10040	2.61	30	
Styrene	10820	500	10000	0	108	83-137	10060	7.23	30	
Tetrachloroethene	9460	500	10000	0	94.6	68-166	8910	5.99	30	
Toluene	62560	500	10000	53820	87.4	76-125	57720	8.05	30	EO
trans-1,2-Dichloroethene	11140	500	10000	0	111	80-140	10520	5.73	30	
trans-1,3-Dichloropropene	10300	500	10000	0	103	56-132	9575	7.34	30	
Trichloroethene	10260	500	10000	0	103	77-125	9765	4.9	30	
Trichlorofluoromethane	8620	500	10000	0	86.2	60-140	8300	3.78	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Client: The Mannik & Smith Group, Inc.
Work Order: 19110348
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R275185A** Instrument ID **VMS9** Method: **SW8260C**

Vinyl chloride	8670	500	10000	0	86.7	50-136	8260	4.84	30
Xylenes, Total	53210	1,500	30000	21120	107	76-127	49400	7.43	30
Surr: 1,2-Dichloroethane-d4	*10370*	0	*10000*	0	*104*	*75-120*	10440	*0.721*	*30*
Surr: 4-Bromofluorobenzene	*9820*	0	*10000*	0	*98.2*	*80-110*	9995	*1.77*	*30*
Surr: Dibromofluoromethane	*10710*	0	*10000*	0	*107*	*85-115*	10540	*1.65*	*30*
Surr: Toluene-d8	*9855*	0	*10000*	0	*98.6*	*85-110*	9930	*0.758*	*30*

The following samples were analyzed in this batch: 19110348-35C 19110348-37C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Revision: 1

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page _____ of _____

COC ID: 191597

ALS Project Manager: | ALS Work Order #: 1911 0348

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Racer	A	Total Al, Fe, Mn
Work Order		Project Number	RZ330025	B	Dissolved Al, Fe, Mn
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	
Send Report To	Jason Martinez	Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address	JMartinez@mannikSmithgroup.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-RZ330025-102819-KRM-001	10/28/19	09:40	W	HNO3	2	a	a									
2	W-RZ330025-102819-KRM-002		1053			2	a	a									
3	W-RZ330025-102819-KRM-003		1300			2	a	a									
4	W-RZ330025-102819-SCD-004		1340			2	a	a									
5	W-RZ330025-102819-KRM-005		1430			2	a	a									
6	W-RZ330025-102819-SCD-006		1430			2	a	a									
7	W-RZ330025-102919-KRM-007	10/29/19	0900			2	a	a									
8	W-RZ330025-102919-SCD-008		0907			2	a	a									
9	W-RZ330025-102919-KRM-009		1027			2	a	a									
10	W-RZ330025-102919-SCD-010		1042			2	a	a									

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____ | Results Due Date:

Relinquished by:	Date: 11/5/19	Time: 1423	Received by:	Notes:	
Relinquished by:	Date: 11/5/19	Time: 1700	Received by (Laboratory):	11/6/19	
Logged by (Laboratory): MJG	Date: 11/6/19	Time: 9:01	Checked by (Laboratory):		

Cooler ID	Cooler Temp.
	2.5°C
	SR2
	SR18

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page _____ of _____

COC ID: 191596

ALS Project Manager: | ALS Work Order #: 1910348

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Racer	A	Total Al, Fe, Mn
Work Order		Project Number	RZ330025	B	Dissolved Al, Fe, Mn
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	VOCs
Send Report To	Jason Martinez	Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E	
				F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address	JMartinez@mannikSmithgroup.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-RZ330025-102919-SCD-011	10/29/19	1151	W	HNO3	2	α	α									
2	W-RZ330025-102919-KRM-012		1208			2	α	α									
3	W-RZ330025-102919-SCD-013		1303			2	α	α									
4	W-RZ330025-102919-KRM-014		1406			2	α	α									
5	W-RZ330025-102919-SCD-015		1419			2	α	α									
6	W-RZ330025-102919-SCD-016		1419			2	α	α									
7	W-RZ330025-102919-SCD-017		1524			2	α	α									
8	W-RZ330025-102919-KRM-018		1625		HNO3, HCl	5	α	α	α								
9	W-RZ330025-102919-SCD-019		1636		HNO3	2	α	α									
10	W-RZ330025-102919-KRM-020		1708			2	α	α									

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other _____ | Results Due Date:

Relinquished by:	Date: 11/5/19	Time: 1423	Received by:		
Relinquished by:	Date: 11/5/19	Time: 1790	Received by (Laboratory):	11/6/19 8:00	
Logged by (Laboratory): MJG	Date: 11/6/19	Time: 9:01	Checked by (Laboratory):		

Notes:

Cooler ID	Cooler Temp.
	2.5°C
	3R2
	PM18

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 191590

ALS Project Manager: | ALS Work Order #: 1911034 8

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Racer	A	Total Al, Fe, Mn
Work Order		Project Number	RZ330025	B	Dissolved Al, Fe, Mn
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	
Send Report To	Jason Martinez	Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address	JMartinez@mannikSmithgroup.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-RZ330025-103019-SCD-021	10/30/19	904	W	HNO3	2	X	X									
2	W-RZ330025-103019-KRM-022	"	925	"	"	2	X	X									
3	W-RZ330025-103019-KRM-023	"	1105	"	"	2	X	X									
4	W-RZ330025-103019-KRM-024	"	1245	"	"	2	X	X									
5	W-RZ330025-103019-SCD-025	"	1311	"	"	2	X	X									
6	W-RZ330025-103019-KRM-026	"	1415	"	"	2	X	X									
7	W-RZ330025-103019-SCD-027	"	1434	"	"	2	X	X									
8	W-RZ330025-103019-KRM-028	"	1425	"	"	2	X	X									
9	W-RZ330025-103119-SCD-029	10/31/19	9:21	"	"	2	X	X									
10	W-RZ330025-103119-KRM-030	"	1000	"	"	2	X	X									

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other ____ | Results Due Date:

Relinquished by:	Date: 11/5/19	Time: 1423	Received by:	
Relinquished by:	Date: 11/5/19	Time: 1700	Received by/Laboratory:	11/6/19 8:00
Logged by/Laboratory: MJG	Date: 11/6/19	Time: 9:01	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp.
	2.5°C
	5°C
	2.4°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ Level III Std QC/Raw Data ☐ Level IV SW846/CLP ☐ TRRP CheckList ☐ TRRP Level IV ☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 191591

ALS Project Manager: | ALS Work Order #: 1911 0348

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	RACER	A	Total Al, Fe, Mn
Work Order		Project Number	RZ330025	B	Dissolved Al, Fe, Mn
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc.	C	VOCs
Send Report To	Jason Martinez	Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E	
				F	
City/State/Zip	Canton, MI 48188	City/State/Zip	Canton, MI 48188	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address	JMartinez@mannikSmithgroup.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-RZ330025-103119-KRM-031	10/31/19	1455	W	HNO3	2	x	x									
2	W-RZ330025-103119-SCD-032	"	1436	"	"	2	x	x									
3	W-RZ330025-103119-KRM-033	"	1525	"	"	2	x	x									
4	W-RZ330025-110119-KRM-034	11/1/19	915	"	"	2	x	x									
5	W-RZ330025-110119-SCD-035	"	906	"	HNO3, HCl	5	x	x	x								
6	W-RZ330025-110119-KRM-036	"	1055	"	HNO3	2	x	x									
7	W-RZ330025-110119-SCD-037	"	1036	"	HNO3, HCl	5	x	x	x								
8	W-RZ330025-110119-KRM-038	"	1055	"	HNO3	2	x	x									
9	W-RZ330025-110119-SCD-039	"	1211	"	"	2	x	x									
10	W-RZ330025-110119-KRM-040	"	1235	"	"	2	x	x									

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour | Results Due Date:

Relinquished by:	Date: 11/5/19	Time: 1473	Received by:	
Relinquished by:	Date: 11/5/19	Time: 1700	Received by (Laboratory):	11/6/19 8:00
Logged by Laboratory: MJG	Date: 11/6/19	Time: 9:01	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp.
	2.5°C
	SR2
	2418

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.

Cincinnati, OH +1 513 733 5336
Fort Collins, CO +1 970 490 1511
Houston, TX +1 281 530 5656
Spring City, PA +1 610 948 4903
South Charleston, WV +1 304 356 3168
Everett, WA +1 425 356 2600
Holland, MI +1 616 399 6070
Middletown, PA +1 717 944 5541
Salt Lake City, UT +1 801 266 7700
York, PA +1 717 505 5280

Chain of Custody Form

Page ____ of ____

COC ID: 191594

ALS Project Manager: | ALS Work Order #: 1911 6348

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Racer	A	Total Al, Fe, Mn
Work Order		Project Number	R2330025	B	Dissolved Al, Fe, Mn
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc	C	
Send Report To	Jason Martinez	Invoice Attn	Accounts Payable	D	
Address	2365 Haggerty Road South Suite 100	Address	2365 Haggerty Road South Suite 100	E F	
City/State/Zip	Canton, MI 48168	City/State/Zip	Canton, MI 48168	G	
Phone	(734) 397-3100	Phone	(734) 397-3100	H	
Fax	(734) 397-3131	Fax	(734) 397-3131	I	
e-Mail Address	JMartinez@mannikSmithgroup.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	W-R2330025-110119-SCD-041	11/1/19	1450	water	HNO3	2	a	a									
2	W-R2330025-110119-KRM-042	1	1520	1	1	2	a	a									
3	W-R2330025-110419-KRM-043	11/4/19	1127	1	1	2	a	a									
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign | Shipment Method | Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☐ 5 WK Days ☐ Other ____ ☐ 2 WK Days ☐ 24 Hour | Results Due Date:

Relinquished by:	Date: 11/5/19	Time: 1423	Received by:		
Relinquished by:	Date: 11/5/19	Time: 1700	Received by (Laboratory):		11/6/19 8:00
Logged by (Laboratory): MJG	Date: 11/6/19	Time: 9:05	Checked by (Laboratory):		

Notes:

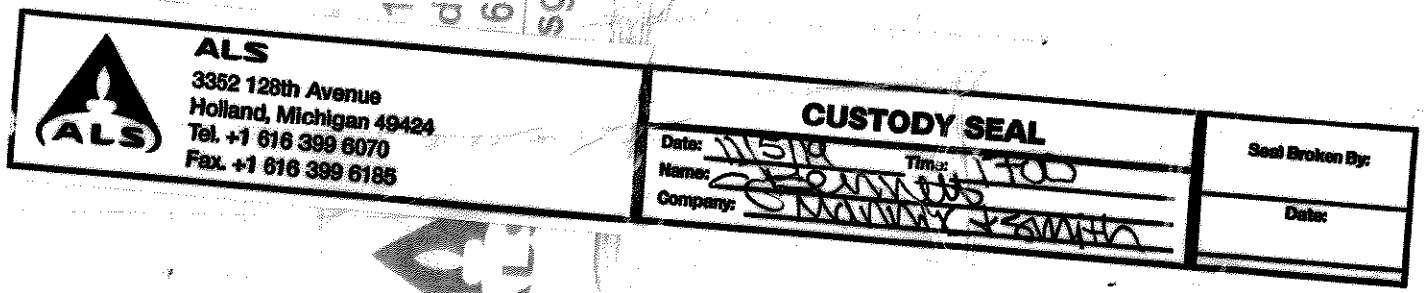
Cooler ID	Cooler Temp.
	2.5°C
	5122
	4418

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP CheckList
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Copyright 2011 by ALS Environmental.


ALS
3352 128th Avenue
Holland, Michigan 49424
Tel. +1 616 399 6070
Fax. +1 616 399 6185
CUSTODY SEAL
Date:
Time:
Name:
Company:
Seal Broken By:
Date:

ALS Group, USA

Sample Receipt Checklist

Client Name: **MANNIK&SMITH** Date/Time Received: **06-Nov-19 08:00**

Work Order: **19110348** Received by: **MJG**

Checklist completed by Matthew Gaylord (eSignature) 06-Nov-19 (Date) Reviewed by: Bill Carey (eSignature) 07-Nov-19 (Date)

Matrices: Water
Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	2.5/2.5C	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/6/2019 9:44:22 AM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: