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: David Favero, RACER Trust
Date: February 19, 2021

Project #: R2330026
Re: RACER Van Buren Landfill Site – Fall 2020 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 2020)
- Figure 3, Monitoring Well Analytical Summary Through (November 2020)
- Figure 4, Iron Concentration Contours (November 2020)
- 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, Spring and Fall 2019, and Spring 2020 semi-annual ground water sampling events were sent in 2016, 2017, 2018, 2019, and 2020 respectively (results for all other semi-annual sampling events were discussed in the investigation reports).

The Fall 2020 Semi Annual Ground Water Sampling activities completed on the General Motors Property are summarized in a separate memo.

FALL 2020 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

the Fall 2020 Semi-Annual Ground Water Sampling event was completed between November 2, 2020 to November 10, 2020 by Kevin Mercier and Spencer Rogers 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. The three other CRA wells also had a static water level measurement. Finally, total well depths were measured at every well to calculate the amount of sediment accumulation in each well. During this sampling event, MW-35 and MW-36 located on the Willow Run Airport were not sampled as USEPA had approved abandoning the wells.

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 2020 ground water hydraulic monitoring data are illustrated on *Figure 2, Ground Water Elevation Contour Map (November 2020).*

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 criteria (Health-Based DW) are depicted on *Figure 3, Monitoring Well Analytical Summary through November 2020 Semi-Annual Ground Water Monitoring (Exceedances Only).*

SUMMARY AND RECOMMENDATIONS

In summary, the ground water sample analytical results from the Fall 2020 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-4, MW-9, MW-10) contain concentrations of dissolved iron above EGLE Part 201 Non-residential Health-Based DW criteria. Samples collected from MW-11 (also located at the northern Site) continue to contain dissolved aluminum, iron and manganese concentrations below EGLE Part 201 Non-residential Health-Based DW criteria. Ground water sample analytical results indicate that ground water south of the Site along Ecorse Road (MW-18, MW-19, MW-20) contains dissolved iron at concentrations above EGLE Part 201 Residential Health-Based DW criteria.

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 contaminants 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 twelve (12) monitoring wells (excluding those monitoring wells on the GM Site and discussed in the report "General Motors Property – Spring 2020 Semi-Annual Ground Water Sampling Results") on and around the Site had an estimated sediment accumulation of over 1.0 feet. Thirty-one (31) wells have an

estimated sediment accumulation of less than 1.0 feet. On August 6th 2020 MSG redeveloped the wells with an estimated sediment accumulation of over 1.0 foot. As a result from the redevelopment only three (3) wells contain sediment over 1.0 foot. All subsequent monitoring events will include 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-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020																			
MW-1	W-R2330026-110620-KRM-023	11/6/2020	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

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-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-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																			
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020																			
MW-1	W-R2330026-110620-KRM-023	11/6/2020	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

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-ntr}) (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-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020							19	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020							**17**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	<8	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020							**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1	W-R2330026-110620-KRM-023	11/6/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	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

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-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020	**230**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	**230**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-110620-KRM-023	11/6/2020	**240**	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**

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-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
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-3[A]	W-R2330026-052120-KRM-027	5/21/2020																			
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020																			
MW-3	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A (DUP)]	W-R2330026-110520-KRM-018	11/5/2020																			
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	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

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-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
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-3[A]	W-R2330026-052120-KRM-027	5/21/2020																			
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020																			
MW-3	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330026-110520-KRM-018	11/5/2020																			
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	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

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-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		**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
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-3[A]	W-R2330026-052120-KRM-027	5/21/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,800**	NS	NS
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020							**2,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-3	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,600**	NS	NS
MW-3[A (DUP)]	W-R2330026-110520-KRM-018	11/5/2020							**6,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	NS	NS	NS	NS	NS	NS	**48**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	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**

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-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
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-3[A]	W-R2330026-052120-KRM-027	5/21/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330026-052120-KRM-027	5/21/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330026-110520-KRM-017	11/5/2020	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330026-110520-KRM-018	11/5/2020	**360**	NS	NS	NS	NS	NS	NS	NS
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	**140**	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

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-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
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																			
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020																			
MW-4	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-5[A]	W-R2330026-052220-KRM-032	5/22/2020																			

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-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
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																			
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020																			
MW-4	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-5[A]	W-R2330026-052220-KRM-032	5/22/2020																			

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-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
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020							**47**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-4	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
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-5[A]	W-R2330026-052220-KRM-032	5/22/2020							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	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-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
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020	**540**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330026-052120-KRM-023	5/21/2020	**540**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020	**83**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330026-110520-KRM-015	11/5/2020	**86**	NS	NS	NS	NS	NS	NS	NS
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-5[A]	W-R2330026-052220-KRM-032	5/22/2020	**99**	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_{GI-nrd}) (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-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020																			
MW-5	W-R2330026-110620-KRM-021	11/6/2020	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																			
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-ethyhexyl)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-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020																			
MW-5	W-R2330026-110620-KRM-021	11/6/2020	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																			
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_{ch-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-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,400**	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020							**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS
MW-5	W-R2330026-110620-KRM-021	11/6/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	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		**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
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-5	W-R2330026-052220-KRM-032	5/22/2020	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020	**110**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330026-110620-KRM-021	11/6/2020	**100**	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
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-6[A]	W-R2330026-052220-KRM-030	5/22/2020																			
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020																			
MW-6	W-R2330026-110520-KRM-013	11/5/2020	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-7[A]	W-R2330026-051920-KRM-008	5/19/2020																			
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020																			
MW-7	W-R2330026-110920-KRM-026	11/9/2020	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																			

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-6[A]	W-R2330026-052220-KRM-030	5/22/2020																			
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020																			
MW-6	W-R2330026-110520-KRM-013	11/5/2020	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-7[A]	W-R2330026-051920-KRM-008	5/19/2020																			
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020																			
MW-7	W-R2330026-110920-KRM-026	11/9/2020	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																			

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-6[A]	W-R2330026-052220-KRM-030	5/22/2020							**54**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**840**	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020							**1,400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS
MW-6	W-R2330026-110520-KRM-013	11/5/2020	NS	NS	NS	NS	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	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-7[A]	W-R2330026-051920-KRM-008	5/19/2020							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020							**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,700**	NS	NS
MW-7	W-R2330026-110920-KRM-026	11/9/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,600**	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

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-6[A]	W-R2330026-052220-KRM-030	5/22/2020	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020	**700**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-110520-KRM-013	11/5/2020	**570**	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-7[A]	W-R2330026-051920-KRM-008	5/19/2020	**790**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	**820**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020	**730**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-110920-KRM-026	11/9/2020	**760**	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**

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 ($GW_{VI-crit}$) (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-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																			
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-8[A]	W-R2330026-110920-KRM-027	11/9/2020																			
MW-8	W-R2330026-110920-KRM-027	11/9/2020	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_{SI-nrr}) (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-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																			
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-8[A]	W-R2330026-110920-KRM-027	11/9/2020																			
MW-8	W-R2330026-110920-KRM-027	11/9/2020	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_{SI-nrz}) (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-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
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
MW-8[A]	W-R2330026-110920-KRM-027	11/9/2020							**95**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,700**	NS	NS
MW-8	W-R2330026-110920-KRM-027	11/9/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	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-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
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
MW-8[A]	W-R2330026-110920-KRM-027	11/9/2020	**300**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330026-110920-KRM-027	11/9/2020	**290**	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-9[A]	W-R2330026-052220-KRM-034	5/22/2020																			
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020																			
MW-9	W-R2330026-110620-KRM-024	11/6/2020	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																			

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-9[A]	W-R2330026-052220-KRM-034	5/22/2020																			
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020																			
MW-9	W-R2330026-110620-KRM-024	11/6/2020	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																			

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	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	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	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	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	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	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	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-9[A]	W-R2330026-052220-KRM-034	5/22/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020							**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS
MW-9	W-R2330026-110620-KRM-024	11/6/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	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

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-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-9[A]	W-R2330026-052220-KRM-034	5/22/2020	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	**250**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020	**250**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-110620-KRM-024	11/6/2020	**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**

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-R2330017-031915-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-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-10[A]	W-R2330026-052720-KRM-039	5/27/2020																			
MW-10	W-R2330026-052720-KRM-039	5/27/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.7**	<0.49	<0.49	**25**	<0.68	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020																			
MW-10	W-R2330026-110620-KRM-022	11/6/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.9**	<0.49	<0.49	**25**	<0.68	<0.68	<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																			

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-R2330017-031915-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-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-10[A]	W-R2330026-052720-KRM-039	5/27/2020																			
MW-10	W-R2330026-052720-KRM-039	5/27/2020	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020																			
MW-10	W-R2330026-110620-KRM-022	11/6/2020	<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																			

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-R2330017-031915-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**
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		**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		**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		**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		**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		**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		**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		**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-10[A]	W-R2330026-052720-KRM-039	5/27/2020							**27**	NS	NS	NS	NS	NS	NS	NS	NS		**18,000**	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020							**94**	NS	NS	NS	NS	NS	NS	NS	NS		**20,000**	NS	NS
MW-10	W-R2330026-110620-KRM-022	11/6/2020	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	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		**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		**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		**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		**150**	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-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
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-10[A]	W-R2330026-052720-KRM-039	5/27/2020	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	**530**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-110620-KRM-022	11/6/2020	**530**	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

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-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-11[A]	W-R2330026-052120-KRM-028	5/21/2020																			
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020																			
MW-11	W-R2330026-110620-KRM-020	11/6/2020	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																			
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-12[A]	W-R2330026-052020-KRM-024	5/20/2020																			
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020																			

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-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-11[A]	W-R2330026-052120-KRM-028	5/21/2020																			
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020																			
MW-11	W-R2330026-110620-KRM-020	11/6/2020	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**
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-12[A]	W-R2330026-052020-KRM-024	5/20/2020																			
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020																			

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-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-11[A]	W-R2330026-052120-KRM-028	5/21/2020							**60**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**500**	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020							**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2000**	NS	NS
MW-11	W-R2330026-110620-KRM-020	11/6/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1500**	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
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-12[A]	W-R2330026-052020-KRM-024	5/20/2020							**38**	NS	NS	NS	NS	NS	NS	NS	NS	NS	14,000	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	13,000	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020							**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	13,000	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-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-11[A]	W-R2330026-052120-KRM-028	5/21/2020	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	**57**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-110620-KRM-020	11/6/2020	**180**	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**
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-12[A]	W-R2330026-052020-KRM-024	5/20/2020	**450**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	**490**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020	**230**	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-12	W-R2330026-110520-KRM-014	11/5/2020	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-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																			
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																			
MW-14	W-R2330026-052020-KRM-018	5/20/2020	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-15[A]	W-R2330026-052020-KRM-022	5/20/2020																			
MW-15	W-R2330026-052020-KRM-022	5/20/2020	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-17[A]	W-R2330026-051920-KRM-010	5/19/2020																			
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020																			
MW-17	W-R2330026-110920-KRM-028	11/9/2020	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

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	W-R2330026-110520-KRM-014	11/5/2020	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-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																			
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																			
MW-14	W-R2330026-052020-KRM-018	5/20/2020	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-15[A]	W-R2330026-052020-KRM-022	5/20/2020																			
MW-15	W-R2330026-052020-KRM-022	5/20/2020	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																			
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-17[A]	W-R2330026-051920-KRM-010	5/19/2020																			
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020																			
MW-17	W-R2330026-110920-KRM-028	11/9/2020	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

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	W-R2330026-110520-KRM-014	11/5/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	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-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	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-15[A]	W-R2330026-052020-KRM-022	5/20/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	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
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-17[A]	W-R2330026-051920-KRM-010	5/19/2020							**33.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020							**42**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-17	W-R2330026-110920-KRM-028	11/9/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	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

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	W-R2330026-110520-KRM-014	11/5/2020	**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-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	**760**	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020	**660**	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330026-052020-KRM-018	5/20/2020	**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-15[A]	W-R2330026-052020-KRM-022	5/20/2020	**860**	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	**860**	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**
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-17[A]	W-R2330026-051920-KRM-010	5/19/2020	**350**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	**350**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020	**320**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-110920-KRM-028	11/9/2020	**310**	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**

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-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-18[A]	W-R2330026-052220-SSR-031	5/22/2020																			
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020																			
MW-18	W-R2330026-110920-KRM-029	11/9/2020	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																			

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-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-18[A]	W-R2330026-052220-SSR-031	5/22/2020																			
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020																			
MW-18	W-R2330026-110920-KRM-029	11/9/2020	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
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																			

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-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-18[A]	W-R2330026-052220-SSR-031	5/22/2020							**2,700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	**58**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020							**7,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS
MW-18	W-R2330026-110920-KRM-029	11/9/2020	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	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
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

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-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-18[A]	W-R2330026-052220-SSR-031	5/22/2020	**670**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	**250**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-110920-KRM-029	11/9/2020	**270**	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**
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

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	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-19[A]	W-R2330026-052020-SSR-033	5/22/2020																			
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020																			
MW-19	W-R2330026-110920-KRM-030	11/9/2020	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																			
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-20[A]	W-R2330026-051920-JPM-013	5/19/2020																			
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020																			
MW-20	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020																			
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	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

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	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-19[A]	W-R2330026-052020-SSR-033	5/22/2020																			
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020																			
MW-19	W-R2330026-110920-KRM-030	11/9/2020	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																			
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-20[A]	W-R2330026-051920-JPM-013	5/19/2020																			
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020																			
MW-20	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020																			
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	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

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	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	**22**	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	**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	**3,300**	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020							**2,700**	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	**94**	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020							**280**	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-19	W-R2330026-110920-KRM-030	11/9/2020	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	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
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-20[A]	W-R2330026-051920-JPM-013	5/19/2020							**650**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,300**	NS	NS
MW-20	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,800**	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,300**	NS	NS
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	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**

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	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-19[A]	W-R2330026-052020-SSR-033	5/22/2020	**530**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020	**440**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-110920-KRM-030	11/9/2020	**430**	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
MW-20	W-R2330025-103019-KRM-026	10/30/2019	**210**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020	**240**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-111020-SSR-032	11/10/2020	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	**200**	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

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-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-21[A]	W-R2330026-052020-SSR-017	5/20/2020																			
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020																			
MW-21	W-R2330026-110420-SSR-007	11/4/2020	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-22[A]	W-R2330026-052020-SSR-019	5/20/2020																			
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020																			
MW-22	W-R2330026-110420-SSR-008	11/4/2020	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																			

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-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-21[A]	W-R2330026-052020-SSR-017	5/20/2020																			
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020																			
MW-21	W-R2330026-110420-SSR-007	11/4/2020	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-22[A]	W-R2330026-052020-SSR-019	5/20/2020																			
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020																			
MW-22	W-R2330026-110420-SSR-008	11/4/2020	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**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			

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-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-21[A]	W-R2330026-052020-SSR-017	5/20/2020							**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**70**	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020							**550**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**870**	NS	NS
MW-21	W-R2330026-110420-SSR-007	11/4/2020	NS	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**330**	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-22[A]	W-R2330026-052020-SSR-019	5/20/2020							**340**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020							**330**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-22	W-R2330026-110420-SSR-008	11/4/2020	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	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
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

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-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-21[A]	W-R2330026-052020-SSR-017	5/20/2020	**170**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	**94**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-110420-SSR-007	11/4/2020	**290**	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-22[A]	W-R2330026-052020-SSR-019	5/20/2020	**130**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	**87**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020	**98**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-110420-SSR-008	11/4/2020	**87**	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**
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**

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 (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-23[A]	W-R2330026-052020-SSR-021	5/20/2020																			
MW-23	W-R2330026-052020-SSR-021	5/20/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**0.5 J**	<0.49	<0.49	**20**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020																			
MW-23	W-R2330026-110420-SSR-009	11/4/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.5**	<0.49	<0.49	**69**	<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-24[A]	W-R2330026-110420-KRM-010	11/4/2020																			
MW-24	W-R2330026-110420-KRM-010	11/4/2020	<0.52	<0.32	<0.35	<0.52	<6.2	<0.46	<0.49	<0.49	<0.40	<0.68	<0.83	<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

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 (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-23[A]	W-R2330026-052020-SSR-021	5/20/2020																			
MW-23	W-R2330026-052020-SSR-021	5/20/2020	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020																			
MW-23	W-R2330026-110420-SSR-009	11/4/2020	<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-24[A]	W-R2330026-110420-KRM-010	11/4/2020																			
MW-24	W-R2330026-110420-KRM-010	11/4/2020	<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

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 (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-23[A]	W-R2330026-052020-SSR-021	5/20/2020							**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-23	W-R2330026-110420-SSR-009	11/4/2020	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-24[A]	W-R2330026-110420-KRM-010	11/4/2020							**270**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-24	W-R2330026-110420-KRM-010	11/4/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	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

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-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-23[A]	W-R2330026-052020-SSR-021	5/20/2020	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	**91**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-110420-SSR-009	11/4/2020	**90**	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-24[A]	W-R2330026-110420-KRM-010	11/4/2020	**850**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330026-110420-KRM-010	11/4/2020	**740**	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**

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[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-25[A]	W-R2330026-052220-SSR-035	5/22/2020																			
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020																			
MW-25	W-R2330026-110420-SSR-011	11/4/2020	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-26[A]	W-R2330026-052020-SSR-015	5/20/2020																			
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020																			
MW-26	W-R2330026-110420-SSR-006	11/4/2020	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																			

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[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-25[A]	W-R2330026-052220-SSR-035	5/22/2020																			
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020																			
MW-25	W-R2330026-110420-SSR-011	11/4/2020	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-26[A]	W-R2330026-052020-SSR-015	5/20/2020																			
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020																			
MW-26	W-R2330026-110420-SSR-006	11/4/2020	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																			

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[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
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-25[A]	W-R2330026-052220-SSR-035	5/22/2020							**1,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020							220	NS	NS	NS	NS	NS	NS	NS	NS	NS	**700**	NS	NS
MW-25	W-R2330026-110420-SSR-011	11/4/2020	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		**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-26[A]	W-R2330026-052020-SSR-015	5/20/2020							**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020							**560**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**840**	NS	NS
MW-26	W-R2330026-110420-SSR-006	11/4/2020	NS	NS	NS	NS	NS	NS	**16**	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

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[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
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-25[A]	W-R2330026-052220-SSR-035	5/22/2020	**2,600**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	**170**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020	**990**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-110420-SSR-011	11/4/2020	**580**	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-26[A]	W-R2330026-052020-SSR-015	5/20/2020	**23**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	**21**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020	**34**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-110420-SSR-006	11/4/2020	**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**

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	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
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-27[A]	W-R2330026-052120-KRM-025	5/21/2020																			
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020																			
MW-27	W-R2330026-110520-KRM-016	11/5/2020	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-28[A]	W-R2330026-052020-KRM-016	5/20/2020																			
MW-28	W-R2330026-052020-KRM-016	5/20/2020	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

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	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
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-27[A]	W-R2330026-052120-KRM-025	5/21/2020																			
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020																			
MW-27	W-R2330026-110520-KRM-016	11/5/2020	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-28[A]	W-R2330026-052020-KRM-016	5/20/2020																			
MW-28	W-R2330026-052020-KRM-016	5/20/2020	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

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	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
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-27[A]	W-R2330026-052120-KRM-025	5/21/2020							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020							**630**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS
MW-27	W-R2330026-110520-KRM-016	11/5/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	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-28[A]	W-R2330026-052020-KRM-016	5/20/2020							**48.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	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**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	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-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	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
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-27[A]	W-R2330026-052120-KRM-025	5/21/2020	**89**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	**84**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-110520-KRM-016	11/5/2020	**96**	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-28[A]	W-R2330026-052020-KRM-016	5/20/2020	**480**	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	**490**	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

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-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-29[A]	W-R2330026-051920-JPM-007	5/19/2020																			
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020																			
MW-29	W-R2330026-111020-SSR-034	11/10/2020	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-30[A]	W-R2330026-051920-JPM-009	5/19/2020																			
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020																			
MW-30	W-R2330026-111020-SSR-035	11/10/2020	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																			

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-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-29[A]	W-R2330026-051920-JPM-007	5/19/2020																			
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020																			
MW-29	W-R2330026-111020-SSR-034	11/10/2020	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																			
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-30[A]	W-R2330026-051920-JPM-009	5/19/2020																			
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020																			
MW-30	W-R2330026-111020-SSR-035	11/10/2020	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																			

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-29[A]	W-R2330025-043019-SSR-005	4/30/2019							**230**	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-29[A]	W-R2330026-051920-JPM-007	5/19/2020							**260**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020							**640**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS
MW-29	W-R2330026-111020-SSR-034	11/10/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	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
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-30[A]	W-R2330026-051920-JPM-009	5/19/2020							**86**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**71 J**	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020							**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**690**	NS	NS
MW-30	W-R2330026-111020-SSR-035	11/10/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160**	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	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-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-29[A]	W-R2330026-051920-JPM-007	5/19/2020	**120**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	**130**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020	**140**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-111020-SSR-034	11/10/2020	**70**	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
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-30[A]	W-R2330026-051920-JPM-009	5/19/2020	**49**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	**34**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020	**54**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-111020-SSR-035	11/10/2020	**47**	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

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-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-31[A]	W-R2330026-051820-KRM-001	5/18/2020																			
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020																			
MW-31	W-R2330026-110220-KRM-001	11/2/2020	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
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-32[A]	W-R2330026-051820-KRM-003	5/18/2020																			
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020																			
MW-32	W-R2330026-110220-KRM-002	11/2/2020	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

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-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-31[A]	W-R2330026-051820-KRM-001	5/18/2020																			
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020																			
MW-31	W-R2330026-110220-KRM-001	11/2/2020	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
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-32[A]	W-R2330026-051820-KRM-003	5/18/2020																			
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020																			
MW-32	W-R2330026-110220-KRM-002	11/2/2020	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

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-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	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	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	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-31[A]	W-R2330026-051820-KRM-001	5/18/2020							**8,400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**40,000**	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020							**36**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-31	W-R2330026-110220-KRM-001	11/2/2020	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	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	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	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	NS
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
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**	NS	NS
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
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-32[A]	W-R2330026-051820-KRM-003	5/18/2020							**320**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,200**	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020							<10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS
MW-32	W-R2330026-110220-KRM-002	11/2/2020	NS	NS	NS	NS	NS	NS	<10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,000**	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

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-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-31[A]	W-R2330026-051820-KRM-001	5/18/2020	**1,200**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	**500**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020	**460**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-110220-KRM-001	11/2/2020	**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
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-32[A]	W-R2330026-051820-KRM-003	5/18/2020	**18**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	**17**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020	**91**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-110220-KRM-002	11/2/2020	**110**	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

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-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-33[A]	W-R2330026-051820-KRM-005	5/18/2020																			
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020																			
MW-33	W-R2330026-110220-KRM-003	11/2/2020	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-34[A]	W-R2330026-051920-JPM-011	5/19/2020																			
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020																			
MW-34	W-R2330026-111020-SSR-036	11/10/2020	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-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																			

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-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-33[A]	W-R2330026-051820-KRM-005	5/18/2020																			
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020																			
MW-33	W-R2330026-110220-KRM-003	11/2/2020	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-34[A]	W-R2330026-051920-JPM-011	5/19/2020																			
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020																			
MW-34	W-R2330026-111020-SSR-036	11/10/2020	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-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																			

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-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-33[A]	W-R2330026-051820-KRM-005	5/18/2020							**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	**<8**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020							**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330026-110220-KRM-003	11/2/2020	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-34[A]	W-R2330026-051920-JPM-011	5/19/2020							**41**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020							**100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS
MW-34	W-R2330026-111020-SSR-036	11/10/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	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	NS
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	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

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-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-33[A]	W-R2330026-051820-KRM-005	5/18/2020	**72**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	**71**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020	**69**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-110220-KRM-003	11/2/2020	**67**	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-34[A]	W-R2330026-051920-JPM-011	5/19/2020	**250**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	**240**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020	**420**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-111020-SSR-036	11/10/2020	**420**	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
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

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-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-35[A]	W-R2330026-051820-JPM-002	5/18/2020																			
MW-35	W-R2330026-051820-JPM-002	5/18/2020	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
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																			
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																			
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020																			
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	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**

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-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-35[A]	W-R2330026-051820-JPM-002	5/18/2020																			
MW-35	W-R2330026-051820-JPM-002	5/18/2020	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
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																			
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																			
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020																			
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	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**

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-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-35[A]	W-R2330026-051820-JPM-002	5/18/2020							**3500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	59 J	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
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020							**240**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**700**	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**560**	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
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020							**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	NS
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020							**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	2,200	NS	NS
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	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

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 ($GW_{I/I-nr}$) (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-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-35[A]	W-R2330026-051820-JPM-002	5/18/2020	**940**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	**<2.5**	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
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020	**320**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	**240**	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
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020	**84**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	**37**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020	**150**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	**25**	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**

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-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																			
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**

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-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**
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

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 ($GW_{vi,ro}$) (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-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
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

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-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**
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**

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-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
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	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-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
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-nv}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NA	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-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
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-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-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**
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	1,4-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	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017							**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**90**	NS	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	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017							**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**91**	NS	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	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**	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**42 J**	NS	NS
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-cr}) (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	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-DY}) (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 ($GW_{VI\text{-}crit}$) (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_{I-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 ($GW_{vi,ng}$) (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
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020																			
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020																			
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020																			
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020																			
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020																			
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020																			
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020																			
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020																			
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020																			
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020																			
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020																			
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020																			
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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)

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-R2330025-050619-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
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020																			
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020																			
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020																			
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020																			
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020																			
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020																			
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020																			
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020																			
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020																			
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020																			
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020																			
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020																			
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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)

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
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**60 J**	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020							**26**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	**8.5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020							**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**66**	NS	NS
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	**8.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020							**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**78 J**	NS	NS
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS

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)

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-NF}) (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
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020	**9.4**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	**4.6**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	<2.5	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 ($GW_{VI\text{-}nr}$) (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																			

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 ($GW_{VI\text{-}nr}$) (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																	

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																			

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 ($GW_{VI\text{-}nr}$) (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								

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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{IV,res}$) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																								
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																								
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020																								
MW-1	W-R2330026-110620-KRM-023	11/6/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	<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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	NS	NS	NS	NS	NS
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	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	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	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	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																								

Table 3
Summary Of Ground Water Sample Results

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

			Semivolatile Organic Compounds (SVOCs)																				
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			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E);(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{I3-res}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.43 J**	**15**	**1,500**
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																					**67**	**0.21 J**	**23**	**1,700**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.27 J**	**23**	**1,900**
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																					**33 J**	**0.19 J**	**28**	**2,200**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.21 J**	**27**	**2,200**
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																					**14 J**	**0.18 J**	**16 J**	**1,300**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<100	**0.19 J**	**16**	**1,600**
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																					**120**	**0.23 J**	**26**	**1,700**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.24 J**	**25**	**1,700**
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																					**74**	**0.19 J**	**25**	**1,800**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.18 J**	**25**	**1,700**
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																					**30 J**	**0.26 J**	**27**	**1,900**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.31 J**	**27**	**2,000**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015																					**210**	NS	NS	NS
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	NS	**5.2 J**	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016																					**140**	NS	NS	NS
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	NS	**29 J**	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016																					**420**	NS	NS	NS
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	NS	**8.3 J**	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017																					**29 J**	NS	NS	NS
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	NS	**9.3 J**	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017																					**280**	NS	NS	NS
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	NS	**5.4 J**	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018																					**16**	NS	NS	NS
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	NS	**3.5 J**	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018																					**33**	NS	NS	NS
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	NS	**4.6**	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019																					**66**	NS	NS	NS
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	NS	**3.3 J**	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019																					<8.0	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020																					19	NS	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020																					**17**	NS	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8	NS	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020																					**29**	NS	NS	NS
MW-1	W-R2330026-110620-KRM-023	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.29 J**	**14**	**900**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.51 J**	**1.5 J**	**220**
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																					**120**	**0.28 J**	**3.9 J**	**300**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.2 J**	**0.40 J**	**3.8 J**	**320**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																					**190**	**0.33 J**	**3.3 J**	**260**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.31 J**	**3.7 J**	**300**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																					**450**	**0.22 J**	**0.76 J**	**130**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**89 J**	**0.24 J**	**0.62 J**	**150 J**
MW-3[A]	W-R2330012-091514-ACN-001	9/15/2014																					**610**	**0.27 J**	**4.1 J**	**310**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.4 J**	**0.30 J**	**3.4 J**	**370**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																					**820**	**0.24 J**	**2.7 J**	**340**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.21 J**	**2.2 J**	**350**
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																					**260**	**0.28 J**	**2.8 J**	**290**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.41 J**	**1.7 J**	**370**
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																					**240**	NS	NS	NS
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	NS	**10 J**	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																					**85**	NS	NS	NS
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	NS	**4.8 J**	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016																					**48 J**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017																					**430**	NS	NS	NS
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	NS	**7.1 J**	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017																					**370**	NS	NS	NS
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	NS	**7.3 J**	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017																					**78**	NS	NS	NS
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	NS	**4.6 J**	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018																					**470**	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

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

			Metals															
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			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	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	<1.0	<1.0	**1.1 J**	**2.8 J**	**1.3 J**	<0.005	**17,000**	<3.0	<50	**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	<1.0	**0.17 J**	**1.5 J**	**3.4 J**	**3.3 J**		**25,000**	**0.25 J**	<50	**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	<1.0	**0.10 J**	**1.3 J**	**3.7 J**	**1.2 J**	<0.005	**25,000**	**0.076 J**	<50	**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	<1.0	<1.0	**2.0 J**	**3.1 J**	**0.62 J**		**21,000**	**0.17 J**	<50	**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	<1.0	**0.12 J**	**2.5 J**	**3.7 J**	<4.0	**0.0044 J**	**21,000**	<3.0	<50	**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	**0.15 J**	<1.0	**0.78 J**	**2.6 J**	**2.4 J**		**17,000**	**0.13 J**	<50	**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	**0.19 J**	**0.18 J**	**2.7 J**	**3.0 J**	**2.0 J**	**6.7 J**	**18,000**	<3.0	<50	**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	<1.0	**0.062 J**	**1.6 J**	**1.9 J**	**0.55 J**		**18,000**	<3.0	<50	**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	<1.0	<1.0	**1.2 J**	**2.0 J**	<4.0	**3.9 J**	**17,000**	<3.0	<50	**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	<1.0	<1.0	**1.4 J**	**2.0 J**	**0.17 J**		**18,000**	<3.0	<50	**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	<1.0	<1.0	**1.4 J**	**1.8 J**	<4.0	**4.6 J**	**17,000**	<3.0	<50	**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	<1.0	<1.0	**1.3 J**	**2.3 J**	**1.1 J**		**21,000**	<3.0	<50	**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	<1.0	<1.0	**1.3 J**	**2.2 J**	**0.50 J**	<5.0	**21,000**	<3.0	<50	**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		**23,000**	NS	**160,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	**23,000**	NS	**160,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS		**15,000**	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**57**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**57**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**42 J**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**42 J**	<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	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**41 J**	<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	**14,000**	NS	NS	**73**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**60**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**48**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**48**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-110620-KRM-023	11/6/2020	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<1.0	<1.0	**1.1 J**	**4.2 J**	**0.39 J**		**9,300**	**0.12 J**	<50	**86**	<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	<1.0	**0.047 J**	**0.86 J**	**1.5 J**	**3.2 J**	<0.005	**2,000**	**0.11 J**	<50	**67**	<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	<1.0	**0.11 J**	**0.84 J**	**0.95 J**	**5.4**		**4,000**	**0.24 J**	<50	**44 J**	<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	<1.0	**0.063 J**	**4.5 J**	**1.9 J**	**3.5 J**	<0.005	**4,000**	<3.0	<50	**46 J**	<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	<1.0	<1.0	**1.1 J**	**1.0 J**	**2.1 J**		**3,800**	**0.30 J**	<50	**38 J**	<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	<1.0	<1.0	**0.46 J**	**1.3 J**	**1.3 J**	<0.005	**3,900**	<3.0	<50	**36 J**	<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	<1.0	<1.0	**0.48 J**	**0.84 J**	**2.6 J**		**2,000**	**0.79 J**	<50	**33 J**	**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	<1.0	<1.0	<10	**1.5 J**	**2.1 J**	<0.005	**1,400**	**0.079 J**	<50	**23 J**	**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	**0.23 J**	<1.0	**0.97 J**	**1.5 J**	**3.0 J**		**4,900**	**0.63 J**	<50	**130**	<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	<1.0	<1.0	**0.35 J**	**1.9 J**	**2.4 J**	NS	**4,700**	<3.0	<50	**110**	<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	<1.0	<1.0	**1.5 J**	**1.5 J**	**3.5 J**		**5,200**	**0.98 J**	<50	**74**	<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	<1.0	<1.0	**0.32 J**	**1.3 J**	**2.2 J**	<5.0	**4,400**	<3.0	<50	**66**	<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	<1.0	**0.11 J**	**0.75 J**	**0.74 J**	**2.4 J**		**4,600**	<3.0	<50	**37 J**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<1.0	**0.11 J**	**0.48 J**	**1.3 J**	**2.1 J**	<5.0	**5,000**	<3.0	<50	**39 J**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS		**11,000**	NS	**120,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	**11,000**	NS	**120,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS		**1,800**	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**14 J**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	**5,200**	ND	NS	**140**	<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	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**140**	<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	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**260**	<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	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**	<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	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**250**	<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	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**	<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	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**93**	<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	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**88**	<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	**3,100**	NS	NS	**240**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinta}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																								
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020																								
MW-3	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330026-110520-KRM-018	11/5/2020																								
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																								
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020																								
MW-4	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																								

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)																					
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IVSSL}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
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	NS	**28**	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018																					**37**	NS	NS	NS
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	NS	**12**	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019																					**1,900**	NS	NS	NS
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	NS	**6.4 J**	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019																					**17**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																					<8.0	NS	NS	NS
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020																					**2,700**	NS	NS	NS
MW-3	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-3[A (DUP)]	W-R2330026-110520-KRM-018	11/5/2020																					**6,100**	NS	NS	NS
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**48**	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.6 J**	**0.097 J**	**1.4 J**	**470**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.14 J**	**1.2 J**	**480**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.21 J**	<5.0	**410**
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																					**4.5 J**	**0.22 J**	<5.0	**480**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**170**	**0.12 J**	<5.0	**490**
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																					**490**	**0.23 J**	**1.7 J**	**460**
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.19 J**	**1.1 J**	**460**
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																					**2,800**	**0.40 J**	**5.1**	**480**
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.0 J**	**0.23 J**	**2.9 J**	**450**
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																					**500**	**0.35 J**	**2.8 J**	**430**
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.5 J**	**0.37 J**	**2.5 J**	**410**
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																					**3,100**	**0.33 J**	**2.3 J**	**500**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.1 J**	**0.23 J**	**0.97 J**	**450**
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015																					**84**	NS	NS	NS
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	NS	**2.6 J**	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																					**81**	NS	NS	NS
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	NS	**7.1 J**	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																					**210**	NS	NS	NS
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	NS	**10 J**	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																					**21 J**	NS	NS	NS
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	NS	**7.4 J**	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																					**28**	NS	NS	NS
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	NS	**6.6 J**	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																					**33**	NS	NS	NS
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	NS	**8**	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																					**36**	NS	NS	NS
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	NS	**5**	NS	NS	NS
MW-4[A (DUP)]	W-R2330025-050319-ADH-023	5/3/2019																					**82**	NS	NS	NS
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	NS	**15**	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																					**85**	NS	NS	NS
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	NS	**16**	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019																					**8.6 J**	NS	NS	NS
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	NS	**<8.0**	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																					**47**	NS	NS	NS
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020																					**10**	NS	NS	NS
MW-4	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.17 J**	**31**	**1,300**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.27 J**	**31**	**1,300**
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																					**330**	**2.2 J**	**34**	**1,500**
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.27 J**	**31**	**1,400**
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																					**420**	**0.26 J**	**40**	**1,400**
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.20 J**	**38**	**1,300**
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																					**1,100**	**0.50 J**	**40**	**1,300**
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<2.0	**0.25 J**	**31**	**1,200**
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																					**280**	**0.20 J**	**33**	**1,400**
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.4 J**	**0.19 J**	**32**	**1,400**
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																					**360**	**0.24 J**	**34**	**1,400**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.29 J**	**30**	**1,500**
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015																					**3,100**	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IS-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	**7,500**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**300**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**220**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	**5,800**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	**8,600**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-3[A (DUP)]	W-R2330026-110520-KRM-018	11/5/2020	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<1.0	<1.0	**1.1 J**	**1.2 J**	<4.0	<0.005	**14,000**	<3.0	<50	**56**	<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	<1.0	<1.0	**0.85 J**	**1.3 J**	**0.26 J**	<0.005	**15,000**	**0.034 J**	<50	**55**	<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	<1.0	<1.0	**0.84 J**	**2.7 J**	<4.0	<0.005	**11,000**	<3.0	<50	**490**	<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	<1.0	**0.29 J**	**0.80 J**	**2.4 J**	**2.7 J**		**16,000**	<3.0	<50	**77**	<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	<1.0	**0.29 J**	**1.4 J**	**1.5 J**	**2.6 J**	<0.005	**16,000**	**0.30 J**	<50	**80**	<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	<1.0	<1.0	**2.9 J**	**2.2 J**	**1.4 J**		**16,000**	**1.2 J**	<50	**96**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<1.0	**0.34 J**	**0.78 J**	**2.0 J**	**0.65 J**	<0.005	**15,000**	<3.0	<50	**70**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014	**0.095 J**	<1.0	**4.5 J**	**5.7 J**	**9.6 J**		**20,000**	**7.5**	<50	**700**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<1.0	<1.0	**0.37 J**	**2.4 J**	**2.0 J**	**3.4 J**	**15,000**	<3.0	<50	**410**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014	<1.0	<1.0	**1.3 J**	**2.0 J**	**1.9 J**		**14,000**	**0.71 J**	<50	**110**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<1.0	<1.0	**0.54 J**	**1.8 J**	**0.95 J**	<5.0	**12,000**	<3.0	<50	**100**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015	<1.0	<1.0	**4.7 J**	**3.4 J**	**7.8**		**20,000**	**4.4**	<50	**140**	<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	<1.0	<1.0	**0.55 J**	**1.7 J**	**1.1 J**	<5.0	**16,000**	<3.0	<50	**69**	<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	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**	NS	<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	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS	<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	NS	NS	NS	NS	NS		**15,000**	NS	NS	**490**	<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	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**560**	<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	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**72**	<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	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**	<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	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**760**	<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	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS	**730**	<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	**16,000**	NS	NS	**62**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**60**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**680**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**690**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**71**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**69**	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	**3,300**	NS	NS	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**740**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**730**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**540**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS	**540**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**83**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**86**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<1.0	<1.0	**1.5 J**	**2.3 J**	<4.0	<0.005	**5,300**	**0.3 J**	<50	**56**	<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	<1.0	<1.0	**1.9 J**	**2.3 J**	<4.0	<0.005	**5,400**	**0.061 J**	<50	**58**	<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	<1.0	**0.84 J**	**2.1 J**	**2.3 J**	**3.5 J**		**5,300**	**2.1 J**	<50	**56**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<1.0	**0.16 J**	**1.6 J**	**3.1 J**	**2.1 J**	<0.005	**4,300**	**0.069 J**	<50	**50**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013	<1.0	**0.98 J**	**2.6 J**	**2.6 J**	**3.5 J**		**6,500**	**4.9 J**	<50	**81 J**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<1.0	**0.57 J**	**2.9 J**	**2.6 J**	<4.0	**0.0016**	**5,900**	<3.0	<50	**71 J**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014	**0.25 J**	**0.49 J**	**3.3 J**	**3.1 J**	**8.0 J**		**8,100**	**12 J**	<50	**93**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<1.0	<1.0	**0.61 J**	**2.6 J**	**1.0 J**	**2.6 J**	**4,500**	**0.34**	<50	**57**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014	<1.0	**2.1**	**1.7 J**	**2.0 J**	**0.86 J**		**5,500**	**1.4 J**	<50	**79**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<1.0	**0.026 J**	**1.7 J**	**1.9 J**	<4.0	<5.0	**5,000**	**2.4 J**	<50	**73**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015	<1.0	**5.3**	**2.2 J**	**2.4 J**	**3.9 J**		**6,200**	**2.3 J**	<50	**81**	<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	<1.0	<1.0	**1.3 J**	**2.6 J**	**0.98 J**	<5.0	**5,200**	<3.0	<50	**73**	<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	NS	NS	NS	NS	NS		**13,000**	NS	**150,000**	NS	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.8 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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																								
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020																								
MW-5	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020																								
MW-5	W-R2330026-110620-KRM-021	11/6/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020																								
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020																								
MW-6	W-R2330026-110520-KRM-013	11/5/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																								

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)																			Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{Vi,res}$) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
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	NS	**150**	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016																					**2,800**	NS	NS	NS
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	NS	**140**	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016																					**860**	NS	NS	NS
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	NS	**30 J**	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016																					**400**	NS	NS	NS
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	NS	**12 J**	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017																					**30 J**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017																					**890**	NS	NS	NS
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	NS	**4.9 J**	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018																					**590**	NS	NS	NS
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	NS	**15**	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019																					**700**	NS	NS	NS
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	NS	**7.0 J**	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019																					**100**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020																					**150**	NS	NS	NS
MW-5	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020																					**400**	NS	NS	NS
MW-5	W-R2330026-110620-KRM-021	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.16 J**	**9.4**	**580**
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.5 J**	**0.15 J**	**3.7 J**	**480**
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																					**47 J**	**0.11 J**	**6.0**	**540**
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.8 J**	**0.15 J**	**5.5**	**550**
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																					**200 J**	**0.16 J**	**5.4 J**	**520**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<10	<5.0	<10	**0.47 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**160**	**0.14 J**	**5.5 J**	**520**
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																					**76**	**0.15 J**	**3.0 J**	**460**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.6 J**	**0.17 J**	**3.4 J**	**460**
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																					**320**	**0.17 J**	**4.5 J**	**570**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.6 J**	**0.17 J**	**4.8 J**	**540**
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																					**300**	**0.35 J**	**3.1 J**	**430**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.41 J**	**1.9 J**	**360**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015																					**30 J**	NS	NS	NS
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	NS	**7.7 J**	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016																					**100**	NS	NS	NS
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	NS	**7.5 J**	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016																					**76**	NS	NS	NS
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	NS	**7 J**	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017																					**83**			
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	NS	**5.1 J**			
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017																					**550**	NS	NS	NS
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	NS	**6.1 J**	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017																					**140**	NS	NS	NS
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	NS	**4.9 J**	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018																					**32**	NS	NS	NS
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	NS	**4.3 J**	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018																					**U**	NS	NS	NS
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	NS	**21**	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018																					**5.1**	NS	NS	NS
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	NS	**7.7**	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019																					**430**	NS	NS	NS
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	NS	**9.4 J**	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019																					**8.9 J**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020																					**54**	NS	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020																					**1,400**	NS	NS	NS
MW-6	W-R2330026-110520-KRM-013	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.4 J**	**0.84 J**	**0.87 J**	**450**
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																					**39 J**	**0.39 J**	**18**	**520**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.48 J**	**17**	**520**
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																					**21 J**	**0.58 J**	**7.0 J**	**370**

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															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ss-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	**6,400**	NS	**140,000**	NS	<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	NS	NS	NS	NS	NS		**12,000**	NS	NS	**150**	<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	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**58**	<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	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**79**	<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	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**52**	<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	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS	**72**	<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	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**50**	<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	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**56**	<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	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**50**	<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	**5,600**	NS	NS	**76**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**62**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS	**440**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**87**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**77**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**76**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**99**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	**5,400**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330026-110620-KRM-021	11/6/2020	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<1.0	<1.0	**1.0 J**	**2.4 J**	**0.31 J**	<0.005	**26,000**	**0.057 J**	<50	**500**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<1.0	<1.0	**1.6 J**	**1.5 J**	<4.0	<0.005	**18,000**	**0.31 J**	<50	**640**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013	<1.0	**0.19 J**	**0.94 J**	**1.9 J**	**4.40**		**22,000**	**0.29 J**	<50	**790**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<1.0	**0.25 J**	**0.75 J**	**2.4 J**	**3.5 J**	<0.005	**21,000**	**0.063 J**	<50	**750**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013	<1.0	**0.25 J**	**1.8 J**	**1.7 J**	**1.4 J**		**18,000**	**0.55 J**	<50	**430**	<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	<1.0	**0.43 J**	**2.2 J**	**1.7 J**	**1.3 J**	<0.005	**18,000**	**0.41 J**	<50	**430**	<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	<1.0	<1.0	**0.56 J**	**2.0 J**	**2.0 J**		**11,000**	**0.31 J**	<50	**410**	<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	<1.0	<1.0	**0.37 J**	**1.4 J**	**1.9 J**	**1.3 J**	**10,000**	<3.0	<50	**410**	<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	<1.0	**0.068 J**	**1.7 J**	**1.1 J**	**0.85 J**		**18,000**	<3.0	<50	**420**	<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	<1.0	<1.0	**0.53 J**	**1.0 J**	<4.0	<5.0	**17,000**	<3.0	<50	**410**	<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	<1.0	**0.098 J**	**1.5 J**	**1.7 J**	**4.1**		**12,000**	**1.1 J**	<50	**500**	<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	<1.0	<1.0	**0.42 J**	**1.5 J**	**2.0 J**	<5.0	**11,000**	<3.0	<50	**470**	<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	NS	NS	NS	NS	NS		**22,000**	NS	**130,000**	NS	<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	NS	NS	NS	NS	NS	NS	**22,000**	NS	**130,000**	NS	<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	NS	NS	NS	NS	NS		**5,800**	NS	NS	**320**	<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	**6,300**	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**500**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**490**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017							**3,600**	NS	NS	**960**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-042817-AFB-033	4/28/2017							**3,300**	NS	NS	**910**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**410**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS	**360**	<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	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS	**370**	<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	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**370**	<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	**560**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	**U**	NS	NS	**U**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**420**	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	**11,000**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**410**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**740**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	**500**	NS	NS	**660**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	**9,500**	NS	NS	**380**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**380**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	**840**	NS	NS	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**700**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-110520-KRM-013	11/5/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**570**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<1.0	<1.0	**1.4 J**	**3.4 J**	**2.1 J**	<0.005	**3,400**	**0.074 J**	<50	**530**	<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	<1.0	**0.43 J**	**1.4 J**	**3.8 J**	**2.2 J**		**8,100**	**0.47 J**	<50	**910**	<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	<1.0	**0.21 J**	**1.2 J**	**4.3 J**	**3.1 J**	<0.005	**7,700**	**0.096 J**	<50	**880**	<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	<1.0	**1.2 J**	**1.3 J**	**3.6 J**	**2.4 J**		**5,700**	**0.31 J**	<50	**490**	<0.2	**10 J**	<5.0	<0.20	<2.0	**0.85 J**	**5.8 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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																								
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020																								
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020																								
MW-7	W-R2330026-110920-KRM-026	11/9/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-8[A]	W-R2330026-110920-KRM-027	11/9/2020																								
MW-8	W-R2330026-110920-KRM-027	11/9/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10

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)																					
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<10	<5.0	<10	**0.18 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.57 J**	**6.4 J**	**380**
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																					**11 J**	**0.18 J**	**3.5 J**	**330**
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.6 J**	**0.16 J**	**3.4 J**	**370**
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																					**20 J**	**0.18 J**	**4.5 J**	**420**
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.4 J**	**0.18 J**	**3.2 J**	**420**
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																					**130**	**0.21 J**	**2.9 J**	**320**
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.1 J**	**0.26 J**	**2.4 J**	**330**
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015																					**69**	NS	NS	NS
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	NS	**35 J**	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016																					**6.6 J**	NS	NS	NS
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	NS	**2.0 J**	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016																					**23 J**	NS	NS	NS
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	NS	**7.9 J**	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017																					**66**	NS	NS	NS
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	NS	**4.3 J**	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017																					**17**	NS	NS	NS
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	NS	**4.3 J**	NS	NS	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018																					**30**	NS	NS	NS
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	NS	**4.6 J**	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018																					**62**	NS	NS	NS
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	NS	**5.8**	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019																					**67**	NS	NS	NS
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	NS	**4.5 J**	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019																					**10**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020																					**16**	NS	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020																					**12**	NS	NS	NS
MW-7	W-R2330026-110920-KRM-026	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.4 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.21 J**	**1.2 J**	**380**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																					**51**	**0.16 J**	**4.1 J**	**470**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	**0.20 J**	**3.9 J**	**460**
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																					**98 J**	**0.12 J**	**3.7 J**	**420**
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.13 J**	**3.6 J**	**440**
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																					**1,200**	**0.11 J**	**4.7 J**	**370**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	<2.0	**3.3 J**	**350**
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																					**440**	<2.0	**2.0 J**	**330**
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.18 J**	**1.3 J**	**330**
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																					**540**	NS	NS	NS
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	NS	**15 J**	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																					**140**	NS	NS	NS
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	NS	**3.2 J**	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016																					**50 J**	NS	NS	NS
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	NS	**8.70**	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017																					**23**	NS	NS	NS
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	NS	<4.2	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018																					**60**	NS	NS	NS
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	NS	**8.8**	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019																					**11**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-8[A]	W-R2330026-110920-KRM-027	11/9/2020																					**95**	NS	NS	NS
MW-8	W-R2330026-110920-KRM-027	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.6 J**	**0.2 J**	**44**	**1,700**
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																					**13 J**	**0.13 J**	**52**	**1,300**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**52**	**1,300**
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																					**43 J**	**0.16 J**	**59**	**2,100**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.17 J**	**60**	**2,200**
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																					**190**	**0.19 J**	**51**	**1,700**
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.15 J**	**47**	**1,900**
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																					**42 J**	**0.18 J**	**59**	**1,800**
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.25 J**	**62**	**1,900**
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																					**260**	**0.19 J**	**49**	**1,700**
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.0 J**	**0.34 J**	**46**	**1,800**

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															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IS-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<1.0	**0.92 J**	**1.3 J**	**4.1 J**	**1.5 J**	**0.0037 J**	**5,600**	<3.0	<50	**480**	<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	<1.0	**0.54 J**	**0.72 J**	**3.8 J**	**7.9**		**8,900**	**0.39 J**	<50	**560**	<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	<1.0	<1.0	<2.0	**3.2 J**	**4.4**	<0.005	**9,600**	<3.0	<50	**530**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014	<1.0	**0.16 J**	**0.98 J**	**2.9 J**	**0.69 J**		**10,000**	<3.0	<50	**690**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<1.0	<1.0	**0.81 J**	**2.5 J**	<4.0	<5.0	**9,400**	<3.0	<50	**670**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015	<1.0	**0.39 J**	**1.1 J**	**3.1 J**	**2.9 J**		**8,500**	**0.42 J**	<50	**440**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<1.0	<1.0	**0.87 J**	**3.2 J**	**1.6 J**	<5.0	**8,600**	<3.0	<50	**450**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS		**7,500**	NS	**150,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	**7,600**	NS	**150,000**	NS	<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	NS	NS	NS	NS	NS		**11,000**	NS	NS	**500**	<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	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**470**	<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	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**340**	<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	NS	NS	NS	NS	NS	NS	**7,600**	NS	NS	**320**	<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	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS	**490**	<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	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**470**	<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	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**760**	<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	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS	**740**	<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	**7,200**	NS	NS	**610**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS	**600**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**1,000**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	**8,200**	NS	NS	**950**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**670**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**690**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**1,100**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	**7,700**	NS	NS	**1,000**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**790**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**820**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020	NS	NS	NS	NS	NS	NS	**7,700**	NS	NS	**730**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-110920-KRM-026	11/9/2020	NS	NS	NS	NS	NS	NS	**7,600**	NS	NS	**760**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<1.0	<1.0	**0.56 J**	**1.5 J**	<4.0	<0.005	**6,200**	<3.0	<50	**180**	<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	<1.0	**0.12 J**	**1.2 J**	**1.5 J**	**3.8 J**		**8,200**	**0.80 J**	<50	**200**	<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	<1.0	**0.098 J**	**0.94 J**	**2.3 J**	**1.6 J**	<0.005	**8,100**	**0.074 J**	<50	**200**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	<1.0	**0.50 J**	**1.3 J**	**1.6 J**	**1.6 J**		**7,700**	**0.34 J**	<50	**200**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<1.0	**0.49 J**	**2.0 J**	**1.8 J**	**1.5 J**	**0.0015 J**	**7,500**	<3.0	<50	**210**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	<1.0	**2.1**	**2.7 J**	**2.4 J**	**4.7**		**8,000**	**4.7**	<50	**400**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<1.0	<1.0	**0.34 J**	**1.3 J**	**0.50 J**	<5.0	**4,900**	<3.0	<50	**330**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	<1.0	**0.73 J**	**3.2 J**	**1.2 J**	**2.7 J**		**7,100**	**1.9 J**	<50	**210**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<1.0	<1.0	**0.47 J**	**1.3 J**	**1.5 J**	<5.0	**5,900**	<3.0	<50	**200**	<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	NS	NS	NS	NS	NS		**3,300**	NS	**92,000**	NS	<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	NS	NS	NS	NS	NS	NS	**2,300**	NS	**91,000**	NS	<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	NS	NS	NS	NS	NS		**6,500**	NS	NS	**200**	<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	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS	**200**	<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	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS	**2,800**	<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	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**290**	<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	**7,000**	NS	NS	**310**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	**6,600**	NS	NS	**320**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**1.8**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	**8,400**	NS	NS	**440**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	**8,700**	NS	NS	**330**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**330**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330026-110920-KRM-027	11/9/2020	NS	NS	NS	NS	NS	NS	**8,700**	NS	NS	**300**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330026-110920-KRM-027	11/9/2020	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<1.0	<1.0	**1.9 J**	**2.4 J**	**0.71 J**	<0.005	**28,000**	**0.053 J**	<50	**760**	<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	<1.0	**0.22 J**	**1.0 J**	**1.4 J**	**2.1 J**		**31,000**	**0.17 J**	<50	**440**	<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	<1.0	**0.24 J**	**0.91 J**	**2.2 J**	**1.7 J**	<0.005	**30,000**	**0.068 J**	<50	**430**	<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	<1.0	<1.0	**2.0 J**	**1.7 J**	<4.0		**30,000**	**0.30 J**	<50	**400**	<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	<1.0	<1.0	**1.0 J**	**1.7 J**	<4.0	<0.005	**29,000**	**0.083 J**	<50	**340**	<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	<1.0	<1.0	**1.0 J**	**2.2 J**	**2.6 J**		**34,000**	**0.99 J**	<50	**600**	<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	<1.0	<1.0	**0.70 J**	**2.2 J**	**1.4 J**	**2.1 J**	**34,000**	**0.21 J**	<50	**570**	<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	<1.0	**0.050 J**	**1.0 J**	**1.2 J**	<4.0		**31,000**	<3.0	<50	**330**	<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	<1.0	<1.0	**1.0 J**	**1.4 J**	<4.0	<5.0	**30,000**	<3.0	<50	**300**	<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	<1.0	**0.094 J**	**1.4 J**	**2.0 J**	**3.9 J**		**34,000**	**1.1 J**	<50	**390**	<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	<1.0	<1.0	**0.83 J**	**1.9 J**	**1.4 J**	<5.0	**33,000**	<3.0	<50	**370**	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.8 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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinter}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020																							
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020																							
MW-9	W-R2330026-110620-KRM-024	11/6/2020	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<.74	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	<0.52	<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	<0.81	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	<0.52	<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	<0.81	NS	NS	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020																							
MW-10	W-R2330026-052720-KRM-039	5/27/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.7**	<0.49	<0.49	**25**	<0.68	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45	<0.81	NS	NS	NS	NS
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020																							
MW-10	W-R2330026-110620-KRM-022	11/6/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.9**	<0.49	<0.49	**25**	<0.68	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45	<0.81	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)																			Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015																					**510**	NS	NS	NS
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	NS	**7.9 J**	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016																					**110**	NS	NS	NS
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	NS	**8.6 J**	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016																					**270**	NS	NS	NS
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	NS	**7.3 J**	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017																					<50	NS	NS	NS
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	NS	**18 J**	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017																					**55**	NS	NS	NS
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	NS	**5.4 J**	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018																					**12**	NS	NS	NS
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	NS	**5.9 J**	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018																					**130**	NS	NS	NS
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	NS	**15**	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019																					**37**	NS	NS	NS
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	NS	**3.2 J**	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019																					<8.0	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020																					<8.0	NS	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020																					**140**	NS	NS	NS
MW-9	W-R2330026-110620-KRM-024	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<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**	<1.0	**1.1 J**	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.19 J**	**7.4**	**1,800**
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																					**26 J**	**0.27 J**	**6.5**	**1,700**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.1 J**	**0.31 J**	**6.7**	**1,800**
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																					**25 J**	**0.26 J**	**6.7**	**1,700**
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.25 J**	**6.4**	**1,700**
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																					**26 J**	**0.24 J**	**10**	**1,900**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.23 J**	**9.7 J**	**1,900**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																					**26 J**	**0.23 J**	**10**	**1,900**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.8 J**	**0.20 J**	**9.2 J**	**1,900**
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																					**32 J**	**0.20 J**	**6.6 J**	**1,700**
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.0 J**	**0.22 J**	**6.5 J**	**1,700**
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																					**45 J**	**0.23 J**	**7.1 J**	**1,800**
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**6.8 J**	**1,700**
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																					**21 J**	**0.23 J**	**7.1**	**2,100**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.2 J**	**0.22 J**	**8.4**	**2,100**
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																					**24 J**	**0.29 J**	**7.3**	**2,500**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.26 J**	**7.0**	**2,300**
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																					**26 J**	**0.21 J**	**6.6**	**2,300**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.24 J**	**7.2**	**2,400**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																					**31 J**	NS	NS	NS
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																					**190**	NS	NS	NS
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																					**32 J**	NS	NS	NS
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																					**110**	NS	NS	NS
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																					**37**	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018																					**75**	NS	NS	NS
MW-10	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	NS	**7.3 J**	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018																					**29**	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019																					**150**	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019																					**18**	NS	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.3**	NS	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020																					**27**	NS	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020																					**94**	NS	NS	NS
MW-10	W-R2330026-110620-KRM-022	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{I-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS		**33,000**	NS	**120,000**	NS	<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	**32,000**	NS	**130,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS		**28,000**	NS	NS	**500**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	**33,000**	NS	NS	**540**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**230**	<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	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**220**	<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	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**220**	<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	**30,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	**29,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**98**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS	**270**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-110620-KRM-024	11/6/2020	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<1.0	<1.0	**1.8 J**	**2.6 J**	<4.0	<0.005	**17,000**	**0.054 J**	<50	**350**	<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	<1.0	**0.29 J**	**2.2 J**	**3.1 J**	**3.4 J**		**17,000**	**7.3**	<50	**600**	<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	<1.0	**0.22 J**	**2.0 J**	**3.5 J**	**2.7 J**	<0.005	**17,000**	**2.4 J**	<50	**600**	<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	<1.0	**0.40 J**	**2.0 J**	**3.1 J**	3.4 J		**17,000**	**7.2**	<50	**580**	<0.2	**3.3 J**	**0.83 J**	<0.20	**0.098 J**	**0.28 J**	<50.0
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<1.0	**0.27 J**	**2.0 J**	**3.1 J**	**2.4 J**	<0.005	**17,000**	**2.7 J**	<50	**600**	**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	<1.0	**1.7 J**	**3.7 J**	**3.3 J**	**1.8 J**		**2,300**	**2.8 J**	<50	**460**	**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	<1.0	**1.4 J**	**2.7 J**	**3.8 J**	**1.1 J**	**0.0019 J**	**2,100**	**0.16 J**	<50	**480**	<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	<1.0	**1.7 J**	**2.9 J**	**3.4 J**	**1.4 J**		**2,300**	**2.8 J**	<50	**450**	<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	<1.0	**1.7 J**	**2.6 J**	**3.4 J**	**1.1 J**	**0.0023 J**	**2,100**	**0.18 J**	<50	**470**	<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	<1.0	<1.0	**1.6 J**	**3.0 J**	**1.9 J**		**24,000**	**1.6 J**	<50	**550**	<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	<1.0	<1.0	**0.79 J**	**2.5 J**	**3.3 J**	**2.4 J**	**24,000**	**0.14 J**	<50	**540**	NS	NS	NS	NS	NS	NS	NS
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<1.0	<1.0	**1.6 J**	**2.9 J**	**1.5 J**		**25,000**	**1.7 J**	<50	**550**	NS	NS	NS	NS	NS	NS	NS
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<1.0	<1.0	<10	**3.0 J**	**1.1 J**	**4.1 J**	**23,000**	**0.14 J**	<50	**530**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	<1.0	**0.034 J**	**2.3 J**	**2.2 J**	<4.0		**22,000**	**2.2 J**	<50	**420**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<1.0	<1.0	**2.3 J**	**2.4 J**	<4.0	<5.0	**23,000**	<3.0	<50	**430**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	<1.0	**0.028 J**	**2.5 J**	**2.3 J**	**0.51 J**		**23,000**	**2.5 J**	<50	**450**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.40 J**	<5.0	**22,000**	<3.0	<50	**420**	<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	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.65 J**		**21,000**	**2.1 J**	<50	**420**	<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	<1.0	<1.0	**2.6 J**	**2.7 J**	**0.27 J**	<5.0	**23,000**	**0.36 J**	<50	**430**	<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	NS	NS	NS	NS	NS		**22,000**	NS	**160,000**	NS	<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	NS	NS	NS	NS	NS	NS	**22,000**	NS	**160,000**	NS	<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	NS	NS	NS	NS	NS		**22,000**	NS	NS	**420**	<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	NS	NS	NS	NS	NS	NS	**27,000**	NS	NS	**470**	<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	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**420**	<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	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS	**430**	<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	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**430**	<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	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**410**	<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	**18,000**	NS	NS	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**470**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**450**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**550**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**570**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**500**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**500**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-110620-KRM-022	11/6/2020	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**530**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	<3.0	**0.56 J**	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	<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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020																								
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020																								
MW-11	W-R2330026-110620-KRM-020	11/6/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																								

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)																					
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IVcres}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.6 J**	**0.13 J**	<5.0	**26**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																					**22 J**	**0.079 J**	<5.0	**57 J**
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.12 J**	<5.0	**61 J**
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																					**730**	**0.66 J**	**1.0 J**	**38 J**
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**22 J**	**0.30 J**	**0.65 J**	**47 J**
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																					**180**	**0.12 J**	<5.0	**38 J**
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.4 J**	**0.096 J**	<5.0	**47 J**
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																					**26 J**	**0.10 J**	**1.2 J**	**72 J**
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.7 J**	**0.15 J**	**1.1 J**	**75 J**
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																					**47 J**	<2.0	<5.0	**58 J**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	<2.0	**0.65 J**	**69 J**
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																					**65**	<2.0	<5.0	**20 J**
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.17 J**	<5.0	**20 J**
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																					**17 J**	NS	NS	NS
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	NS	**2.7 J**	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																					**390**	NS	NS	NS
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	NS	**7.7 J**	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201																					**350**	NS	NS	NS
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	NS	**7.8 J**	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																					**93**	NS	NS	NS
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	NS	**5.3 J**	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																					**69**	NS	NS	NS
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	NS	**4.6 J**	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																					**20**	NS	NS	NS
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	NS	**3.7 J**	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																					**1,500**	NS	NS	NS
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	NS	**10**	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																					**660**	NS	NS	NS
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	NS	<2.6	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019																					**23**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020																					**60**	NS	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020																					**12**	NS	NS	NS
MW-11	W-R2330026-110620-KRM-020	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.2 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.22 J**	**1.4 J**	**1,100**
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																					**170**	**0.15 J**	**1.2 J**	**1,400**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.26 J**	**0.93 J**	**1,500**
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																					**89**	**0.16 J**	**0.79 J**	**1,600**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.16 J**	**0.85 J**	**1,500**
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																					**61**	**0.18 J**	**0.82 J**	**1,200**
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.9 J**	**0.19 J**	<5.0	**1,300**
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																					**1,200**	**0.31 J**	**2.7 J**	**1,600**
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.22 J**	<5.0	**1,600**
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																					**1,000**	**0.31 J**	**1.4 J**	**1,800**
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.1 J**	**0.58 J**	<5.0	**1,500**
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015																					**340**	NS	NS	NS
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	NS	**7.2 J**	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015																					**380**	NS	NS	NS
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	NS	**7.2 J**	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016																					**60**	NS	NS	NS
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	NS	**13 J**	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016																					**150**	NS	NS	NS
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	NS	**27 J**	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017																					**36 J**	NS	NS	NS
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	NS	**12 J**	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017																					**530**	NS	NS	NS
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	NS	**8.8 J**	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017																					**410**	NS	NS	NS
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	NS	**6.7 J**	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018																					**21**	NS	NS	NS
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	NS	**14**	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018																					**210**	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

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

			Metals															
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			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IS-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<1.0	<1.0	**0.69 J**	**0.41 J**	**0.76 J**	<0.005	**13 J**	**0.0079 J**	<50	**7.4 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013	<1.0	<1.0	**0.49 J**	**0.51 J**	**2.7 J**		**270**	<3.0	<50	**58**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<1.0	<1.0	**0.53 J**	**0.93 J**	**2.0 J**	<0.005	**270**	<3.0	<50	**61**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013	<1.0	<1.0	**3.1 J**	**1.2 J**	**3.0 J**		**1,600**	**1.3 J**	<50	**75**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<1.0	<1.0	**0.40 J**	**0.91 J**	**0.82 J**	<0.005	**150 J**	<3.0	<50	**60**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014	<1.0	<1.0	**0.55 J**	**0.74 J**	**1.5 J**		**380**	**0.37 J**	<50	**52**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<1.0	<1.0	<10	**0.80 J**	**0.96 J**	<0.005	**110 J**	<3.0	<50	**54**	<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	<1.0	**0.047 J**	<10	**0.57 J**	**0.76 J**		**500**	<3.0	<50	**68**	<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	<1.0	<1.0	<10	**1.1 J**	**1.4 J**	NS	**500**	<3.0	<50	**68**	**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	<1.0	**0.087 J**	**0.23 J**	**0.67 J**	**4.3**		**220**	<3.0	<50	**110**	**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	<1.0	**0.052 J**	<10	**0.67 J**	**1.1 J**	<5.0	**320**	<3.0	<50	**96**	**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	<1.0	**0.39 J**	**2.5 J**	**0.30 J**	**1.2 J**		**110 J**	<3.0	<50	**130**	**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	<1.0	**0.29 J**	**0.16 J**	**0.47 J**	**0.78 J**	<5.0	<200	<3.0	<50	**4.8 J**	<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	NS	NS	NS	NS	NS		**480**	NS	**29,000**	NS	<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	NS	NS	NS	NS	NS	NS	**470**	NS	**29,000**	NS	<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	NS	NS	NS	NS	NS		**700**	NS	NS	**310**	<0.2	**3.5 J**	<5.0	<0.20	<2.0	<4.0	**3.2 J**
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	**230**	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**95**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	**17 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	**240**	NS	NS	**160**	<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	**150**	NS	NS	**85**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	<300	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	**2000**	NS	NS	**350**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	**31**	NS	NS	**83**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**420**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	<15	NS	NS	**8.4**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	**1200**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	**890**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	**500**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**57**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020	NS	NS	NS	NS	NS	NS	**2000**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-110620-KRM-020	11/6/2020	NS	NS	NS	NS	NS	NS	**1500**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<1.0	<1.0	**1.9 J**	**4.0 J**	<4.0	<0.005	**15,000**	**0.17 J**	<50	**1,500**	<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	<1.0	**0.27 J**	**1.2 J**	**1.4 J**	**6.1**		**18,000**	**0.36 J**	<50	**470**	**0.030 J**	**79**	**8.0**	**0.17 J**	**1.3 J**	**90**	**200**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<1.0	**0.30 J**	**0.73 J**	**2.4 J**	**3.6 J**	<0.005	**17,000**	**0.062 J**	<50	**420**	<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	**0.13 J**	**0.33 J**	**1.0 J**	**1.5 J**	**1.5 J**		**12,000**	**0.26 J**	<50	**210**	<0.2	**71**	**2.5 J**	**0.16 J**	**0.91 J**	**67**	**170**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<1.0	**0.68 J**	**0.99 J**	**1.9 J**	**1.3 J**	<0.005	**12,000**	<3.0	<50	**190**	<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	<1.0	<1.0	**0.53 J**	**1.9 J**	**3.6 J**		**8,800**	**0.24 J**	<50	**750**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<1.0	<1.0	**0.43 J**	**1.5 J**	**4.6**	**2.2 J**	**9,100**	**0.22 J**	<50	**660**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014	<1.0	**0.090 J**	**2.6 J**	**1.3 J**	**3.9 J**		**14,000**	**1.3 J**	<50	**310**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<1.0	<1.0	**0.55 J**	**0.86 J**	<4.0	<5.0	**12,000**	<3.0	<50	**340**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015	<1.0	<1.0	**2.2 J**	**1.9 J**	**7.6**		**14,000**	**2.2 J**	<50	**170**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<1.0	<1.0	**0.58 J**	**1.4 J**	**1.3 J**	<5.0	**12,000**	<3.0	<50	**140**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS		**12,000**	NS	**130,000**	NS	<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	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS	<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	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**	NS	<0.2	**21**	**1.7 J**	**0.080 J**	<2.0	**24**	**53**
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**	NS	<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	NS	NS	NS	NS	NS		**4,900**	NS	NS	**140**	<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	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS	**160**	<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	**13,000**	NS	NS	**270**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**270**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	**9,400**	NS	NS	**740**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	**9,000**	NS	NS	**740**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**250**	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	**12,000**	NS	NS	**280**	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**420**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**240**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vimp}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020																								
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020																								
MW-12	W-R2330026-110520-KRM-014	11/5/2020	NS	NS	NS	NS	NS	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	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	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																								
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																								
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	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	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020																								
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	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	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	<3.0	<10	<10	<5.0	<10
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	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	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS	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	<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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020																								
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020																								
MW-17	W-R2330026-110920-KRM-028	11/9/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10

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)																			Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
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	NS	**5**	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019																					**610**	NS	NS	NS
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	NS	**17**	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019																					**16**	NS	NS	NS
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	NS	**<8.0**	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019																					**22**	NS	NS	NS
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	NS	**<8.0**	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020																					**38**	NS	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020																					**400**	NS	NS	NS
MW-12	W-R2330026-110520-KRM-014	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019																					**2,000**	NS	NS	NS
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	NS	**12**	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019																					**15**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020																					**28**	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020																					**250**	NS	NS	NS
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019																					**21**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020																					<8.0	NS	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019																					**63**	NS	NS	NS
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	NS	**8.7**	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																					**1,400**	**0.11 J**	**5.6**	**160**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.063 J**	**4.5 J**	**150**
MW-17[A]	W-R2330012-091514-ACN-004	9/15/2014																					**980**	**0.063 J**	**5.8**	**150**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	**0.093 J**	**5.1**	**150**
MW-17[A] (DUP)	W-R2330012-091514-ACN-005	9/15/2014																					**1,200**	**0.071 J**	**6.0**	**150**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	**0.042 J**	**5.3**	**140**
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																					**700**	<2.0	**6.3**	**190**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	**5.8**	**190**
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																					**2,000**	<2.0	**5.1**	**260**
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**9.8 J**	<2.0	**2.7 J**	**240**
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015																					**990**	NS	NS	NS
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	NS	**8.6 J**	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016																					**310**	NS	NS	NS
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	NS	**6.4 J**	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016																					**140**	NS	NS	NS
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	NS	**7 J**	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																					**1,300**	NS	NS	NS
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	NS	**17 J**	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017																					**860**	NS	NS	NS
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	NS	**11**	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018																					**400**	NS	NS	NS
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	NS	**7.4 J**	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018																					**500**	NS	NS	NS
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	NS	**11**	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019																					**200**	NS	NS	NS
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	NS	**7.9 J**	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019																					**780**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020																					**33.0**	NS	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020																					**42**	NS	NS	NS
MW-17	W-R2330026-110920-KRM-028	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																					**5,400**	**0.35 J**	**10**	**400**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**56**	**0.24 J**	**5.1**	**370**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																					**25,000**	**1.0 J**	**46**	**730**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**45 J**	**0.18 J**	**11**	**550**
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																					**28,000**	**1.3 J**	**51**	**740**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	**6.7**	**450**

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															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ch-ss}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**690**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**700**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**280**	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	**13,000**	NS	NS	**300**	NS	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**450**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**490**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330026-110520-KRM-014	11/5/2020	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**280**	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**760**	NS	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**720**	NS	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS	**660**	NS	NS	NS	NS	NS	NS	NS
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS	**720**	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**860**	NS	NS	NS	NS	NS	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**860**	NS	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**460**	NS	NS	NS	NS	NS	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS	**460**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	<1.0	<1.0	**2.4 J**	**0.98 J**	**2.8 J**		**4,200**	**2.2 J**	<50	**210**	<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	<1.0	<1.0	<10	**0.23 J**	<4.0	<0.005	**2,100**	**0.052 J**	<50	**180**	<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	<1.0	**0.056 J**	**1.5 J**	**0.80 J**	**2.2 J**		**3,600**	**1.8 J**	<50	**240**	<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	<1.0	<1.0	<10	**0.65 J**	**0.96 J**	NS	**2,500**	<3.0	<50	**220**	<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	<1.0	<1.0	**2.2 J**	**0.85 J**	**3.2 J**		**3,800**	**1.8 J**	<50	**240**	<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	<1.0	<1.0	**0.50 J**	**0.50 J**	**0.94 J**	NS	**2,500**	<3.0	<50	**230**	<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	<1.0	**0.075 J**	**1.6 J**	**0.61 J**	**1.7 J**		**4,100**	**1.5 J**	<50	**300**	<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	<1.0	<1.0	<10	**0.25 J**	**0.23 J**	<5.0	**3,000**	<3.0	<50	**280**	<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	<1.0	**0.45 J**	**2.9 J**	**1.4 J**	**4.2**		**5,300**	**3.4**	<50	**330**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<1.0	**0.050 J**	**0.14 J**	**0.62 J**	**1.0 J**	<5.0	**2,300**	<3.0	<50	**320**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS		**4,600**	NS	**22,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	**2,600**	NS	**21,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS		**3,600**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**380**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**3,900**	<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	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**410**	<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	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**420**	<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	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**430**	<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	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**440**	<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	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**440**	<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	**4,500**	NS	NS	**510**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**500**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**440**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**450**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**350**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**350**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**320**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-110920-KRM-028	11/9/2020	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**310**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	**0.23 J**	**0.28 J**	**8.8 J**	**5.6 J**	**11**		**13,000**	**6.9**	<50	**600**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330012-052014-ACN-026	5/20/2014	**0.097 J**	**0.16 J**	**0.30 J**	**1.3 J**	<4.0	<0.005	**2,000**	**0.20 J**	<50	**250**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	**1.2**	**1.4**	**48**	**34**	**74**		**72,000**	**52**	<50	**3,800**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<1.0	**0.088 J**	<10	**0.59 J**	**0.21 J**	<5.0	**3,600**	<3.0	<50	**210**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	**0.77 J**	**1.4**	**35**	**25**	**60**		**60,000**	**45**	<50	**2700**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<1.0	**0.041 J**	**0.15 J**	**0.97 J**	**1.5 J**	<5.0	**2,800**	<3.0	<50	**180**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinter}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020																							
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020																							
MW-18	W-R2330026-110920-KRM-029	11/9/2020	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	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	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020																							
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020																							
MW-19	W-R2330026-110920-KRM-030	11/9/2020	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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)																			Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	1.08E+06	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																					**2,200**	NS	NS	NS
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	NS	**22 J**	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																					**2,100**	NS	NS	NS
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	NS	**29 J**	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																					**96**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																					**2,300**	NS	NS	NS
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	NS	**15 J**	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																					**5,100**	NS	NS	NS
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	NS	**23**	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																					**7,500**	NS	NS	NS
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	NS	**64**	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																					**580**	NS	NS	NS
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	NS	**7.1**	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																					**1,300**	NS	NS	NS
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	NS	**120**	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019																					**540**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020																					**2,700**	NS	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**58**	NS	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020																					**7,000**	NS	NS	NS
MW-18	W-R2330026-110920-KRM-029	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																					**1,900**	**0.089 J**	**6.2**	**350**
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**120**	**0.12 J**	**4.5 J**	**320**
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																					**7,900**	**0.49 J**	**14**	**380**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**74**	**0.15 J**	**6.3**	**330**
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																					**1,600**	**0.12 J**	**11**	**510**
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.78 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.14 J**	**5 J**	**540**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																					**4,100**	NS	NS	NS
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	NS	**370**	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																					**1,300**	NS	NS	NS
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	NS	**25 J**	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																					**1,300**	NS	NS	NS
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	NS	**13 J**	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																					**190**	NS	NS	NS
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	NS	**26**	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																					**820**	NS	NS	NS
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	NS	**18 J**	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																					**320**	NS	NS	NS
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	NS	**13**	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																					**740**	NS	NS	NS
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	NS	**61**	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																					**1,600**	NS	NS	NS
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	NS	**25**	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																					**1,200**	NS	NS	NS
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	NS	**22**	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019																					**690**	NS	NS	NS
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	NS	**14**	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020																					**2,700**	NS	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**94**	NS	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020																					**280**	NS	NS	NS
MW-19	W-R2330026-110920-KRM-030	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014																					**1,800**	**0.15 J**	**9.5**	**340**
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**15 J**	**0.065 J**	**5.6**	**330**
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																					**330**	<2.0	**8.8**	**290**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**100**	<2.0	**7.7**	**300**
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																					**1,600**	**0.14 J**	**7.5**	**250**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**64**	**0.13 J**	**5.8**	**260**
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																					**1,600**	**0.13 J**	**7.6**	**250**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**43 J**	<2.0	**6.1**	**250**
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015																					**2,600**	NS	NS	NS
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	NS	**93**	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016																					**46 J**	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ft-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS		**7,200**	NS	**30,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	**2,900**	NS	**25,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS		**4,400**	NS	NS	**220**	<0.2	**23**	**2.7 J**	<0.20	<2.0	**24**	**81**
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**140**	<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	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**180**	<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	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**180**	<0.2	**3.7 J**	<5.0	<0.20	<2.0	<4.0	**23 J**
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**420**	<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	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**150**	<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	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**880**	<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	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**160**	<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	**26,000**	NS	NS	**1700**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**670**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020	NS	NS	NS	NS	NS	NS	**25,000**	NS	NS	**1,500**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-110920-KRM-029	11/9/2020	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**270**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	<1.0	**0.062 J**	**3.5 J**	**1.5 J**	**3.4 J**		**5,300**	**1.6 J**	<50	**350**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<1.0	<1.0	**0.53 J**	**1.1 J**	0.87 J	**1.2 J**	**2,400**	**0.088 J**	<50	**300**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014	**0.34 J**	**0.27 J**	**16**	**6.7 J**	**17**		**16,000**	**9.7**	<50	**560**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<1.0	**0.054 J**	**0.30 J**	**0.93 J**	**0.18 J**	<5.0	**2,000**	<3.0	<50	**350**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015	<1.0	<1.0	**2.8 J**	**1.9 J**	**4.1**		**6,600**	**1.7 J**	<50	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<1.0	<1.0	**0.3 J**	**0.91 J**	**1.8 J**	<5.0	**3,500**	<3.0	<50	**460**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS		**11,000**	NS	**38,000**	NS	<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	NS	NS	NS	NS	NS	NS	**4,400**	NS	**34,000**	NS	<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	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**	<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	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**420**	<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	NS	NS	NS	NS	NS		**5,100**	NS	NS	**450**	<0.2	**25**	**2.8 J**	**0.059 J**	<2.0	**29**	**100**
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**420**	<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	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**360**	<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	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**350**	<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	**5,100**	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**380**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**350**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**420**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**510**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**500**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**390**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**440**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-110920-KRM-030	11/9/2020	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**430**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	<1.0	**0.061 J**	**3.8 J**	**1.6 J**	**5.1**		**9,600**	**2.7 J**	<50	**280**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<1.0	<1.0	**0.39 J**	**0.71 J**	**1.1 J**	<0.005	**4,900**	<3.0	<50	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014	<1.0	<1.0	**0.90 J**	**0.49 J**	**1.2 J**		**4,200**	**0.69 J**	<50	**160**	<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	<1.0	<1.0	**0.39 J**	**0.66 J**	**0.32 J**	<5.0	**3,600**	<3.0	<50	**150**	<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	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.9**		**7,000**	**2.8 J**	<50	**210**	<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	<1.0	<1.0	**0.36 J**	**0.73 J**	**0.98 J**	<5.0	**4,200**	<3.0	<50	**170**	<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	<1.0	<1.0	**2.8 J**	**1.5 J**	**4.7**		**7,100**	**2.8 J**	<50	**210**	<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	<1.0	<1.0	**0.28 J**	**0.61 J**	**0.93 J**	<5.0	**4,900**	<3.0	<50	**170**	<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		**10,000**	NS	**56,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	**4,200**	NS	**55,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS		**3,500**	NS	NS	**140**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinter}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020																								
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020																								
MW-20	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020																								
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020																								
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020																								
MW-21	W-R2330026-110420-SSR-007	11/4/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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)																			Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{Vi,res}$) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016																					**120**	NS	NS	NS
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	NS	**9.9 J**	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017																					**200**	NS	NS	NS
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	NS	**10 J**	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017																					**200**	NS	NS	NS
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	NS	**8.3 J**	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017																					**960**	NS	NS	NS
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	NS	**180**	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018																					**680**	NS	NS	NS
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	NS	**45**	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018																					**280**	NS	NS	NS
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	NS	**11**	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019																					**1,700**	NS	NS	NS
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	NS	**170**	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019																					**250**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020																					**650**	NS	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020																					**1,200**	NS	NS	NS
MW-20	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020																					**1,200**	NS	NS	NS
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																					**1,400**	**0.16 J**	**1.9 J**	**38 J**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.87 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**48 J**	**0.16 J**	<5.0	**31 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																					**480**	**0.15 J**	**1.1 J**	**81 J**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**0.70 J**	**72 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																					**3,000**	**0.23 J**	**2.2 J**	**73 J**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.19 J**	<5.0	**62 J**
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																					**34 J**	NS	NS	NS
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	NS	**3.2 J**	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																					**27 J**	NS	NS	NS
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	NS	**3.7 J**	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																					**190**	NS	NS	NS
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	NS	**20 J**	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																					**16 J**	NS	NS	NS
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	NS	**5.1 J**	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																					**120**	NS	NS	NS
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	NS	**6.8 J**	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																					**140**	NS	NS	NS
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	NS	**5.9 J**	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																					**270**	NS	NS	NS
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	NS	**8.6 J**	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019																					<8.0	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020																					**130**	NS	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020																					**550**	NS	NS	NS
MW-21	W-R2330026-110420-SSR-007	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014																					**8,100**	**0.78 J**	**14**	**540**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**4.3 J**	**440**
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																					**200**	**0.18 J**	**16**	**1,300**
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**12 J**	**0.22 J**	**15**	**1,300**
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																					**160**	<2.0	**16**	**1,300**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.11 J**	**16**	**1,300**
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																					**340**	**0.17 J**	**14**	**1,300**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.1 J**	**0.23 J**	**13**	**1,400**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015																					**95**	NS	NS	NS
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	NS	**2.0 J**	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016																					**37 J**	NS	NS	NS
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	NS	**41 J**	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016																					**58**	NS	NS	NS
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	NS	<50	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ft-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	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	NS	**3,600**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**180**	<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	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**180**	<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	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**180**	<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	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**190**	<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	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**160**	<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	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**140**	<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	**3,900**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	**6,900**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**210**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**210**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	**8,300**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	**4,800**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020	NS	NS	NS	NS	NS	NS	**8,300**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	<1.0	<1.0	**2.4 J**	**1.7 J**	**4.1**		**2,400**	**1.4 J**	<50	**60**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<1.0	<1.0	<10	**0.91 J**	**1.2 J**	<0.005	**56 J**	<3.0	<50	**9.1 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	<1.0	**0.076 J**	**1.1 J**	**0.89 J**	**2.0 J**		**850**	**0.72 J**	<50	**52**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<1.0	**0.061 J**	**0.22 J**	**0.70 J**	**0.98 J**	<5.0	**42 J**	<3.0	<50	**37 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	<1.0	**0.21 J**	**5.1 J**	**2.5 J**	**6.2**		**4,100**	**2.9 J**	<50	**100**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<1.0	**0.078 J**	**0.14 J**	**0.89 J**	**0.41 J**	<5.0	**20 J**	<3.0	<50	**25 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS		**59 J**	NS	**21,000**	NS	<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	NS	NS	NS	NS	NS	NS	**11 J**	NS	**21,000**	NS	<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	NS	NS	NS	NS	NS		**47 J**	NS	**20,000**	NS	<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	NS	NS	NS	NS	NS	NS	**10 J**	NS	**21,000**	NS	<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	NS	NS	NS	NS	NS		**320**	NS	NS	**4.6 J**	<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	NS	NS	NS	NS	NS	NS	**50 J**	NS	NS	**3.8 J**	<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	**36 J**	NS	NS	**35 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	**14 J**	NS	NS	**36 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	**220**	NS	NS	**33 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	**36 J**	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**46**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	**43**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	**93**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	**52**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	**70**	NS	NS	**94**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020	NS	NS	NS	NS	NS	NS	**870**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-110420-SSR-007	11/4/2020	NS	NS	NS	NS	NS	NS	**330**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	<1.0	**0.56 J**	**14**	**9.5 J**	**31**		**21,000**	**19**	<50	**730**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<1.0	<1.0	<10	**2.2 J**	**0.64 J**	**1.3 J**	**3,100**	**0.079 J**	<50	**360**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014	<1.0	**0.11 J**	**1.1 J**	**1.9 J**	**1.3 J**		**11,000**	**0.62 J**	<50	**250**	**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	<1.0	<1.0	**0.70 J**	**1.7 J**	<4.0	<5.0	**11,000**	<3.0	<50	**240**	**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	<1.0	**0.095 J**	**0.80 J**	**1.7 J**	**1.1 J**		**11,000**	<3.0	<50	**270**	<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	<1.0	<1.0	**0.61 J**	**1.7 J**	**0.37 J**	**17**	**11,000**	<3.0	<50	**260**	<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	<1.0	<1.0	**1.3 J**	**2.2 J**	**4.0**		**13,000**	**2.3 J**	<50	**270**	<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	<1.0	<1.0	**0.54 J**	**2.1 J**	**1.8 J**	**6.0**	**12,000**	<3.0	<50	**250**	<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		**7,000**	NS	**120,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	**5,400**	NS	**120,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS		**6,500**	NS	NS	**88**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**82**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**91**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{I/Scrit}$) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																								
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	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	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	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	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	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020																								
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020																								
MW-22	W-R2330026-110420-SSR-008	11/4/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<0.52	<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	<0.81	NS	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020																								
MW-23	W-R2330026-052020-SSR-021	5/20/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**0.5 J**	<0.49	<0.49	**20**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45	<0.81	NS	NS	NS	NS
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020																								
MW-23	W-R2330026-110420-SSR-009	11/4/2020	<0.52	<0.32	<0.35	<0.52	<6.2	**2.5**	<0.49	<0.49	**69**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45	<0.81	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	<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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<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	<3.0	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	<0.52	<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	<0.81	NS	NS	NS	NS
MW-24[A]	W-R2330026-110420-KRM-010	11/4/2020																								
MW-24	W-R2330026-110420-KRM-010	11/4/2020	<0.52	<0.32	<0.35	<0.52	<6.2	<0.46	<0.49	<0.49	<0.40	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45	<0.81	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	<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	<3.0	<10	<10	<5.0	<10

Table 3
Summary Of Ground Water Sample Results

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

			Semivolatile Organic Compounds (SVOCs)																				
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			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI/ING}$) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017																					**17 J**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																					**41**	NS	NS	NS
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	NS	**8 J**	NS	NS	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018																					**18**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019																					**31**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019																					**21**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020																					**340**	NS	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020																					**330**	NS	NS	NS
MW-22	W-R2330026-110420-SSR-008	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																					**560**	**0.15 J**	**13**	**610**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.85 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.7 J**	**0.089 J**	**12**	**560**
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																					**590**	**0.11 J**	**12**	**580**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.5 J**	**0.076 J**	**12**	**550**
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																					**6,700**	**1.1 J**	**46**	**1,300**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**21 J**	**0.20 J**	**26**	**1,100**
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																					**650**	**0.20 J**	**17**	**940**
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.7 J**	**0.21 J**	**16**	**860**
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																					**180**	NS	NS	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.0 J**	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016																					**190**	NS	NS	NS
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016																					**570**	NS	NS	NS
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017																					**110**	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.4 J**	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017																					**65**	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018																					**190**	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29**	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019																					**13**	NS	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020																					**170**	NS	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020																					**150**	NS	NS	NS
MW-23	W-R2330026-110420-SSR-009	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014																					**310**	<2.0	**5.7**	**170**
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.074 J**	**5.2**	**160**
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																					**12 J**	<2.0	**4.6 J**	**130**
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**4.9 J**	**130**
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																					**84**	<2.0	**7.4**	**140**
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.19 J**	**3.2 J**	**130**
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																					**260**	NS	NS	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016																					**170**	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**39 J**	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016																					**730**	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017																					**19 J**	NS	NS	NS
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017																					**27**	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018																					**13**	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019																					**10**	NS	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-24[A]	W-R2330026-110420-KRM-010	11/4/2020																					**270**	NS	NS	NS
MW-24	W-R2330026-110420-KRM-010	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																					**2,600**	**0.24 J**	**1.9 J**	**83 J**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.80 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.21 J**	**0.63 J**	**68 J**

Table 3
Summary Of Ground Water Sample Results

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

			Metals															
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			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**72**	<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	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**67**	<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	**9,400**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**67**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	**8,600**	NS	NS	**76**	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	**10,000**	NS	NS	**75**	NS	NS	NS	NS	NS	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**82**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	**7,900**	NS	NS	**87**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**98**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-110420-SSR-008	11/4/2020	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**87**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	<1.0	<1.0	**1.7 J**	**2.2 J**	**2.1 J**		**13,000**	**1.2 J**	<50	**180**	<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	<1.0	<1.0	**0.76 J**	**1.9 J**	<4.0	<0.005	**12,000**	**0.067 J**	<50	**160**	<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	<1.0	<1.0	**1.7 J**	**2.1 J**	**2.2 J**		**13,000**	**1.3 J**	<50	**180**	<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	<1.0	<1.0	**0.70 J**	**1.8 J**	<4.0	<0.005	**11,000**	<3.0	<50	**150**	<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	**0.31 J**	**0.68 J**	**18**	**9.3 J**	**37**		**35,000**	**30**	<50	**310**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<1.0	**0.037 J**	**1.3 J**	**2.4 J**	**0.18 J**	<5.0	**18,000**	<3.0	<50	**78**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015	<1.0	<1.0	**2.2 J**	**3.1 J**	**3.7 J**		**17,000**	**2.6 J**	<50	**120**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<1.0	<1.0	**0.96 J**	**2.8 J**	**2.3 J**	<5.0	**16,000**	**0.82 J**	<50	**99**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS		**14,000**	NS	**130,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	**14,000**	NS	**130,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS		**15,000**	NS	NS	**89**	<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	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**99**	<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	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**100**	<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	NS	NS	NS	NS	NS	NS	**8,000**	NS	NS	**92**	<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	**13,000**	NS	NS	**85**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**80**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**90**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**7.9**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS	**77**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**77**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-110420-SSR-009	11/4/2020	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS	**90**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	<1.0	<1.0	**0.57 J**	**0.50 J**	**1.6 J**		**5,300**	**0.38 J**	<50	**640**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<1.0	<1.0	<10	**0.76 J**	**0.75 J**	<0.005	**4,700**	<3.0	<50	**620**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014	<1.0	**0.051 J**	**0.13 J**	**0.25 J**	<4.0		**2,500**	<3.0	<50	**690**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<1.0	<1.0	<10	**0.19 J**	<4.0	<5.0	**2,100**	<3.0	<50	**670**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015	<1.0	**0.24 J**	**0.68 J**	**0.56 J**	**1.8 J**		**5,900**	**0.47 J**	<50	**740**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<1.0	**0.066 J**	<10	**0.57 J**	**1.3 J**	<5.0	**2,600**	**0.36 J**	<50	**700**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS		**5,900**	NS	**48,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	**2,700**	NS	**47,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS		**4,900**	NS	NS	**840**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS	**920**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS	**820**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**760**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**990**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**970**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**700**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**710**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**1000**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**960**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS	**760**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**770**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330026-110420-KRM-010	11/4/2020	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**850**	NS	NS	NS	NS	NS	NS	NS
MW-24	W-R2330026-110420-KRM-010	11/4/2020	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**740**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	<1.0	<1.0	**3.8 J**	**1.5 J**	**7.4**		**3,800**	**2.5 J**	<50	**190**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<1.0	<1.0	<10	**0.59 J**	**3.7 J**	<0.005	**110 J**	**0.25 J**	<50	**150**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ViInfo}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																								
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	**0.40 J**	<10
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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020																								
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020																								
MW-25	W-R2330026-110420-SSR-011	11/4/2020	NS	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020																								
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020																								
MW-26	W-R2330026-110420-SSR-006	11/4/2020	NS	NS	NS	NS	NS	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	NS	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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																								

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)																		Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IVpres}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																					**400**	**0.18 J**	**0.85 J**	**72 J**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.15 J**	<5.0	**66 J**
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																					**450**	**0.22 J**	**0.88 J**	**72 J**
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<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	<1.0	**0.13 J**	**0.71 J**	<2.0	<5.0	<5.0	**12 J**	**0.28 J**	<5.0	**67 J**
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015																					**6,000**	NS	NS	NS
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	NS	**46 J**	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016																					**1,400**	NS	NS	NS
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	NS	**24 J**	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016																					**250**	NS	NS	NS
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	NS	**7.4 J**	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017																					**720**	NS	NS	NS
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	NS	**18 J**	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017																					**190**	NS	NS	NS
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	NS	**7.2 J**	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																					**1,200**	NS	NS	NS
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	NS	**16**	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019																					**420**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020																					**1,500**	NS	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020																					220	NS	NS	NS
MW-25	W-R2330026-110420-SSR-011	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014																					**900**	**0.37 J**	**2.7 J**	**37 J**
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**36 J**	**0.39 J**	**1.5 J**	**34 J**
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																					**210**	**0.22 J**	<5.0	**25 J**
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.16 J**	<5.0	**24 J**
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																					**2,200**	**0.33 J**	**3.5 J**	**34 J**
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**82**	**0.27 J**	<5.0	**21 J**
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015																					**910**	NS	NS	NS
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	NS	**9.6 J**	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016																					**1,200**	NS	NS	NS
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	NS	**59**	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016																					**500**	NS	NS	NS
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	NS	**150**	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017																					**290**	NS	NS	NS
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	NS	**15 J**	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017																					**250**	NS	NS	NS
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	NS	**16**	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018																					**290**	NS	NS	NS
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	NS	**14**	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019																					**440**	NS	NS	NS
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	NS	**12**	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020																					**130**	NS	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020																					**560**	NS	NS	NS
MW-26	W-R2330026-110420-SSR-006	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																					**190**	**0.61 J**	**4.7 J**	**240**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.8 J**	**0.58 J**	**4.5 J**	**240**
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																					**460**	**0.25 J**	**2.7 J**	**200**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**32 J**	**0.18 J**	**2.2 J**	**290**
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																					**270**	**0.43 J**	**0.97 J**	**210**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.67 J**	**0.75 J**	**260**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																					**54**	NS	NS	NS
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	NS	**2.2 J**	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																					**59**	NS	NS	NS
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	NS	**3.6 J**	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																					**120**	NS	NS	NS
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	NS	**5.7 J**	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																					**110**	NS	NS	NS
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	NS	**5.3 J**	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																					**71**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																					**35**	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ft-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	<1.0	**0.11 J**	**1.3 J**	**0.53 J**	**3.2 J**		**570**	**0.59 J**	<50	**340**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<1.0	**0.071 J**	<10	**0.33 J**	**2.9 J**	<5.0	**16 J**	<3.0	<50	**250**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	<1.0	**0.060 J**	**0.84 J**	**0.77 J**	**4.2**		**620**	**0.57 J**	<50	**310**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<1.0	**0.061 J**	<10	**0.63 J**	**6.2**	<5.0	**28 J**	**0.37 J**	<50	**110**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS		**14,000**	NS	**30,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	**63 J**	NS	**16,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS		**2,400**	NS	NS	**990**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS	**68**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**580**	<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	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**95**	<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	**350**	NS	NS	**570**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**320**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS	**1,100**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**45**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**3,300**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	**210**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**2,600**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020	NS	NS	NS	NS	NS	NS	**700**	NS	NS	**990**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-110420-SSR-011	11/4/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**580**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	<1.0	<1.0	**1.8 J**	**1.2 J**	**4.6**		**1,900**	**1.1 J**	<50	**110**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<1.0	<1.0	<10	**1.1 J**	**1.0 J**	<0.005	**55 J**	<3.0	<50	**86**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014	<1.0	**0.13 J**	**0.52 J**	**0.65 J**	**2.0 J**		**360**	<3.0	<50	**69**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<1.0	**0.079 J**	<10	**0.54 J**	**1.0 J**	<5.0	<200	<3.0	<50	**65**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015	<1.0	**0.16 J**	**4.5 J**	**2.1 J**	**7.8**		**4,300**	**3.4**	<50	**100**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<1.0	**0.070 J**	**0.29 J**	**0.80 J**	**2.2 J**	<5.0	**130 J**	<3.0	<50	**25 J**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS		**2,300**	NS	**21,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	**19 J**	NS	**20,000**	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS		**2,100**	NS	NS	**58**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	**910**	NS	NS	**45 J**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	**310**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	**790**	NS	NS	**19 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**7.8 J**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	**23 J**	NS	NS	**5.8 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	**480**	NS	NS	**71**	<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	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS	**62**	<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	**470**	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	<300	NS	NS	**5.4**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	**650**	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**21**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020	NS	NS	NS	NS	NS	NS	**840**	NS	NS	**34**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-110420-SSR-006	11/4/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	<1.0	**0.097 J**	**0.69 J**	**2.4 J**	**3.7 J**		**1,700**	**0.70 J**	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330012-091514-ACN-002	9/15/2014	<1.0	<1.0	<10	**2.9 J**	**1.9 J**	NS	**1,500**	**0.076 J**	<50	**160**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	<1.0	**0.063 J**	**1.2 J**	**2.5 J**	**4.2**		**1,900**	**1.2 J**	<50	**140**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<1.0	<1.0	**0.22 J**	**2.1 J**	**1.4 J**	<5.0	**2,600**	<3.0	<50	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015	<1.0	**0.13 J**	**0.76 J**	**1.9 J**	**2.3 J**		**2,200**	**0.62 J**	<50	**72**	<0.2	<20	<5.0	<5.0	<5.0	<4.0	**1,500**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<1.0	**0.23 J**	**0.35 J**	**2.4 J**	**1.3 J**	<5.0	**1,900**	<3.0	<50	**80**	<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	NS	NS	NS	NS	NS		**4,100**	NS	NS	NS	**0.98**	**410**	**13 J**	**0.78 J**	**7.6 J**	**380**	**22 J**
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	NS	<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	NS	NS	NS	NS	NS		**4,700**	NS	NS	**94**	<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	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**100**	<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	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**110**	<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	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**100**	<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	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS	**110**	**0.39**	**86 J**	<5.0	**2.7**	<2.0	**86**	**210 J**
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**110**	<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	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS	**100**	<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	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**90**	<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	NS	NS	NS	NS	NS	NS	**4,800**	NS	NS	**92**	**0.12 J**	**130 J**	**12 J**	<0.20	**0.96 J**	**9.3**	**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			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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinter}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	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	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020																								
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020																								
MW-27	W-R2330026-110520-KRM-016	11/5/2020	NS	NS	NS	NS	NS	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	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020																								
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	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	<3.0	<11	<11	<5.3	<11
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	<3.0	<11	<11	<5.3	<11
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020																								
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020																								
MW-29	W-R2330026-111020-SSR-034	11/10/2020	NS	NS	NS	NS	NS	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	<3.0	<11	<11	<5.3	<11
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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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)																			Inorganics			
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{Vi,res}$) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	1.08E+06	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
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	NS	**8.6 J**	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018																					**170**	NS	NS	NS
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	NS	**4**	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018																					**48**	NS	NS	NS
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	NS	**9**	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019																					**71**	NS	NS	NS
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	NS	**3**	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019																					**10**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020																					**33**	NS	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020																					630	NS	NS	NS
MW-27	W-R2330026-110520-KRM-016	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019																					<8.0	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020																					**48.0**	NS	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																					**530**	<2.0	**2.5 J**	**200**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	**8.8 J**	<2.0	**2.3 J**	**200**
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																					**370**	<2.0	**2.1 J**	**200**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	<2.0	**2.4**	**200**
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																					**1,400**	**0.11 J**	**6.2**	**220**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	**3.1 J**	**220**
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015																					**420**	NS	NS	NS
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	NS	**5.3 J**	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																					**110**	NS	NS	NS
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	NS	**2.5 J**	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																					**54**	NS	NS	NS
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	NS	**5.3 J**	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																					**18 J**	NS	NS	NS
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	NS	**20 J**	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																					**12**	NS	NS	NS
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	NS	<4.2	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																					42	NS	NS	NS
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	NS	<4.2	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																					**15.0**	NS	NS	NS
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	NS	**110.0**	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																					**230.0**	NS	NS	NS
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	NS	<2.6	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																					**40**	NS	NS	NS
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	NS	**19**	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020																					**260**	NS	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020																					**640**	NS	NS	NS
MW-29	W-R2330026-111020-SSR-034	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015																					**580**	**0.30 J**	**4.3 J**	**120**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	**11 J**	**0.39 J**	**3.2 J**	**110**
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																					**110**	**0.28 J**	**1.6 J**	**95 J**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.8 J**	**0.44 J**	**2.3 J**	**110**
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015																					**54**	NS	NS	NS
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	NS	**10 J**	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016																					**21 J**	NS	NS	NS
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	NS	**7.1 J**	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016																					**18 J**	NS	NS	NS
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	NS	**7.1 J**	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016																					**28 J**	NS	NS	NS
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	NS	**7.4 J**	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017																					**35 J**	NS	NS	NS
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	NS	**6.1 J**	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017																					**480**	NS	NS	NS
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	NS	**38**	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018																					**70**	NS	NS	NS
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	NS	**6.7**	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ss-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**91**	<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	**5,200**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	**7,100**	NS	NS	**850**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS	**830**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**780**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**780**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**89**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**84**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-110520-KRM-016	11/5/2020	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**96**	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	**23,000**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS	**480**	NS	NS	NS	NS	NS	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS	**490**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	<1.0	0.046 J	**1.3 J**	**1.4 J**	**1.6 J**		**3,200**	**2.0 J**	<50	**410**	**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	<1.0	<1.0	<10	**1.1**	**0.35 J**	<5.0	**2,400**	<3.0	<50	**380**	<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	<1.0	**0.065 J**	**1.3 J**	**1.3 J**	**0.88 J**		**2,900**	**0.60 J**	<50	**400**	**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	<1.0	<1.0	<10	**1.3 J**	<4.0	<5.0	**2,500**	<3.0	<50	**400**	<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	<1.0	**0.11 J**	**3.3 J**	**2.0 J**	**5.6**		**5,400**	**2.8 J**	<50	**400**	**0.51**	**1,100**	**47 J**	**2.5**	**13 J**	**660**	**680**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<1.0	**0.048 J**	<10	**1.0 J**	**1.3 J**	<5.0	**2,800**	<3.0	<50	**400**	<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	NS	NS	NS	NS	NS		**4,100**	NS	**21,000**	NS	<0.2	**210**	**9.4 J**	<0.20	**2.3 J**	**180**	**140 J**
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	**3,300**	NS	**20,000**	NS	<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	NS	NS	NS	NS	NS		**5,400**	NS	NS	**260**	<0.2	**53 J**	<5.0	<0.20	<2.0	**46**	**800**
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**250**	<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	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**300**	**0.23**	**310**	**13 J**	**0.75 J**	**3.3 J**	**320**	**470 J**
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	**3,000**	NS	NS	**290**	<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	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**240**	**0.13**	**51 J**	<5.0	<0.20	<2.0	**24 J**	**950**
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**250**	<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	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS	**210**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**44**
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS	**210**	<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	**4,100**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	**3,400**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS	**66**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020	NS	NS	NS	NS	NS	NS	**24,000**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-111020-SSR-034	11/10/2020	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**70**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	<1.0	**0.53 J**	**1.7 J**	**0.30 J**	**3.9 J**		**500**	**1.3 J**	<50	**72**	**0.15**	**22 J**	<5.0	<0.20	<2.0	**19 J**	**210 J**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<1.0	**0.45 J**	<10	**0.28 J**	**1.1 J**	**5.0**	**18 J**	<3.0	<50	**67**	<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	<1.0	**0.54 J**	**0.34 J**	**0.19 J**	**2.2 J**		**100 J**	<3.0	<50	**47 J**	**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	<1.0	**0.22 J**	<10	**0.62 J**	**1.6 J**	<5.0	**180 J**	<3.0	<50	**110**	<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	NS	NS	NS	NS	NS		**310**	NS	**14,000**	NS	<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	NS	NS	NS	NS	NS	NS	**740**	NS	**13,000**	NS	<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	NS	NS	NS	NS	NS		**710**	NS	NS	**110**	**2.2**	**320**	<5.0	**16**	<2.0	**90**	**140**
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**130**	<0.2	**16 J**	<5.0	<0.20	<2.0	**2.3 J**	**34 J**
MW-30[A]	DUP 2	4/22/2016	NS	NS	NS	NS	NS		**650**	NS	NS	**120**	**0.11**	**9.7 J**	<5.0	<2.0	<2.0	**6.6**	**360**
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**120**	<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	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**94**	**0.43**	**40**	**2.6 J**	**0.18 J**	**0.37 J**	**30**	**140**
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	**990**	NS	NS	**100**	<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	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**75**	<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	NS	NS	NS	NS	NS	NS	**1,000**	NS	NS	**96**	<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	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS	**75**	<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	NS	NS	NS	NS	NS	NS	**920**	NS	NS	**70**	<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	**620**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**92**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinter}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020																							
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020																							
MW-30	W-R2330026-111020-SSR-035	11/10/2020	NS	NS	NS	NS	NS	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	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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020																							
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020																							
MW-31	W-R2330026-110220-KRM-001	11/2/2020	NS	NS	NS	NS	NS	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	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	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	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	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	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	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	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	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	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	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020																							
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020																							
MW-32	W-R2330026-110220-KRM-002	11/2/2020	NS	NS	NS	NS	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	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																							

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)																					
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018																					4.7	NS	NS	NS
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	NS	95	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019																					1,200	NS	NS	NS
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	NS	8.2 J	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019																					410	NS	NS	NS
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	NS	9.6 J	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019																					310	NS	NS	NS
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	NS	14	NS	NS	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020																					86	NS	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020																					130	NS	NS	NS
MW-30	W-R2330026-111020-SSR-035	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																					330	NS	NS	NS
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	NS	10 J	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																					3,400	NS	NS	NS
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	NS	16	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																					12	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																					14 J	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																					350	NS	NS	NS
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	NS	13 J	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																					16	NS	NS	NS
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	NS	<4.2	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																					480	NS	NS	NS
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	NS	31	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																					1,100	NS	NS	NS
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	NS	6.5	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																					1,300	NS	NS	NS
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	NS	33	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019																					300	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020																					8,400	NS	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	39	NS	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020																					36	NS	NS	NS
MW-31	W-R2330026-110220-KRM-001	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015																					1,400	NS	NS	NS
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	NS	6.1 J	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015																					920	NS	NS	NS
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	120	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016																					160	NS	NS	NS
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	4.0 J	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016																					780	NS	NS	NS
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	170	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017																					1,600	NS	NS	NS
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	7 J	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017																					<4.2	NS	NS	NS
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	19 J	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018																					2,000	NS	NS	NS
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	180	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018																					300	NS	NS	NS
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	4.3	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019																					4,700	NS	NS	NS
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	340	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019																					300	NS	NS	NS
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	11	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020																					320	NS	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8.3 J	NS	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020																					<10.0	NS	NS	NS
MW-32	W-R2330026-110220-KRM-002	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.0	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																					1,000	NS	NS	NS
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	18 J	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																					860	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IS-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	**730**	NS	NS	**52**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**81**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**92**	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	**1,600**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**68**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	**630**	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	**230**	NS	NS	**49**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	**71 J**	NS	NS	**34**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020	NS	NS	NS	NS	NS	NS	**690**	NS	NS	**54**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-111020-SSR-035	11/10/2020	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**47**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS		**490**	NS	<50	**240**	<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	NS	NS	NS	NS	NS	NS	**55 J**	NS	<50	**240**	<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	NS	NS	NS	NS	NS		**5,900**	NS	**27,000**	NS	<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	NS	NS	NS	NS	NS	NS	**130**	NS	**17,000**	NS	<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	NS	NS	NS	NS	NS		**130**	NS	NS	**360**	<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	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**390**	<0.2	**15 J**	<5.0	<0.20	<2.0	<4.0	**21J**
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS	**400**	<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	NS	NS	NS	NS	NS	NS	**110 J**	NS	NS	**370**	<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	NS	NS	NS	NS	NS	NS	**870**	NS	NS	**410**	<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	NS	NS	NS	NS	NS	NS	**150 J**	NS	NS	**420**	<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	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**440**	<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	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS	**430**	<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	**1,800**	NS	NS	**630**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	**65 J**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS	**830**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	**140**	NS	NS	**280**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS	**610**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	**40,000**	NS	NS	**1,200**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	**120**	NS	NS	**500**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**460**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-110220-KRM-001	11/2/2020	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS		**4,700**	NS	<50	**95**	<0.2	**6.4 J**	<5.0	<0.20	<2.0	<4.0	**51**
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	**2,000**	NS	<50	**62**	<0.2	**4.0 J**	<5.0	<0.20	<2.0	**1.2 J**	**8.8 J**
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS		**6,300**	NS	**66,000**	NS	<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	NS	NS	NS	NS	NS	NS	**4,700**	NS	**66,000**	NS	<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	NS	NS	NS	NS	NS		**670**	NS	NS	**81**	<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	NS	NS	NS	NS	NS	NS	**410**	NS	NS	**87**	<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	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS	**100**	<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	NS	NS	NS	NS	NS	NS	**4,000**	NS	NS	**82**	<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	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS	**46 J**	<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	NS	NS	NS	NS	NS	NS	**5,200**	NS	**NS**	**90**	<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	NS	NS	NS	NS	NS	NS	**5,100**	NS	**NS**	**80**	<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	NS	NS	NS	NS	NS	NS	**810**	NS	NS	**29 J**	<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	**5,800**	NS	NS	**42**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**33**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**81**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS	**85**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS	**1,600**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	**780**	NS	NS	**60**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	**6,400**	NS	NS	**88**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	**6,100**	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**18**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	**1,200**	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020	NS	NS	NS	NS	NS	NS	**5,500**	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-110220-KRM-002	11/2/2020	NS	NS	NS	NS	NS	NS	**6,000**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS		**4,500**	NS	<50	**120**	<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	NS	NS	NS	NS	NS	NS	**3,200**	NS	<50	**80**	<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	NS	NS	NS	NS	NS		**3,400**	NS	**84,000**	NS	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020																								
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020																								
MW-33	W-R2330026-110220-KRM-003	11/2/2020	NS	NS	NS	NS	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	<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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020																								
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020																								
MW-34	W-R2330026-111020-SSR-036	11/10/2020	NS	NS	NS	NS	NS	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020																								
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	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)																					
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	1.08E+06	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
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	**15 J**	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																					**67**	NS	NS	NS
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	**3.8 J**	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																					**400**	NS	NS	NS
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	**16 J**	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																					**820**	NS	NS	NS
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	**16 J**	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																					**430**	NS	NS	NS
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	**39**	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																					**5.2 J**	NS	NS	NS
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	**360**	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																					**530**	NS	NS	NS
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	**3.4**	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																					**300**	NS	NS	NS
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	**6.0 J**	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019																					**28**	NS	NS	NS
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	**<8.0**	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020																					**170**	NS	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020																					**30**	NS	NS	NS
MW-33	W-R2330026-110220-KRM-003	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015																					**1,700**	**0.24 J**	**4.2 J**	**120**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**20 J**	**0.23 J**	**3.0 J**	**110**
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015																					**28 J**	NS	NS	NS
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	**2.9 J**	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016																					**120**	NS	NS	NS
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	**5.7 J**	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016																					**300**	NS	NS	NS
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	**10 J**	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017																					**120**	NS	NS	NS
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	**12 J**	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017																					**180**	NS	NS	NS
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	NS	**7.9 J**	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018																					**42**	NS	NS	NS
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	NS	< 50	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018																					**21**	NS	NS	NS
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	NS	**5.2**	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019																					**140**	NS	NS	NS
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	NS	**7.8 J**	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019																					**450**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020																					**41**	NS	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020																					**100**	NS	NS	NS
MW-34	W-R2330026-111020-SSR-036	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016																					**110**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016																					50 J	NS	NS	NS
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	NS	8 J	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017																					**220**	NS	NS	NS
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	NS	**7.1 J**	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017																					**33**	NS	NS	NS
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	NS	<4.2	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018																					**61**	NS	NS	NS
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	NS	**4.7 J**	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018																					**73**	NS	NS	NS
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	NS	**26**	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019																					**460**	NS	NS	NS
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	NS	**7.3 J**	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019																					**8.5**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020																					**3,500**	NS	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.9 J**	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			Metals															
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{ss-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	**2,700**	NS	**85,000**	NS	<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	NS	NS	NS	NS	NS		**2,700**	NS	NS	**81**	<0.2	0.63 J	<5.0	<0.20	<2.0	<4.0	<50
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS	**84**	<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	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**78**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**14 J**
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**64**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**14 J**
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**89**	<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	**3,700**	NS	NS	**72**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS	**68**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**75**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**69**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**70**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	**4,700**	NS	NS	**72**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**71**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS	**69**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-110220-KRM-003	11/2/2020	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS	**67**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	<1.0	<1.0	**2.6 J**	**2.2 J**	**5.0**		**2,800**	**2.4 J**	<50	**320**	<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	<1.0	<1.0	**1.3 J**	**1.0 J**	**0.75 J**	<0.005	**120 J**	<3.0	<50	**270**	<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	NS	NS	NS	NS	NS		**1,000**	NS	**20,000**	NS	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	**930**	NS	**19,000**	NS	<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	NS	NS	NS	NS	NS		**1,200**	NS	NS	**300**	<0.2	**1.4 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	**850**	NS	NS	**290**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**520**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS	**490**	<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	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**230**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS	**240**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	<50
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS	**290**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**290**	<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	**1,800**	NS	NS	**280**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**280**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	**13,000**	NS	NS	**420**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS	**460**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	**3,200**	NS	NS	**270**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	**670**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS	**420**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-111020-SSR-036	11/10/2020	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS	**420**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	**320**	NS	NS	**16 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	**6.3 J**	<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	**190 J**	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	**790**	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS	**1.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	**110**	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	<4.6	NS	NS	**7.6**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	**210**	NS	NS	**18**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**3.4 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	**270**	NS	NS	**27**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	**29**	NS	NS	**8.6**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**81**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	**26 J**	NS	NS	**3.4 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	**4.1 J**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS	**940**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	NS	59 J	NS	NS	**<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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vimp}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	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	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	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	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	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																							
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	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	<3.0	<10	<10	<5.0	<10
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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																							
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020																							
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	NS	NS	NS	NS	NS	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**	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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**	**4.2**	<10	<10	**0.19 J**	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																							

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)																			Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vapor}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016																					**59**	NS	NS	NS
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	NS	**4.1 J**	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016																					**58**	NS	NS	NS
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	NS	**7.7 J**	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017																					**240**	NS	NS	NS
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	NS	<50	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017																					**25**	NS	NS	NS
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	NS	<4.2	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018																					**220**	NS	NS	NS
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	NS	**6.2 J**	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018																					**940**	NS	NS	NS
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	NS	**13.0**	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019																					**400**	NS	NS	NS
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	NS	**8.10 J**	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019																					**9.7 J**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020																					**240**	NS	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																					**150**	**0.15 J**	**9.1**	**24 J**
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	**0.13 J**	<5.0	<5.0	<2.0	<5.0	<5.0	<50	**0.15 J**	**2.8 J**	**21 J**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015																					**8.6 J**	**NS**	NS	NS
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	NS	<50	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016																					**22 J**	NS	NS	NS
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	NS	**33 J**	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016																					**4.8 J**	NS	NS	NS
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	NS	<50	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																					**29 J**	NS	NS	NS
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	NS	<50	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018																					<50	NS	NS	NS
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	NS	<50	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018																					**6.3**	NS	NS	NS
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	NS	U	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019																					16	NS	NS	NS
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	NS	<2.6	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019																					<8.0	NS	NS	NS
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	NS	<8.0	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020																					**14**	NS	NS	NS
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25**	NS	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020																					**210**	NS	NS	NS
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																					**120,000**	**2.8 J**	**300**	**730 J**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.37 J**	<2.0	**59 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																					**2,100**	**0.54 J**	**2.1 J**	**65 J**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.37 J**	<2.0	**49 J**
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																					**790**	**0.32 J**	**2.0 J**	**33 J**
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.9 J**	**0.43 J**	**0.77 J**	**34 J**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																					**38,000 J**	**13 J**	**37 J**	**2,900**
SB-21	W-R2330009-120513-RD-001	12/5/2013	**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	<1.0	**0.94 J**	<5.0	<2.0	<5.0	**0.44 J**	**24 J**	**0.97 J**	**2.3 J**	**2,000**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																					**1,900**	**2.2 J**	<5.0	**1000**
SB-22	W-R2330009-120513-RD-002	12/5/2013	<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**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.99 J**	**2.0 J**	**960**
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																					**3,200**	**2.8 J**	**72**	**880 J**
SB-23	W-R2330009-120513-RD-003	12/5/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.39 J**	**23**	**690**
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																					**6,700**	**2.6 J**	**130**	**860 J**
SB-24	W-R2330009-120613-RD-004	12/6/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**52 J**	**0.60 J**	**6.7**	**410**
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																					**250,000**	**2.6 J**	**470**	**1,300**
SB-25	W-R2330009-120613-RD-005	12/6/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**930**	**4.3**	**11**	**84 J**
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																					**15,000**	**5.0 J**	**610**	**970 J**
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.16 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**60**	**22**	**8.6**	**57 J**
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																					**62,000**	**2.5 J**	**86**	**610 J**
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<10	<5.0	<10	**0.26 J**	<5.0	<5.0	<10	**0.28 J**	<10	<10	<4.0	<5.0	<5.0	**0.22 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**22 J**	**0.56 J**	**2.1 J**	**160**
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																					**17,000**	**1.1 J**	**18 J**	**300 J**
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.29 J**	<10	<10	<4.0	<5.0	<5.0	**0.19 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.48 J**	**2.0 J**	**150**
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																					**95,000**	**3.2 J**	**210**	**550 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			Metals																
			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IS-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	**930**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	**380**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	**450**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	**490**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	**580**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	**87**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS	**270**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	**37**	NS	NS	**49**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	**900**	NS	NS	**350**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	NS	**700**	NS	NS	**320**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	NS	**560**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015	<1.0	**0.18 J**	**0.41 J**	**0.86 J**	**1.6 J**		**750**	**1.3 J**	<50	**210**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<1.0	**0.23 J**	**0.16 J**	**0.60 J**	**1.1 J**	<5.0	**43 J**	<3.0	<50	**72**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS		**480**	NS	**12,000**	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	**31**	NS	**12,000**	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS		**440**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	**140 J**	NS	NS	**72**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	**130 J**	NS	NS	**68**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	**890**	NS	NS	**610**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	**180 J**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	**360**	NS	NS	**96**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	**380**	NS	NS	**98**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	**170**	NS	NS	**34**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	**80**	NS	NS	**21**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	**250**	NS	NS	**84**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	**160**	NS	NS	**69**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	**280**	NS	NS	**65**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**56**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	**200**	NS	NS	**84**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**37**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020	NS	NS	NS	NS	NS	NS	2,200	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	**5.9 J**	**4.0 J**	**240**	**140 J**	**510**		**310,000**	**250**	<50	**5,300**	NS	NS	NS	NS	NS	NS	NS
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<1.0	**0.071 J**	<10	**8.0 J**	**2.3 J**	<0.005	**71 J**	**0.072 J**	<50	**610**	NS	NS	NS	NS	NS	NS	NS
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	**0.12 J**	**0.20 J**	**4.6 J**	**9.6 J**	**7.4**		**3,500**	**4.0**	<50	**800**	NS	NS	NS	NS	NS	NS	NS
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<1.0	**0.064 J**	<10	**5.4 J**	**1.9 J**	<0.005	**150 J**	**0.11 J**	<50	**470**	NS	NS	NS	NS	NS	NS	NS
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013	<1.0	**0.052 J**	**5.2 J**	**1.5 J**	**2.9 J**		**1,600**	**0.79 J**	<50	**53**	NS	NS	NS	NS	NS	NS	NS
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<1.0	<1.0	<10	**2.2 J**	**2.0 J**	**2.3 J**	**770**	<3.0	<50	**53**	NS	NS	NS	NS	NS	NS	NS
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013	**1.7 J**	**11**	**75 J**	**38 J**	**320**		**73,000**	**1,700**	<50	**1,800**	NS	NS	NS	NS	NS	NS	NS
SB-21	W-R2330009-120513-RD-001	12/5/2013	<1.0	<1.0	**1.7 J**	**5.5 J**	**2.3 J**	**6.9**	**13,000**	**0.49 J**	<50	**530**	NS	NS	NS	NS	NS	NS	NS
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013	<1.0	<1.0	**8.1 J**	**4.3 J**	**40 J**		**16,000**	**59**	<50	**550**	NS	NS	NS	NS	NS	NS	NS
SB-22	W-R2330009-120513-RD-002	12/5/2013	<1.0	<1.0	**1.1 J**	**3.9 J**	**2.8 J**	**3.6 J**	**12,000**	**0.21 J**	<50	**560**	NS	NS	NS	NS	NS	NS	NS
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013	**1.8 J**	<1.0	**130**	**40 J**	**150**		**8,600**	**86**	<50	**1,600**	NS	NS	NS	NS	NS	NS	NS
SB-23	W-R2330009-120513-RD-003	12/5/2013	<1.0	<1.0	**2.3 J**	**3.0 J**	**1.5 J**	**31**	**12,000**	**0.084 J**	<50	**70**	NS	NS	NS	NS	NS	NS	NS
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	**3.5 J**	**2.9 J**	**130**	**77 J**	**220**		**190,000**	**150**	<50	**4,100**	NS	NS	NS	NS	NS	NS	NS
SB-24	W-R2330009-120613-RD-004	12/6/2013	<1.0	<1.0	<10	**2.5 J**	**2.5 J**	**9.2**	**4,700**	<3.0	<50	**360**	NS	NS	NS	NS	NS	NS	NS
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013	**9.8 J**	**13**	**540**	**270**	**700**		**520,000**	**440**	<50	**9,200**	NS	NS	NS	NS	NS	NS	NS
SB-25	W-R2330009-120613-RD-005	12/6/2013	<1.0	**0.10 J**	**1.4 J**	**4.0 J**	**1.5 J**	**46.0**	**1,100**	**0.63 J**	<50	**530**	NS	NS	NS	NS	NS	NS	NS
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013	**12**	**17**	**1,000**	**310**	**1,100**		**700,000**	**640**	<50	**14,000**	NS	NS	NS	NS	NS	NS	NS
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<1.0	<1.0	<10	**2.8 J**	**1.4 J**	**1.0 J**	**1,900**	**0.11 J**	<50	**92**	NS	NS	NS	NS	NS	NS	NS
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013	**3.2 J**	**3.2 J**	**290**	**57 J**	**220**		**140,000**	**100**	<50	**2,800**	NS	NS	NS	NS	NS	NS	NS
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<1.0	<1.0	<10	**5.3 J**	**2.8 J**	**1.5 J**	**7,400**	<3.0	<50	**310**	NS	NS	NS	NS	NS	NS	NS
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<1.0	**0.61 J**	**59 J**	**13 J**	**46**		**38,000**	**19 J**	<50	**730**	NS	NS	NS	NS	NS	NS	NS
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<1.0	<1.0	<10	**4.7 J**	**2.4 J**	**1.3 J**	**4,900**	<3.0	<50	**300**	NS	NS	NS	NS	NS	NS	NS
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013	**5.2 J**	**5.2 J**	**350**	**85 J**	**330**		**230,000**	**200**	<50	**4,100**	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)																		Semi-Volatile Organic Compounds (SVOCs)			
			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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinter}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																								
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	<3.0	<10	<10	<5.0	<10
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**	**74.0**	<10	**0.67 J**	**1.6 J**	**0.46 J**
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**	**1.0 J**	<10	**3.1 J**	**2.9 J**	<10
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**	<3.0	<10	<10	<5.0	<10
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**	**1.0 J**	<10	<10	**1.2 J**	<10
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**	**1.3 J**	<10	<10	**0.29 J**	<10
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**	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<25	<1.0	<1.0	<50	**14 J**	<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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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**	**1.0 J**	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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**	**1.9 J**	<10	<10	**2.4 J**	<10
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**	**2.8 J**	<10	<10	<5.0	<10
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**	**2.8 J**	<10	<10	<5.0	<10
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**	**1.7 J**	<10	<10	<5.0	<10
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**	**1.5 J**	<10	<10	**1.5 J**	<10
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**	**1.5 J**	<10	<10	**1.2 J**	<10
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**	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<80	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	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	<3.0	<10	<10	<5.0	<10
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	<3.0	**0.56 J**	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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**	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<11	<11	<5.3	<11
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10

Table 3
Summary Of Ground Water Sample Results

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

			Semivolatile Organic Compounds (SVOCs)																					
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			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{Vinres}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.18 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**31 J**	**1.8 J**	**10**	**110**
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																					**7,600**	**4.1 J**	**10 J**	**2,100**
SB-29	W-R2330009-121213-AJL-014	12/12/2013	**2.0 J**	<5.0	<10	<5.0	**6.0 J**	**1.0 J**	**1.2 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.26 J**	<1.0	**0.57 J**	**1.3 J**	<2.0	<5.0	**0.36 J**	**25 J**	**0.83 J**	<5.0	**1,700**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																					**7,300**	**3.1 J**	**6.8 J**	**2,700**
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<10	<5.0	<10	<5.0	**1.2 J**	<5.0	**0.92 J**	<5.0	<10	<10	**0.64 J**	<5.0	<5.0	**0.21 J**	<1.0	**1.1 J**	**2.2 J**	<2.0	<5.0	**0.40 J**	**18 J**	**0.43 J**	<5.0	**2,100**
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																					**2,000**	**0.34 J**	**5.7 J**	**84 J**
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**60 J**	**0.46 J**	**23 J**	**520 J**
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																					**1,600**	**1.7 J**	<5.0	**1,600**
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	**0.85 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	**0.37 J**	<1.0	**0.17 J**	**1.0 J**	<2.0	<5.0	<5.0	**21 J**	**0.53 J**	<5.0	**1,500**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																					**45,000**	**95**	**66**	**3,400**
SB-33	W-R2330009-121213-AJL-017	12/12/2013	**0.40 J**	<5.0	<10	**0.59 J**	**0.39 J**	<5.0	**0.73 J**	<5.0	<10	<10	<4.0	**0.37 J**	<5.0	**0.26 J**	<1.0	<5.0	**0.20 J**	<2.0	<5.0	<5.0	**30 J**	**1.6 J**	<5.0	**1,500**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																					**2,000**	**0.34 J**	**5.7**	**84 J**
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**60 J**	**0.46 J**	**23 J**	**520 J**
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																					**11,000**	**0.97 J**	**12**	**150**
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.69 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**75 J**	**0.89 J**	**9.3 J**	**700 J**
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**35 J**	**1.2 J**	**44**	**540**
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**38 J**	**0.16 J**	**5.7**	**370**
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**380**	**0.33 J**	**6.2**	**58 J**
SB-19	W-2330012-040114-ACN-004	4/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**39 J**	**0.46 J**	**5.3**	**140**
SB-20	W-2330012-040114-ACN-005	4/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**300**	**0.19 J**	<5.0	**21 J**
SB-35	W-2330012-040114-ACN-006	4/1/2014	**1.6 J**	<5.0	<10	<5.0	**1.7 J**	<5.0	<10	<5.0	<10	**1.9 J**	<4.0	<5.0	<5.0	<5.0	<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**
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**160 J**	**0.75 J**	**4.3 J**	**2,800**
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**130 J**	**0.43 J**	**4.4 J**	**2,600**
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**66 J**	**1.5 J**	**24 J**	**640**
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**2.5 J**	**14 J**	**380**
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	**0.80 J**	<2.0	<5.0	<5.0	**75**	**0.61 J**	**2.3 J**	**2,100**
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**38 J**	**0.40 J**	**6.4 J**	**100 J**
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**39 J**	**0.43 J**	**2.8 J**	**160**
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**170 J**	**1.4 J**	<5.0	**69 J**
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**21 J**	<2.0	<5.0	**9.3 J**
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**74 J**	**0.43 J**	<5.0	**44 J**
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**25 J**	**0.40 J**	<5.0	**27 J**
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	**1.6 H**	<5.0	<5.0	<2.0	**0.69 H**	<5.0	**16 J**	**1.3 J**	<5.0	**34 J**
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	**1.3 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.4 J**	**1.1 J**	**0.93 J**	**93 J**
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	**1.3 H**	<5.0	<5.0	<2.0	<5.0	<5.0	<250	**1.4 J**	<25	**78 J**
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<10	<80	<80	<40	<5.0	<5.0	<10	<5.0	<10	<80	<4.0	<40	<40	<40	<1.0	<40	<5.0	<2.0	<5.0	<5.0	**26 J**	**0.43 J**	**4.6 J**	**340**
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	**1.3 H**	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.52 J**	<5.0	**150 J**
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	NS	**1,500**	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	NS	**11**	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<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	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.9 J**	<2.0	<5.0	**0.59 J**
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	**0.89 J**	**0.88 J**	**1.7 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.4 J**	**0.11 J**	<5.0	**3.1 J**
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																					**3.4 J**	<2.0	<5.0	**2.7 J**
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**1.7 J**	**0.080 J**	<5.0	**2.2 J**
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																					**7.0 J**	<2.0	<5.0	**0.085 J**
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<5.0	<5.0	<5.0	**0.16 J**	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**2.7 J**	<2.0	<5.0	**0.11 J**
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																					**51**	**0.094 J**	<5.0	**14 J**
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**150**	**0.48 J**	<5.0	**7.5 J**
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																					**5.0 J**	<2.0	<5.0	**0.28 J**
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**9.4 J**	<2.0	<5.0	**0.35 J**
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																					**3.3 J**	<2.0	<5.0	<100
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	<2.0	<5.0	<100
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																					**3.6 J**	<2.0	<5.0	**0.67 J**
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.2 J**	<2.0	<5.0	**0.58 J**
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																					**3.8 J**	<2.0	<5.0	<100
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.2 J**	<2.0	<5.0	<100
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																					**23 J**	**0.15 J**	<5.0	**16 J**
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	<5.0	**15 J**
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																					<50	<2.0	<5.0	**1.4 J**
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	**0.45 J**
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																					**12 J**	<2.0	<5.0	**6.8 J**
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11	<4.2	<5.3	<5.3	<5.3	<1.1	<5.3	<5.3	<2.1	<5.3	<5.3	<50	<2.0	<5.0	<100
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																					<50	<2.0	<5.0	<100
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																					<50	<2.0	<5.0	<100
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100

Table 3
Summary Of Ground Water Sample Results

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

			Metals																
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			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<1.0	<1.0	<10	**2.8 J**	**2.1 J**	<0.005	**1,400**	<3.0	<50	**180**	NS	NS	NS	NS	NS	NS	NS
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013	<1.0	**2.8 J**	**71 J**	**12 J**	**90**		**51,000**	**330**	<50	**980**	NS	NS	NS	NS	NS	NS	NS
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<1.0	<1.0	**3.1 J**	**5.2 J**	**6.2 J**	**4.2 J**	**22,000**	<3.0	<50	**580**	NS	NS	NS	NS	NS	NS	NS
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013	<1.0	**2.4 J**	**22 J**	**7.2 J**	**58**		**41,000**	**940**	<50	**380 J**	NS	NS	NS	NS	NS	NS	NS
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<1.0	<1.0	<10	**3.6 J**	<4.0	**3.9 J**	**29,000**	**1.1 J**	<50	**260 J**	NS	NS	NS	NS	NS	NS	NS
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013	**0.1 J**	<1.0	**14**	**2.5 J**	**14**		**8,400**	**11**	<50	**130**	NS	NS	NS	NS	NS	NS	NS
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<10	<10	**4.3 J**	**5.9 J**	<40	**2.1 J**	**21,000**	<3.0	<50	**170 J**	NS	NS	NS	NS	NS	NS	NS
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013	<1.0	**2.4 J**	**12 J**	**6.2 J**	**31 J**		**30,000**	**120**	<50	**290 J**	NS	NS	NS	NS	NS	NS	NS
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<1.0	<1.0	**4.7 J**	**5.4 J**	<4.0	**3.7 J**	**26,000**	<3.0	<50	**270 J**	NS	NS	NS	NS	NS	NS	NS
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013	**2.0 J**	**42**	**320**	**51 J**	**1,100**		**170,000**	**3,200**	<50	**2,200**	NS	NS	NS	NS	NS	NS	NS
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<1.0	<1.0	**3.5 J**	**6.8 J**	<4.0	**60**	**23,000**	<3.0	<50	**420 J**	NS	NS	NS	NS	NS	NS	NS
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013	**0.10 J**	<1.0	**14**	**2.5 J**	**14**		**8,400**	**11**	<50	**130**	NS	NS	NS	NS	NS	NS	NS
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<1.0	<1.0	**4.3 J**	**5.9 J**	<4.0	**2.1 J**	**21,000**	<3.0	<50	**170 J**	NS	NS	NS	NS	NS	NS	NS
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013	**0.49 J**	**0.26 J**	**59**	**11 J**	**50**		**31,000**	**77**	<50	**610**	NS	NS	NS	NS	NS	NS	NS
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<1.0	<1.0	<10	**4.6 J**	<4.0	**4.5 J**	**38,000**	<3.0	<50	**1,500**	NS	NS	NS	NS	NS	NS	NS
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<1.0	**0.12 J**	**0.97 J**	**4.1 J**	**0.76 J**	<0.005	**11,000**	<3.0	<50	**270**	NS	NS	NS	NS	NS	NS	NS
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<1.0	**0.046 J**	**0.65 J**	**3.9 J**	<4.0	<0.005	**7,000**	<3.0	<50	**390**	NS	NS	NS	NS	NS	NS	NS
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<1.0	**0.053 J**	**1.4 J**	**3.9 J**	**1.5 J**	<0.005	**13,000**	**0.44 J**	<50	**660**	NS	NS	NS	NS	NS	NS	NS
SB-19	W-2330012-040114-ACN-004	4/1/2014	<1.0	<1.0	<10	**5.8 J**	**0.54 J**	**2.1**	**2,100**	**0.081 J**	<50	**930**	NS	NS	NS	NS	NS	NS	NS
SB-20	W-2330012-040114-ACN-005	4/1/2014	<1.0	<1.0	<10	**1.8 J**	**1.2 J**	**1.3**	**490**	**0.13 J**	<50	**98**	NS	NS	NS	NS	NS	NS	NS
SB-35	W-2330012-040114-ACN-006	4/1/2014	<1.0	<1.0	**3.6 J**	**3.2 J**	<4.0	**2.4 J**	**25,000**	**0.43 J**	<50	**550**	NS	NS	NS	NS	NS	NS	NS
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<1.0	<1.0	**1.6 J**	**6.4 J**	<4.0	**2.5 J**	**27,000**	**0.47 J**	<50	**260**	NS	NS	NS	NS	NS	NS	NS
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<1.0	<1.0	**1.4 J**	**6.6 J**	<4.0	**6.3 J**	**27,000**	**0.41 J**	<50	**250 J**	NS	NS	NS	NS	NS	NS	NS
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<1.0	<1.0	**3.5 J**	**8.8 J**	<4.0	**9.5 J**	**16,000**	**3.1 J**	<50	**530**	NS	NS	NS	NS	NS	NS	NS
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<1.0	<1.0	<10	**6.2 J**	<4.0	**5.2 J**	**2,200**	**0.47 J**	<50	**430**	NS	NS	NS	NS	NS	NS	NS
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<1.0	<1.0	**4.4 J**	**4.6 J**	**2.3 J**	**6.6 J**	**25,000**	**1.5 J**	<50	**300**	NS	NS	NS	NS	NS	NS	NS
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<1.0	<1.0	**1.8 J**	**3.1 J**	**2.7 J**	<0.005	**5,100**	**1.2 J**	<50	**960**	NS	NS	NS	NS	NS	NS	NS
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<1.0	<1.0	**0.95 J**	**6.7 J**	**2.4 J**	<0.005	**3,200**	**0.18 J**	<50	**1,200**	NS	NS	NS	NS	NS	NS	NS
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<1.0	<1.0	<10	**7.7 J**	**6.1 J**	<0.005	**280 J**	<3.0	<50	**410**	NS	NS	NS	NS	NS	NS	NS
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<1.0	<1.0	<10	**0.17 J**	**0.65 J**	**2.3 J**	**31 J**	**0.62 J**	<50	**59**	NS	NS	NS	NS	NS	NS	NS
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<1.0	**0.58 J**	<10	**2.6 J**	<4.0	**2.6 J**	**200 J**	**14 J**	<50	**110 J**	NS	NS	NS	NS	NS	NS	NS
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<1.0	<1.0	**1.1 J**	**1.5 J**	**4.0**	<0.005	**50 J**	**0.069 J**	<50	**22 J**	NS	NS	NS	NS	NS	NS	NS
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<1.0	**0.4 J**	**4.3 J**	**1.7 J**	**36 J**	**110**	**33 J**	**2.3 J**	<50	**51 J**	NS	NS	NS	NS	NS	NS	NS
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<1.0	**0.063 J**	**0.44 J**	**0.55 J**	**5.2 J**	**0.0012 J**	**170 J**	**0.25 J**	<50	**69**	NS	NS	NS	NS	NS	NS	NS
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<1.0	**0.23 J**	<10	**1.3 J**	**5.9 J**	<0.005	**250 J**	**0.77 J**	<50	**460 J**	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<1.0	**0.046 J**	**1.2 J**	**3.4 J**	**13 J**	<0.005	**4,100**	**1.7 J**	<50	**880**	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<1.0	<1.0	<10	**0.93 J**	**5.7 J**	<0.005	<100	**2.6 J**	<50	**6.2 J**	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	**5,900**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	**45 J**	NS	NS	**38**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<1.0	<1.0	**0.14 J**	**0.26 J**	**0.70 J**	<0.005	**24 J**	**0.27 J**	<50	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<1.0	<1.0	**0.59 J**	**0.79 J**	**0.57 J**	<0.005	**23 J**	**0.0053 J**	<50	**2.3 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013	<1.0	**0.049 J**	**0.28 J**	<20	**1.5 J**		**26 J**	**0.053 J**	<50	**0.38 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<1.0	<1.0	<10	**0.46 J**	**1.1 J**	<0.005	**21 J**	<3.0	<50	**1.0 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013	<1.0	<1.0	<10	<20	**0.72 J**		**12 J**	<3.0	<50	**0.13 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<1.0	<1.0	<10	**0.14 J**	<4.0	<0.005	**10 J**	<3.0	<50	**0.31 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014	**0.15 J**	<1.0	<1.0	**0.17 J**	**65 J**		**17 J**	**0.16 J**	<50	**0.17 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	**91 J**	<1.0	<1.0	**0.076 J**	**53 J**	**1.4 J**	**29 J**	**0.037 J**	<50	**1.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014	<1.0	<1.0	<1.0	<20	**0.56 J**		**8.4 J**	**0.054 J**	<50	**0.25 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<1.0	<1.0	<1.0	<20	<4.0	<0.005	**13 J**	<3.0	<50	**0.39 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014	<1.0	<1.0	<1.0	<20	**6.3**		<200	<3.0	<50	**0.53 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<1.0	**0.027 J**	<10	<20	**6.3**	<5.0	<200	<3.0	<50	**0.22 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014	<1.0	<1.0	<10	<20	**2.3 J**		**17 J**	<3.0	<50	**0.28 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<1.0	<1.0	<10	<20	**2.2 J**	<5.0	<200	<3.0	<50	**0.23 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014	<1.0	**0.091 J**	<10	<20	**6.2**		<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<1.0	**0.27 J**	**0.37 J**	<20	**5.9**	<5.0	**21 J**	<3.0	<50	**0.24 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014	<1.0	**0.032 J**	**0.30 J**	<20	**170**		**33 J**	<3.0	<50	**3.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<1.0	**0.034 J**	<10	<20	**160**	<5.0	**27 J**	<3.0	<50	**3.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014	<1.0	<1.0	<10	<20	<4.0		<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<1.0	<1.0	**0.13 J**	<20	<4.0	<5.0	<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015	<1.0	<1.0	<10	**0.21 J**	**83**		<200	<3.0	<50	**8.1 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<1.0	<1.0	<10	<20	**2.0 J**	<5.0	<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015	<1.0	<1.0	**0.21 J**	<20	**1.1 J**		<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<1.0	<1.0	**0.30 J**	<20	**1.4 J**	<5.0	<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015	<1.0	**0.027 J**	**0.17 J**	<20	**1.0 J**		<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<1.0	<1.0	**0.19 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50	<50	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{I3-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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																									
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	<3.0	<10	<10	<5.0	<10
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	<3.0	<10	<10	<5.0	<10
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	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	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015																									
Equipment Blank	W-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111915-AEP-027	11/19/2015																									
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	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	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	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	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	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	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	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	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	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	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	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	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	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	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	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017																									
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017																									
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018																									
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018																									
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018																									
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018																									
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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	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	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	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	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019																									
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	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	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	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	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	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																									

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)																			Aluminum	Antimony	Arsenic	Barium
			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol				
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																					**21 J**	<2.0	<5.0	**3.3 J**
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	<2.0	<5.0	**1.5 J**
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																					<50	<2.0	<5.0	<100
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<50	<2.0	<5.0	<100
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015																					<50	NS	NS	NS
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	NS	**1.3 J**	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015																					**2.7 J**	NS	NS	NS
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	NS	<50	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015																					**1.8 J**	NS	NS	NS
Equipment Blank	W-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1.4 J**	NS	NS	NS
Equipment Blank[A]	W-R2330017-111915-AEP-027	11/19/2015																					**1.4 J**	NS	NS	NS
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	NS	<50	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	NS	**67**	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	NS	**16 J**	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	NS	**91**	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	NS	**71**	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28**	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**48**	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	NS	**7.7 J**	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	NS	**89**	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017																					**5.1 J**			
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	NS	<50	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017																					**13 J**			
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	NS	**7.9 J**	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017																					**16 J**			
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	NS	**31 J**	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017																					**13 J**			
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	NS	**24 J**	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017																					**16 J**			
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	NS	**7.6 J**	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017																					**18 J**			
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	NS	**7.9 J**	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017																					**12**	NS	NS	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017																					**9.8 J**	NS	NS	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017																					**13**	NS	NS	NS
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018																					**5.5 J**	NS	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018																					**6.4 J**	NS	NS	NS
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018																					**3.1 J**	NS	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018																					**320**	NS	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20**	NS	NS	NS
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018																					**28**	NS	NS	NS
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	NS	**12**	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018																					**5.1**	NS	NS	NS
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	NS	**4.1**	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018																					**30**	NS	NS	NS
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	NS	**7.9**	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018																					**9.5**	NS	NS	NS
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	NS	**7.1**	NS	NS	NS
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019																					**20**	NS	NS	NS
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	NS	**7.6 J**	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019																					<2.6	NS	NS	NS
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	NS	<2.6	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019																					**300**	NS	NS	NS
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	NS	**7.1 J**	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019																					**1300**	NS	NS	NS
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	NS	**33**	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019																					<2.6	NS	NS	NS
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	NS	**4 J**	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																					**60**	NS	NS	NS

Table 3
Summary Of Ground Water Sample Results

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

			Metals																
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			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015	<1.0	<1.0	<10	<20	**1.4 J**		**22 J**	<3.0	<50	**0.26 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<1.0	<1.0	<10	<20	**1.3 J**	<5.0	<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015	<1.0	<1.0	**0.21 J**	<20	**1.4 J**		**43 J**	<3.0	<50	**0.20 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<1.0	<1.0	**0.21 J**	<20	**1.1 J**	<5.0	<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS		**33 J**	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	<200	NS	**66 J**	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS		**100 J**	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS		<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS	NS	<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS		<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	NS	NS	NS	NS	NS	NS	**88 J**	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041916-AEP-014	4/19/2016	NS	NS	NS	NS	NS	NS	**98 J**	NS	NS	**1.4 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042116-AFB-029	4/21/2016	NS	NS	NS	NS	NS	NS	**340**	NS	NS	**6.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-042216-JPM-035	4/22/2016	NS	NS	NS	NS	NS	NS	**460**	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEM-006	10/31/2016	NS	NS	NS	NS	NS	NS	**11**	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEP-011	11/1/2016	NS	NS	NS	NS	NS	NS	**120**	NS	NS	**3.1**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEM-020	11/2/2016	NS	NS	NS	NS	NS	NS	**150**	NS	NS	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	NS	NS	NS	NS	NS	NS	**19**	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110416-JPM-038	11/4/2016	NS	NS	NS	NS	NS	NS	**350**	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042417-DMS-005	4/24/2017							**7.2 J**	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042417-DMS-005	4/24/2017	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042517-JPM-014	4/25/2017							**52 J**	NS	NS	**1.1 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042517-JPM-014	4/25/2017	NS	NS	NS	NS	NS	NS	**93 J**	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042617-DMS-020	4/26/2017							**58 J**	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042617-DMS-020	4/26/2017	NS	NS	NS	NS	NS	NS	**100 J**	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042717-DMS-028	4/27/2017							**56 J**	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042717-DMS-028	4/27/2017	NS	NS	NS	NS	NS	NS	**140 J**	NS	NS	**8.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-042817-AFB-035	4/28/2017							**66 J**	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-042817-AFB-035	4/28/2017	NS	NS	NS	NS	NS	NS	**81 J**	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-050117-AFB-038	5/1/2017							**70 J**	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330022-050117-AFB-038	5/1/2017	NS	NS	NS	NS	NS	NS	**30 J**	NS	NS	**0.88 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	**1.2 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017	NS	NS	NS	NS	NS	NS	**90**	NS	NS	**0.79 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017	NS	NS	NS	NS	NS	NS	**38 J**	NS	NS	**1.8 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017	NS	NS	NS	NS	NS	NS	**190**	NS	NS	**2.3 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017	NS	NS	NS	NS	NS	NS	**91**	NS	NS	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017	NS	NS	NS	NS	NS	NS	**32 J**	NS	NS	**7.00**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018	NS	NS	NS	NS	NS	NS	**30 J**	NS	NS	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018	NS	NS	NS	NS	NS	NS	**42 J**	NS	NS	**1.7 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	**1.5 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018	NS	NS	NS	NS	NS	NS	**32 J**	NS	NS	**1.9 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018	NS	NS	NS	NS	NS	NS	<300	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	NS	NS	NS	NS	NS	NS	<300	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS	**74**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS	**460**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	**700**	NS	NS	**2.5**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS	**230**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	**39**	NS	NS	**0.33**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	**120**	NS	NS	**3.3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	**24**	NS	NS	**1.1**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	**35**	NS	NS	**0.61**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	**31**	NS	NS	**0.50**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**2.8 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	**220**	NS	NS	**0.71 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	**41 J**	NS	NS	**0.76 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	**270**	NS	NS	**0.67 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	**530**	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	**49 J**	NS	NS	**0.31 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**2600**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	**180**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	<15	NS	NS	**0.42**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	<15	NS	NS	**1.7**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	**330**	NS	NS	**3.6**	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	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol
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)	280 (E)	ID	45	260	370
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	10,000	NA	NA	NA	NA
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	41	ID	18	19	30 (M); 25
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	730	ID	NA	340	1,400
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)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV
Groundwater Concentration for Vapor Intrusion (GW_{IVcres}) (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	10,000 (d)	ID	78,000	940	NA
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	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07
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	70,000	ID	ID	ID	NA
ID	SAMPLE ID	SAMPLE DATE																							
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	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	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	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	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	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020																								
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020																								
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020																								
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020																								
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020																								
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020																								
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020																								
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020																								
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020																								
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020																								
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020																								
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020																								
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

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

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 D
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water V
Exceeds GSI Final Acute Value (FAV), also exceeds others

Table 3
Summary Of Ground Water Sample Results

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

			Semivolatile Organic Compounds (SVOCs)																					
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			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	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium
Residential Drinking Water Criteria (II)			370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85	ID	5,500	73,000	880	210 (S)	880	520	52	140 (S)	4,400	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)
GSI Final Acute Value (FAV)			1,400	2,700	ID	285	200	NA	NA	630	ID	72	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{IV,ing}$) (a)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			NA	ID	NA	NA	ID	ID	NA	ID	NA	ID	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																								
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	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019																					<8.0	NS	NS	NS
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	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																					<8.0	NS	NS	NS
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	NS	**9.5 J**	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019																					<8.0	NS	NS	NS
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	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019																					**21**	NS	NS	NS
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	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020																					**26**	NS	NS	NS
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.5**	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020																					**23**	NS	NS	NS
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.4**	NS	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020																					<8.0	NS	NS	NS
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020																					**22**	NS	NS	NS
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS

rinking Water Value (E)

alue (E)

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 Drink
Exceeds Generic Ground Water Surface Water Interface Criteria (III)
Exceeds Two or More DW (II), GSI (III) and/or Generic Health-Based Drinking Water Valu
Exceeds GSI Final Acute Value (FAV), also exceeds others

Table 3
Summary Of Ground Water Sample Results

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

			Metals															
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			Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)	Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Residential Drinking Water Criteria (II)			4.0 (A)	5.0 (A)	100 (A)	40	1,000 (E)	200 (A)	300 (E)	4.0 (L)	400,000	50 (E)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA	2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA	12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-res}) (a)			NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	**79**	NS	NS	**8.2**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	**60 J**	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	**66**	NS	NS	**9.4**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	**78 J**	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS

ing Water Value (E)

e (E)

Table 4
Total Depth to Bottom of Wells
and Estimated Sediment Accumulation

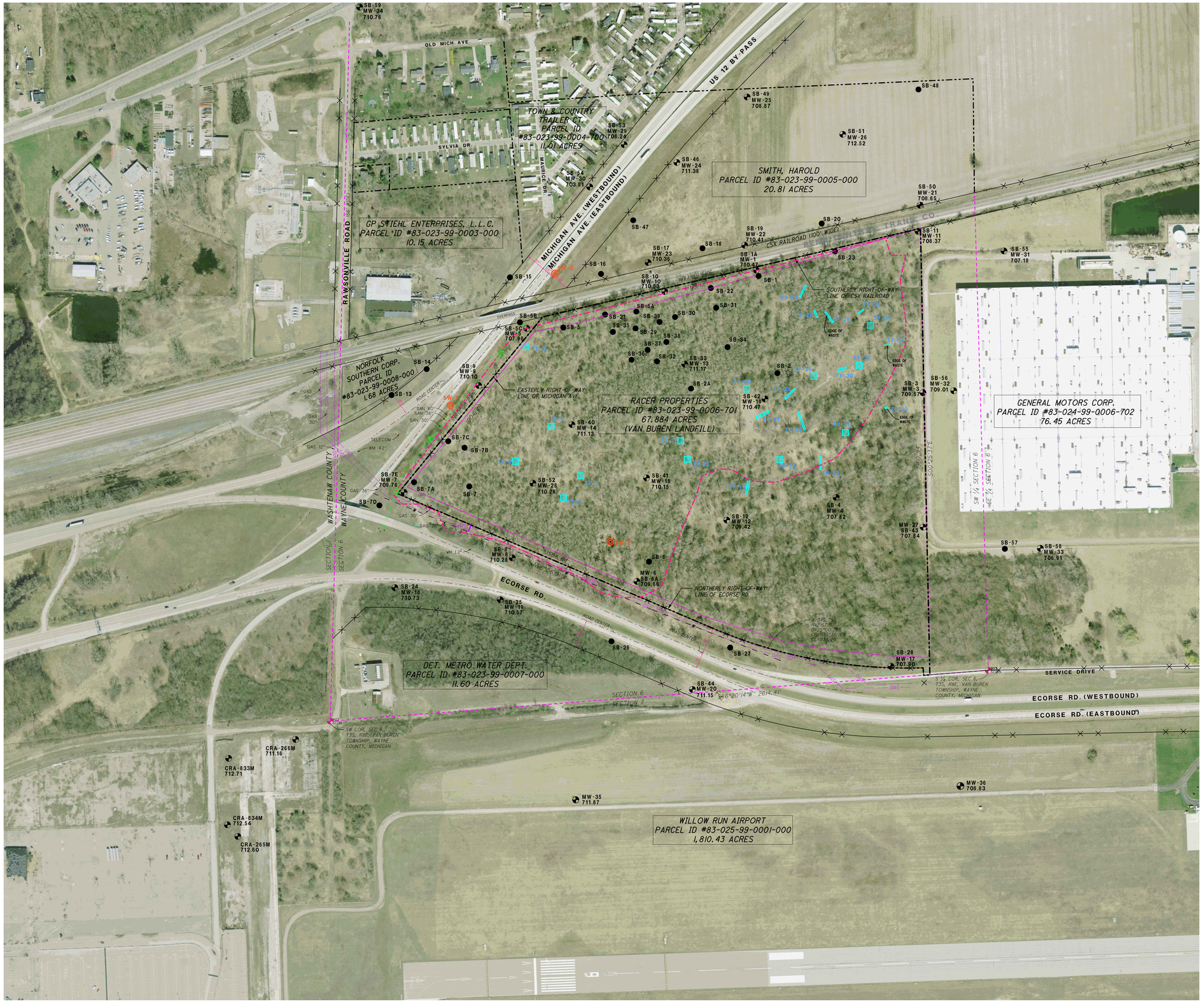
Van Buren Landfill Site
Van Buren Township, Wayne County, Michigan

Well ID	Total Depth of Well from TOC[3] (feet)	Total Depth of Well from TOC[3] (feet) 11/3/2020	Estimated Sediment Accumulation
MW-1	21.67	21.22	0.45
MW-3	14.80	13.62	1.18
MW-4	21.60	21.56	0.04
MW-5	30.02	29.69	0.33
MW-6	16.38	16.24	0.14
MW-7	8.81	8.86	-0.05
MW-8	7.78	7.57	0.21
MW-9	14.81	14.65	0.16
MW-10	23.45	23.34	0.11
MW-11	18.12	18.17	-0.05
MW-12	18.66	17.8	0.86
MW-13	25.94	25.16	0.78
MW-14	17.70	17.55	0.15
MW-15	15.72	16.49	-0.77
MW-16	16.28	16.55	-0.27
MW-17	17.84	17.73	0.11
MW-18	16.66	16.66	0.00
MW-19	14.63	14.39	0.24
MW-20	15.47	14.9	0.57
MW-21	15.36	14.5	0.86
MW-22	15.42	14.84	0.58
MW-23	15.74	14.99	0.75
MW-24	16.19	14.25	1.94
MW-25	16.52	16.06	0.46
MW-26	17.19	16.25	0.94
MW-27	13.97	13.8	0.17
MW-28	21.70	22.86	-1.16
MW-29	12.22	11.6	0.62
MW-30	12.36	12.48	-0.12
MW-31	8.99	9.00	-0.01
MW-32	9.5	8.56	0.94
MW-33	18.59	18.1	0.49
MW-34	18.89	13.35	5.54
MW-35	10.48	No Data	No Data
MW-36	10.29	No Data	No Data
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





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
- GROUND WATER ELEVATION CONTOUR (FEET ABOVE MSL)
- ST (3) — THREE EX. PARALLEL STORM SEWERS
- SURFACE WATER SAMPLE LOCATION
- SOIL BORING LOCATION
- 712.36 — MONITORING WELL LOCATION WITH GROUND WATER ELEVATION (FEET ABOVE MSL)
- 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.

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

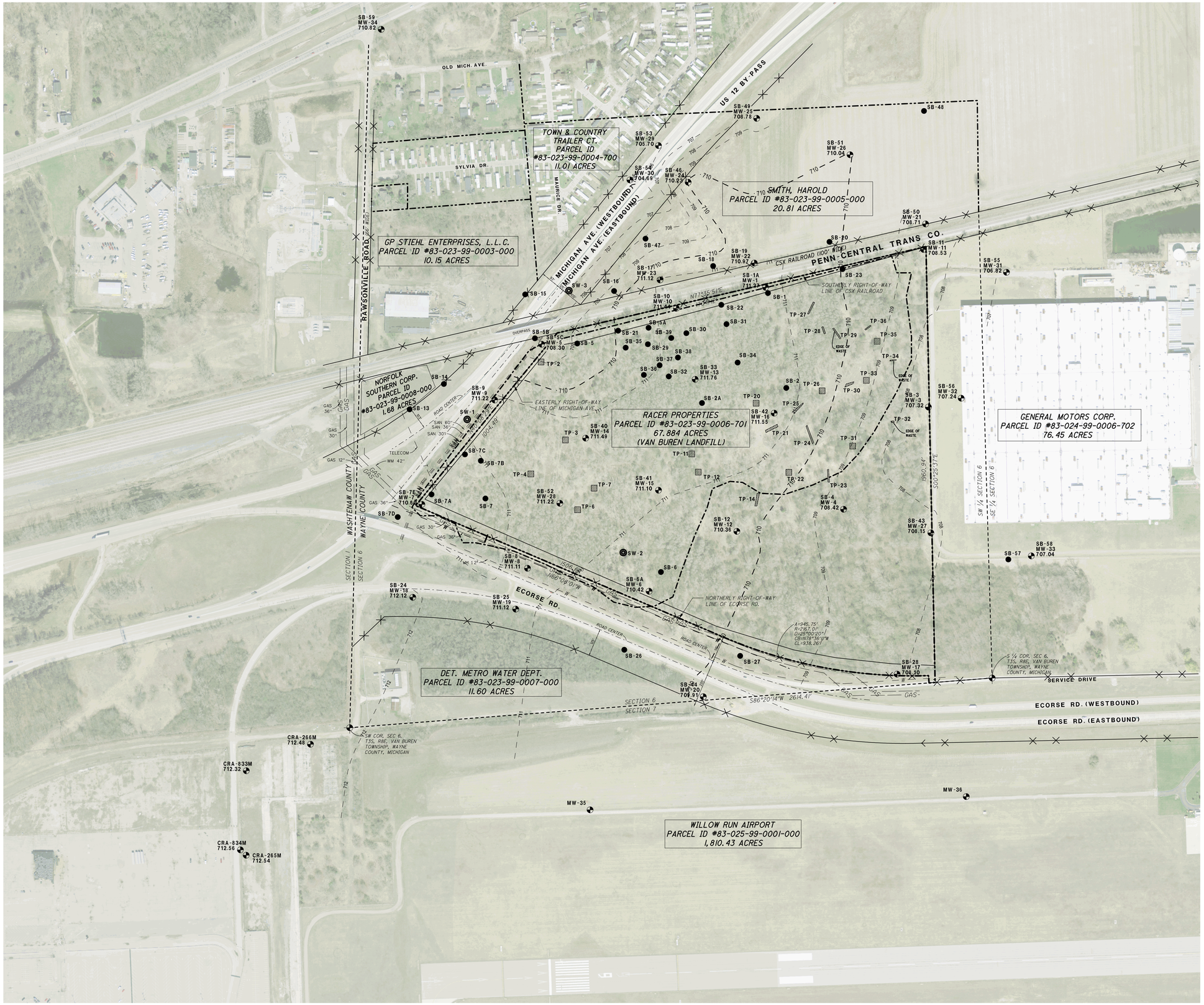
RACER

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

FIGURE 2
SITE MAP

8/28/2019

W:\Projects\Projects P-TX\R2330025\CAD\BASE\R2330025_Fig2_SITE _MAP.dgn



GRAPHIC SCALE
0' 200' 400'

LEGEND

- PROPERTY LINE
- R/W LINE
- FENCE
- EXTENT OF EARTH DISTRUBANCE BASED ON APRIL 26, 1970 AERIAL PHOTO
- EXISTING GAS MAIN
- EXISTING FIBER OPTIC CABLE
- EXISTING FIRE WATER
- EXISTING WATER MAIN
- GROUND WATER ELEVATION CONTOUR (FEET ABOVE MSL)
- ST (3) THREE EX. PARALLEL STORM SEWERS
- SURFACE WATER SAMPLE LOCATION
- SOIL BORING LOCATION
- 712.36 MONITORING WELL LOCATION WITH GROUND WATER ELEVATION (FEET ABOVE MSL)
- 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. MW-34, MW-35, & MW-36 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 (NOV. 2020)

12/18/2020

W:\Projects\Projects P-T\R2330026\CAD\SURVEY\R2330026.GW_Fig2_GW_Flow_Nov-20.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

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
- TEST PIT LOCATION
- TP-32

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	1/14/14	CJB	PHASE III SITE INVESTIGATION SAMPLING LOCATIONS

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

Revitalizing Auto Communities Environmental Response Trust

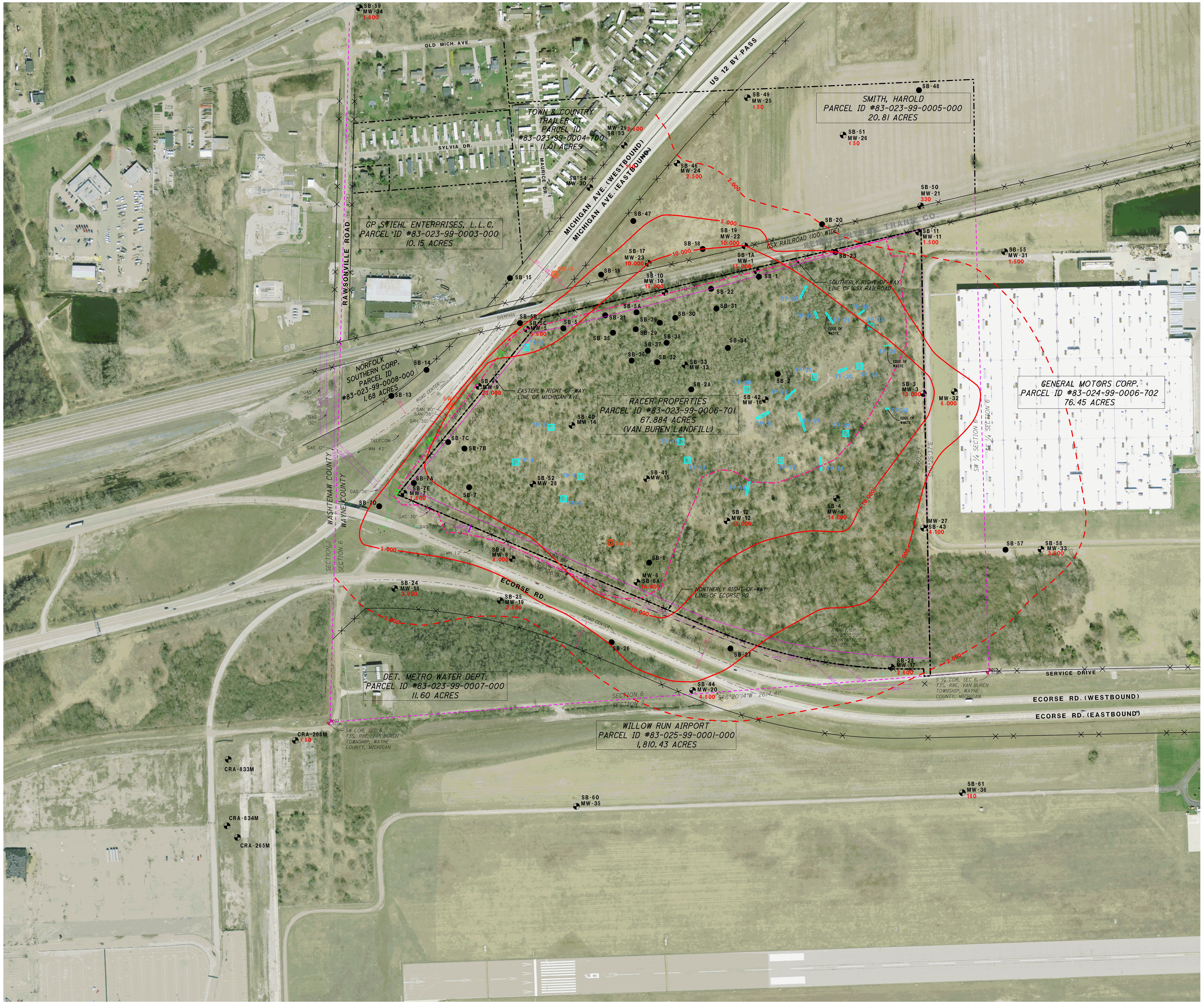
PAGER

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

FIGURE 3
MONITORING WELL ANALYTICAL SUMMARY THROUGH NOVEMBER 2020
SEMI-ANNUAL GROUNDWATER MONITORING (EXCEEDENCES ONLY)

1/27/2021

W:\Projects\Projects P-T\R2330026\CAD\BASE\R2330026.MW_Analytical_Summary FIG_3-November_2020.dgn



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
- 4,400 DISSOLVED IRON CONCENTRATION AT WELL LOCATION
- NS NOT SAMPLED
- 5,000 NON-RESIDENTIALHEALTH BASED DRINKING WATER VALVE (DISSOLVED IRON ISOCONTOUR (ug/L))
- 2,000 RESIDENTIAL HEALTH BASED DRINKING WATER VALVE (ug/L)

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-34, MW-35, & MW-36 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
RACER

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

FIGURE 4
DISSOLVED IRON ISOCONCENTRATION MAP
(NOVEMBER 2020)

3/1/2021

W:\Projects\Projects P-T\R2330026\CAD\BASE\R2330026.Dissolved_Iron_Isoconcentration_Map_Nov_2020.dgn

ATTACHMENT 1

LOW FLOW GROUND WATER FIELD SAMPLING FORMS

LOW FLOW GROUND WATER SAMPLING FORM

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

DATE: 11/2/20

PERSONNEL: KRM

OBSERVERS: Sunny, 36°F

DEPTH OF WELL: 9.00

SCREEN LENGTH: _____

TUBING TYPE: _____

SAMPLE LOCATION: MW-31

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: _____

DEPTH TO WATER LEVEL: 2.67

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
950	2.64	56.8	0.602	8.11	8.27	324	343	1.00		
955	2.64	57.3	0.609	3.54	7.94	313	266	1.75		
1000	2.65	57.5	0.621	2.41	7.67	298	161	2.25		
1005	2.65	57.6	0.633	1.99	7.47	284	111	3.00		
1010	2.65	57.7	0.643	1.82	7.38	277	84.0	3.50		
1015	2.65	57.8	0.648	1.74	7.33	270	58.2	4.00		
1020	2.65	58.0	0.654	1.63	7.31	263	37.9	4.50		
1025	2.65	57.9	0.658	1.97	7.28	256	23.5	5.00		
1030	2.65	57.8	0.659	1.57	7.27	250	18.9	5.50		
1035	2.65	57.9	0.661	1.48	7.25	245	17.2	6.00		
1040	2.65	57.9	0.662	1.48	7.25	241	17.0	6.50		

SAMPLE ID: R2330026-110220-KRM-001

SAMPLE DATE: 11/2/20

SAMPLE TIME: 1045

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: 11/2/20

PERSONNEL: KW

OBSERVERS: Sunny ~~38°F~~

DEPTH OF WELL: 8.56

SCREEN LENGTH: _____

TUBING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

SAMPLE LOCATION: MW-32

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: _____

DEPTH TO WATER LEVEL: 5.05

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%			
1115	5.12	56.5	1.71	7.33	6.97	354	183	.25		
1120	5.13	58.0	1.77	4.39	6.98	343	140	.50		
1125	5.12	59.1	1.84	2.09	7.04	296	76.9	1.00		
1130	5.17	59.3	1.84	1.83	7.08	274	65.2	1.50		
1135	5.17	59.4	1.86	1.62	7.10	250	25.5	2.00		
1140	5.17	59.6	1.85	1.60	7.11	235	15.1	2.50		
1145	5.17	59.4	1.85	1.52	7.13	223	12.4	3.00		
1150	5.17	59.2	1.85	1.56	7.13	211	10.8	3.50		
1155	5.17	59.0	1.85	1.48	7.14	204	10.5	4.00		
1200	5.17	59.2	1.85	1.46	7.14	200	9.9	4.50		

SAMPLE ID: WE2330026-110220-EFM-002

SAMPLE DATE: 11/2/20

SAMPLE TIME: 1205

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

SAMPLE LOCATION: MW-33

DATE: 11/2/20

PROJECT #:

PERSONNEL: KRM

SITE NAME:

OBSERVERS: partly cloudy 38°F

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 18.10

DEPTH TO WATER LEVEL: 4.87

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1230	5.10	59.7	769	6.77	7.73	276	930	0.00		
1235	5.09	60.7	253	3.36	7.50	252	290	0.50		
1240	5.09	61.2	1.80	3.01	7.45	246	16.7	1.00		
1245	5.10	61.3	1.86	2.68	7.39	233	50.3	1.50		
1250	5.10	61.5	1.91	1.65	7.35	210	24.6	2.00		
1255	5.10	61.7	1.92	1.50	7.34	195	21.1	2.75		
1300	5.10	61.7	1.95	1.38	7.35	177	20.3	3.50		
1305	5.10	61.7	1.95	1.47	7.34	176	19.5	4.75		
1310	5.10	61.7	1.95	1.39	7.34	167	18.9	5.00		

SAMPLE ID: W-R2330026-110220-KRM-003

SAMPLE DATE: 11/2/20

SAMPLE TIME: 1315

Notes: Equipment Blank taken after MW-33. W-R2330026-110220-KRM-004 @ 1330 11/2/20

[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: 11/4/20

SAMPLE LOCATION: ~~XXXXXX~~ CRA-26GM

PROJECT #: 82330026

SITE NAME: RACER

PERSONNEL: CRM

OBSERVERS: Sunny 53°F

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 12.05

DEPTH TO WATER LEVEL: 4.49

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE: Seri

CASING TYPE:

MONITORING EQUIPMENT: ~~Bladder Pump~~, 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%			
1030	4.51	57.3	10.21	100.1	9.00	289	73.6	0.00		
1035	4.53	57.8	~~0.535~~	4.48	7.97	334	63.7	0.35		
1040	4.54	58.1	0.541	3.44	7.65	349	58.2	0.60		
1045	4.54	58.4	0.549	2.72	7.36	361	36.0	0.85		
1050	4.54	58.6	0.551	2.50	7.28	365	19.3	1.15		
1055	4.54	58.8	0.555	2.19	7.19	370	12.0	1.50		
1100	4.54	59.0	0.558	2.81	7.16	371	11.1	1.80		
1105	4.54	59.2	0.562	1.88	7.13	373	10.1	2.10		
1110	4.54	59.4	0.563	1.81	7.12	373	9.5	2.40		
1115	4.54	59.5	0.565	1.78	7.09	375	8.9	2.68		

SAMPLE ID: W-82330026-110420-CRM-005

SAMPLE DATE: 11/4/20

SAMPLE TIME: ~~1115~~ 1120

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

SAMPLE LOCATION: MW-26

DATE: 11/4/20

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

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

OBSERVERS: _____

SITE CONDITIONS: Sunny 50°F

DEPTH OF WELL: 16.28

DEPTH TO WATER LEVEL: 9.88

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) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
940	9.88									
950	9.90	58.9	0.284	8.05	8.32	297	217	0.5		
955	9.90	59.2	0.297	6.44	7.82	315	113	0.8		
1000	9.90	59.3	0.297	6.70	7.75	316	107	1		
1005	9.90	59.3	0.309	6.17	7.65	319	76.6	1.2		
1010	9.90	59.4	0.300	6.03	7.59	320	59.0	1.5		
1015	9.90	59.5	0.310	5.93	7.55	321	59.4	1.7		
1020	9.90	59.6	0.302	5.	7.58	318	54.2	1.9		

SAMPLE ID: W-R2330026-110420-SSR-006

SAMPLE DATE: 11/4/2020

SAMPLE TIME: 1020

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

SAMPLE LOCATION: MW-21

DATE: 11/4/2020

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

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

OBSERVERS: _____

SITE CONDITIONS: Sunny 60°F

DEPTH OF WELL: 14.50

DEPTH TO WATER LEVEL: 8.90

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%			
1045	8.90									
1055	9.03	58.0	0.347	7.15	7.75	291	621	0.5		
1100	9.03	58.0	0.150	6.37	7.81	282	120	0.7		
1105	9.03	58.0	0.164	6.18	7.79	251	75.7	0.9		
1110	9.03	58.0	0.158	6.29	7.79	255	66.9	1.1		
1115	9.03	58.0	0.155	6.31	7.79	244	64.8	1.3		

SAMPLE ID: W-R2330026-110420-SSR-007

SAMPLE DATE: 11-4-2020

SAMPLE TIME: 1115

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

SAMPLE LOCATION: MW-22

DATE: 11-4-20

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

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

OBSERVERS: _____

SITE CONDITIONS: Sunny, 60°F

DEPTH OF WELL: 14.85

DEPTH TO WATER LEVEL: 7.93

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%			
1120	7.93									
1130	8.00	59.8	2.20	2.28	7.27	135	236	0.3		
1135	8.00	59.8	2.20	2.23	7.27	127	217	0.5		
1140	8.00	59.8	2.19	2.06	7.29	85	134	0.7		
1145	8.00	59.8	2.19	1.95	7.30	61	97.0	0.9		
1150	8.00	59.9	2.17	1.88	7.31	1	60.5	1.1		
1155	8.00	59.8	2.16	1.84	7.32	-38	58.7	1.3		
1200	8.00	59.8	2.15	1.81	7.32	-47	57.1	1.5		
1205	8.00	59.8	2.15	1.80	7.32	-44	51.8	1.7		

SAMPLE ID: W-R2330026-110420-SSR-008

SAMPLE DATE: 11-4-20

SAMPLE TIME: 1205

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

SAMPLE LOCATION: MW-23

DATE: 11-4-20

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

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

OBSERVERS: _____

SITE CONDITIONS: Sunny, 60s°F

DEPTH OF WELL: 15.00

DEPTH TO WATER LEVEL: 10.00

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) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1210										
1220	10.03	62.5	2.42	4.29	7.35	171	498	0.1		
1225	10.03	61.4	2.07	2.22	7.35	43	36.2	0.3		
1230	10.03	60.9	1.95	1.82	7.28	-43	17.2	0.5		
1235	10.03	61.0	1.94	1.78	7.28	-47	15.2	0.7		
1240	10.03	61.4	1.94	1.69	7.27	-58	14.7	0.9		

SAMPLE ID: W-R2330026-110420-SSR-009

SAMPLE DATE: 11/4/2020

SAMPLE TIME: 1240

Notes: *VOCs

[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-24

DATE: 11-4-20

PROJECT #: R2330024

PERSONNEL: ~~SSR~~ KRM

SITE NAME: RACER - Van Buren Landfill

OBSERVERS: _____

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

SITE CONDITIONS: Sunny, 60s°F

DEPTH OF WELL: 14.22

DEPTH TO WATER LEVEL: 10.05

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: Teflon Line PE

CASING TYPE: _____

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

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1255	10.05									
1310	10.25	65.9	0.968	4.37	7.15	398	368	0.0		
1315	10.26	65.8	0.958	3.33	7.00	405	346	0.10		
1320	10.26	66.6	0.965	2.21	7.01	397	199	0.40		
1325	10.26	66.7	0.968	1.79	7.05	377	146	0.60		
1330	10.26	66.6	0.980	1.71	7.08	355	108	0.90		
1335	10.26	66.7	0.986	1.55	7.09	338	64.0	1.20		
1340	10.26	66.9	0.991	1.46	7.10	306	34.9	1.50		
1345	10.26	66.9	0.991	1.82	7.12	274	27.0	1.85		
1350	10.26	66.9	0.995	1.35	7.15	246	22.9	2.25		
1355	10.26	66.8	0.994	1.28	7.16	211	15.6	2.50		
1400	10.26	66.9	0.994	1.26	7.17	199	13.0	2.75		
1405	10.26	66.9	0.991	1.21	7.19	180	11.2	3.10		

SAMPLE ID: W-R2330026-110420-~~SSR~~ KRM-010

SAMPLE DATE: 11/4/20

SAMPLE TIME: 1410

Notes: * VOCs ORP & Turb did not stabilize

[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-25

DATE: 11/4/2020

PROJECT #: R2330024

SITE NAME: RACER - Van Buren Landfill

PERSONNEL: SSR

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

OBSERVERS: _____

SITE CONDITIONS: Sunny, 65°F

DEPTH OF WELL: 116.05

DEPTH TO WATER LEVEL: 8.45

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) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1320	8.45									
1330	8.70	65.1	0.774	1.64	7.85	181	1000	0.3		
1335	8.72	64.6	0.744	1.51	7.62	182	156	0.5		
1340	8.72	64.7	0.741	1.51	7.59	183	136	0.7		
1345	8.72	64.4	0.736	1.47	7.54	183	72.3	0.9		
1350	8.72	64.4	0.726	1.45	7.48	182	27.7	1.2		
1355	8.72	64.3	0.726	1.43	7.42	182	23.6	1.5		
1400	8.72	64.3	0.725	1.41	7.42	182	22.0	1.7		

SAMPLE ID: W-R2330026-110420-SSR-011

SAMPLE DATE: 11/4/2020

SAMPLE TIME: 1400

Notes: *Equipment Blank taken after MW-25
W-R2330026-110420-SSR-012
1405 11/4/2020

[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: 11/5/20

PERSONNEL: KRM

OBSERVERS: _____

SAMPLE LOCATION: MW-6

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: cloudy 53°F

DEPTH OF WELL: 16.20

DEPTH TO WATER LEVEL: 8.10

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
735	8.19	64.5	2.23	12.11	7.97	292	0.0	0.0		
740	8.20	56.0	2.27	4.75	7.42	249	36.4	1.25		
745	8.21	56.1	2.30	3.15	7.23	150	14.5	1.60		
750	8.21	56.0	2.30	2.77	7.20	69	9.9	2.00		
755	8.21	56.1	2.31	2.49	7.19	3	9.1	2.75		
800	8.21	56.1	2.31	2.25	7.19	-40	9.7	3.25		
805	8.21	56.1	2.31	2.15	7.18	-68	9.0	3.75		
810	8.21	56.1	2.31	2.19	7.18	-67	8.4	4.25		
815	8.21	56.1	2.31	2.01	7.18	-73	8.1	4.75		

SAMPLE ID: W-R2330026-110520-KRM-013

SAMPLE DATE: 11/5/20

SAMPLE TIME: 8:20

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: 11/5/20

PERSONNEL: CRM

OBSERVERS: _____

SAMPLE LOCATION: MW-12

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: clady SS

DEPTH OF WELL: 17.80

SCREEN LENGTH: _____

TUBING TYPE: _____

DEPTH TO WATER LEVEL: 11.63

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
845	11.69	54.0	2.28	5.01	7.60	144	0.0	0.25		
850	11.69	54.1	2.33	2.51	7.35	68	750	0.50		
855	11.69	54.1	2.35	2.16	7.32	-18	429	0.75		
900	11.68	54.1	2.35	1.96	7.31	-54	301	1.00		
905	11.68	54.2	2.36	1.89	7.31	-70	215	1.50		
910	11.68	54.0	2.36	1.82	7.31	-78	128	1.80		
915	11.66	54.2	2.36	1.82	7.31	-82	121	2.25		
920	11.65	54.2	2.36	1.78	7.31	-84	118	2.50		
925										

SAMPLE ID: W-R2330026-110520-KCM-014

SAMPLE DATE: 11/5/20

SAMPLE TIME: 925

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: 11/5/20

PERSONNEL: JCM

OBSERVERS: _____

DEPTH OF WELL: 21.55

SCREEN LENGTH: _____

TUBING TYPE: _____

SAMPLE LOCATION: MW-4

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: partly cloudy 56°F

DEPTH TO WATER LEVEL: 15.30

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
~~0950~~	15.40	54.0	2.12	3.92	7.41	111	52.1	0.00		
955	15.40	53.8	2.16	2.25	7.28	55	29.7	0.50		
1000	15.40	53.8	2.18	1.96	7.26	1.0	18.0	1.00		
1005	15.40	53.8	2.19	1.85	7.26	-40	12.5	1.50		
1010	15.40	53.8	2.20	1.75	7.27	-53	10.5	2.00		
1015	15.40	53.8	2.19	1.71	7.27	-61	9.6	2.50		
1020	15.40	53.8	2.20	1.66	7.27	-63	9.2	3.00		

SAMPLE ID: W-R2330026-110520-KEM-015

SAMPLE DATE: 11/5/20

SAMPLE TIME: 1025

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: 11/5/20

PERSONNEL: KRM

OBSERVERS:

DEPTH OF WELL: 13.61

SCREEN LENGTH:

TUBING TYPE:

SAMPLE LOCATION: MW-27

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: overcast 60°F

DEPTH TO WATER LEVEL: 6.78

WELL DIAMETER:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, 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%			
1055	6.82	55.3	1.39	7.71	7.34	140	100	0.25		
1100	6.83	55.0	1.37	2.58	7.37	102	26.3	1.00		
1105	6.83	54.9	1.38	2.07	7.35	55	23.6	1.75		
1110	6.83	54.8	1.37	1.89	7.34	25	21.3	2.50		
1115	6.83	54.8	1.34	1.76	7.35	-10	18.9	3.25		
1120	6.83	54.8	1.34	1.72	7.35	-27	18.8	4.00		
1125	6.83	54.8	1.32	1.72	7.35	-38	16.4	4.75		
1130	6.83	54.6	1.30	1.63	7.35	-43	16.9	5.50		

SAMPLE ID: MW-27-20201105-1130-KRM-016

SAMPLE DATE: 11/5/20

SAMPLE TIME: 1135

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: 11/5/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 13.60

SCREEN LENGTH: _____

TUBING TYPE: _____

SAMPLE LOCATION: MW-3

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: overcast 61°F

DEPTH TO WATER LEVEL: 6.96

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
1225	6.99	58.3	7.85	5.61	7.32	214	413	0.00		
1230	7.00	56.0	2.79	2.54	7.32	178	119	0.75		
1235	7.00	55.7	2.66	2.25	7.32	73	62.3	1.50		
1240	7.00	55.6	2.57	2.21	7.31	26	41.4	2.25		
1245	7.00	55.5	2.55	2.20	7.30	-5	31.8	3.00		
1250	7.00	55.5	2.55	2.11	7.30	-25	23.8	3.50		
1255	7.00	55.6	2.56	2.09	7.30	-35	23.1	4.00		
1300	7.00	55.5	2.56	2.04	7.29	-42	21.3	4.50		
1305	7.00	55.6	2.57	2.01	7.29	-45	20.9	5.00		

SAMPLE ID: W-R2330026-110520-KRM-017

SAMPLE DATE: 11/5/20

SAMPLE TIME: 1310

Notes: Dup-1 taken at MW-3 @ 1315
W-R2330026-110520-KRM-018

[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

* Equipment Blank taken @ 1350
W-R2330026-110520-KRM-019

LOW FLOW GROUND WATER SAMPLING FORM

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

DATE: 11/6/20

SAMPLE LOCATION: MW-1

PROJECT #:

PERSONNEL: KRM

SITE NAME:

OBSERVERS:

SITE ADDRESS:

SITE CONDITIONS: Sunny 50°F

DEPTH OF WELL: 18.15

DEPTH TO WATER LEVEL: 9.80

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, 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%			
735	9.82	57.5	1.16	6.83	8.86	229	372	0.0		
740	9.82	56.8	0.970	3.67	8.23	222	149	0.25		
745	9.82	56.7	0.964	2.87	7.61	200	58.6	1.00		
750	9.83	56.7	0.974	2.54	7.47	185	31.7	1.50		
755	9.83	56.8	0.977	2.22	7.35	161	11.0	2.25		
800	9.83	56.7	0.971	2.08	7.30	142	5.4	3.00		
805	9.83	56.9	0.971	2.07	7.27	128	4.5	3.75		
810	9.83	56.9	0.972	2.00	7.26	132	5.4	4.50		

SAMPLE ID: W-R2330026-110620-ICEM-000

SAMPLE DATE: 11/6/20

SAMPLE TIME: 815

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: 11/6/20

SAMPLE LOCATION: MW-5

PERSONNEL: KRM

PROJECT #:

SITE NAME:

OBSERVERS:

SITE ADDRESS:

SITE CONDITIONS: SUNNY 54°F

DEPTH OF WELL: 29.67

DEPTH TO WATER LEVEL: 11.53

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
940	11.54	61.4	2.51	3.08	7.78	144	75.5	0.35		
945	11.55	61.6	2.51	2.65	7.75	76	86.4	0.65		
950	11.55	61.4	2.51	2.11	7.77	-39	100	1.25		
955	11.55	61.4	2.52	1.96	7.28	-66	90.3	1.75		
1000	11.55	61.4	2.52	1.82	7.29	-87	62.8	2.25		
1005	11.55	61.6	2.52	1.73	7.36	-96	50.1	2.50		
1010	11.55	61.6	2.51	1.66	7.32	-102	44.5	2.75		
1015	11.55	61.6	2.51	1.62	7.32	-105	45.0	3.25		

SAMPLE ID: W-R2330026-110620-KRM-021

SAMPLE DATE: 11/6/20

SAMPLE TIME: 1020

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: 11/6/20

PERSONNEL: ICM

OBSERVERS: _____

SAMPLE LOCATION: MW-10

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: Sunny 55°F

DEPTH OF WELL: 23.29

SCREEN LENGTH: _____

TUBING TYPE: _____

DEPTH TO WATER LEVEL: 16.47

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
1045	16.49	56.5	2.88	7.04	~~7.80~~	105	160	0.00		
1050	16.49	56.1	2.94	2.26	7.35	-70	34.9	0.75		
1055	16.49	56.1	2.93	1.87	7.31	-72	24.8	1.50		
1100	16.49	56.1	2.93	1.74	7.30	-83	21.3	2.25		
1105	16.49	56.1	2.92	1.65	7.30	-91	19.7	2.75		
1110	16.49	56.1	7.92	1.60	7.3	-93	18.9	3.25		

SAMPLE ID: W-2330026-110620-ICM-022

SAMPLE DATE: 11/6/20

SAMPLE TIME: 1115

Notes: "VOC's"

[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: 11/6/20

PERSONNEL: ICRM

OBSERVERS: _____

DEPTH OF WELL: 21.23

SCREEN LENGTH: _____

TUBING TYPE: _____

SAMPLE LOCATION: MW-1

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: Sunny 56 °F

DEPTH TO WATER LEVEL: 12.55

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
1145	12.60	57.5	2.49	4.44	7.54	70	24.7	0.25		
1150	12.59	57.4	2.51	2.78	7.37	-37	12.5	1.00		
1155	12.59	57.4	2.51	2.02	7.34	-71	11.2	1.50		
1200	12.59	57.4	2.51	1.82	7.32	-88	10.4	2.00		
1205	12.59	57.4	2.51	1.71	7.32	-93	10.4	2.50		
1210	12.59	57.4	2.51	1.70	7.32	-94	10.0	3.00		

SAMPLE ID: W-2330026-110620-ICRM-023

SAMPLE DATE: 11/6/20

SAMPLE TIME: 1215

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: 11/6/20

PERSONNEL: KRM

OBSERVERS: _____

DEPTH OF WELL: 14.67

SCREEN LENGTH: _____

TUBING TYPE: _____

SAMPLE LOCATION: MW-9

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: Sunny 60°F

DEPTH TO WATER LEVEL: 10.27

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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	10.30	59.7	2.31	5.80	7.61	70	334	0.25		
1240	10.31	59.3	2.30	2.70	7.40	-53	147	0.50		
1245	10.31	59.3	2.30	1.96	7.32	-85	72.2	1.25		
1250	10.31	59.3	2.30	1.76	7.30	-96	47.3	2.00		
1255	10.31	59.3	2.30	1.63	7.29	-102	41.5	2.75		
1300	10.31	59.4	2.30	1.60	7.29	-104	40.1	3.50		

SAMPLE ID: W-R2330026-110620-KRM-0024

SAMPLE DATE: 11/6/20

SAMPLE TIME: 1305

Notes: Equipment Blank taken @ 1330
W-R2330026-110620-KRM-0025

[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: 11/9/20

PERSONNEL: KAM

OBSERVERS: _____

DEPTH OF WELL: 8.90

SCREEN LENGTH: _____

TUBING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

SAMPLE LOCATION: MW-7

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: Partly cloudy 50°F

DEPTH TO WATER LEVEL: 6.31

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%			
730	1' Below Bladder	56.7	2.10	18.21	8.10	115	150	0.15		
735	Top of Bladder	56.4	2.31	4.18	7.20	-130	56.3	0.50		
740	Top of Bladder	56.2	2.61	3.17	7.50	-153	4.4	0.75		
745	|	56.1	2.72	2.64	7.33	-150	0.0	1.00		
750	|	56.1	2.75	2.41	7.26	-146	0.0	1.50		
755	|	56.1	2.78	2.19	7.21	-142	0.0	2.00		
800	|	56.1	2.80	2.06	7.19	-139	0.0	2.50		

SAMPLE ID: VC2330026-110920-KAM 026

SAMPLE DATE: 11/9/20

SAMPLE TIME: 805

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: 11/9/20

SAMPLE LOCATION: MW-8

PERSONNEL: KEM

OBSERVERS: _____

PROJECT #: _____

SITE NAME: _____

SITE ADDRESS: _____

SITE CONDITIONS: Partly cloudy 52°F

DEPTH OF WELL: 7.55

DEPTH TO WATER LEVEL: 2.35

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
840	2.40	54.2	2.37	1.00	7.48	-40	786	0.25		
845	2.40	54.0	2.40	2.83	7.30	-66	180	0.60		
850	2.40	54.0	2.46	2.27	7.24	-77	160	1.00		
855	2.40	53.9	2.39	2.08	7.23	-83	106	1.50		
900	2.40	53.9	2.39	1.93	7.22	-89	117	2.00		
905	2.40	54.0	2.38	1.87	7.22	-91	63.2	2.50		
910	2.40	54.0	2.37	1.85	7.22	-93	43.0	3.00		
915	2.40	54.0	2.38	1.78	7.23	-96	37.3	3.50		
920	2.40	54.1	2.38	1.74	7.23	-97	33.2	4.00		
925	2.40	54.2	2.39	1.71	7.23	-98	33.1	4.50		

SAMPLE ID: W-2330026-110920-KEM-027

SAMPLE DATE: 11/9/20

SAMPLE TIME: 930

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: 11/9/20

PERSONNEL: ICRM

OBSERVERS: _____

SAMPLE LOCATION: MW-17

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: sunny 55°F

DEPTH OF WELL: 17.77

DEPTH TO WATER LEVEL: 9.00

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
955	9.04	55.0	2.14	6.21	7.69	180	0.0	0.00		
1000	9.03	56.5	1.57	2.65	7.56	-36	202	0.25		
1005	9.04	56.7	1.40	2.27	7.40	-54	54.1	0.65		
1010	9.04	56.8	1.38	2.02	7.36	-60	38.8	0.90		
1015	9.04	56.9	1.38	2.04	7.34	-67	38.2	1.15		
1020	9.04	57.0	1.38	1.95	7.33	-69	36.0	1.40		
~~1025~~										

SAMPLE ID: W-R2330026-110920-ICRM-0258

SAMPLE DATE: 11/9/20

SAMPLE TIME: 1025

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: 11/9/20

SAMPLE LOCATION: MW-K6

PERSONNEL: KRM

OBSERVERS: _____

PROJECT #: _____

SITE NAME: _____

SITE ADDRESS: _____

SITE CONDITIONS: sunny 59°F

DEPTH OF WELL: 16.55

DEPTH TO WATER LEVEL: 3.86

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
1055	3.84	57.8	4.43	3.66	7.44	154	8.0	0.000		
1100	[redacted] 4.0	56.4	4.69	6.44	7.50	88	0.0	0.25		
1105	[redacted] 4.46	56.4	4.03	2.25	7.49	0.0	0.0	0.75		
1110	4.51	56.1	3.07	2.27	7.49	-26	590	1.25		
1115	4.61	56.0	2.79	1.95	7.42	-38	298	1.75		
1120	4.61	55.9	2.75	1.84	7.37	-51	108	2.25		
1125	4.61	55.9	2.70	2.04	7.36	-60	71.7	2.75		
1130	4.61	55.9	2.78	1.83	7.35	-64	62.0	3.50		
1135	4.61	55.9	2.76	1.74	7.34	-68	68.6	4.25		
1140	4.61	56.0	2.77	1.72	7.35	-71	66.9	5.000		

SAMPLE ID: W-P2330026-110920-KRM-029

SAMPLE DATE: 11/9/20

SAMPLE TIME: 1145

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: 11/9/20

SAMPLE LOCATION: MW-19

PERSONNEL: KRM

PROJECT #:

SITE NAME:

OBSERVERS:

SITE ADDRESS:

SITE CONDITIONS: Sunny 64°F

DEPTH OF WELL: 14.40

DEPTH TO WATER LEVEL: 4.30

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, Water Level Meter

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	COND. (µS/cm) +/- 3%	DO (mg/L)[1] +/- 10%	Ph +/- 0.1	ORP (mV) +/- 10 mV	TURB. (NTU)[2] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1225	4.45	58.9	4.10	4.35	7.58	190	0.0	0.25		
1230	4.43	58.7	3.99	2.33	7.47	142	896	1.00		
1235	4.43	58.2	3.90	1.91	7.44	84	294	1.75		
1240	4.44	58.2	3.89	1.76	7.42	46	194	2.50		
1245	4.44	58.2	3.90	1.68	7.40	13	160	3.25		
1250	4.44	58.2	3.89	1.58	7.39	-22	127	4.00		
1255	4.44	58.2	3.87	1.56	7.39	-41	81.9	4.75		
1300	4.44	58.1	3.87	1.52	7.38	-55	73.4	5.50		
1305	4.44	58.1	3.85	1.48	7.37	-63	63.1	6.25		
1310	4.44	58.1	3.84	1.45	7.37	-68	51.0	7.00		
1315	4.44	58.1	3.83	1.43	7.36	-73	55.9	7.75		

SAMPLE ID: WR2330026-110920-KRM-030

SAMPLE DATE: 11/9/20

SAMPLE TIME: 1320

Notes: Equipment Blank take Here @ 1330
WR2330026-110920-KRM-031

[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-20

DATE: 11/10/20

PROJECT #:

SITE NAME:

PERSONNEL: SSR

SITE ADDRESS:

OBSERVERS:

SITE CONDITIONS: Sunny, 60s °F

DEPTH OF WELL: 14.90

DEPTH TO WATER LEVEL: 6.70

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, 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%			
955										
1005	6.81	60.2	1.86	2.51	7.52	181	613	0.5		
1010	6.81	60.0	1.86	2.16	7.35	111	465	0.8		
1015	6.81	60.0	1.86	2.09	7.34	100	390	1		
1020	6.81	60.0	1.86	1.99	7.30	70	296	1.3		
1025	6.81	60.0	1.86	1.90	7.27	44	304	1.6		
1030	6.81	60.0	1.86	1.86	7.25	33	330	2		
1035	6.81	60.0	1.87	1.87	7.24	32	329	2.2		

SAMPLE ID: W-R2330026-111020-SSR-032

SAMPLE DATE: 11/10/20

SAMPLE TIME: 1035

Notes: * Dup taken here @ 1040
W-R2330026-111020-SSR-033

[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-29

DATE: 11/10/20

PROJECT #:

SITE NAME:

PERSONNEL: SSR

SITE ADDRESS:

OBSERVERS:

SITE CONDITIONS: Sunny 65°F

DEPTH OF WELL: 11.70

DEPTH TO WATER LEVEL: 4.80

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, 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%			
1050										
1100	5.48	61.4	0.741	1.82	7.72	-65	1000	0.3		
1105	5.48	60.8	0.759	1.45	7.52	-96	291	0.5		
1110	5.48	60.7	0.787	1.43	7.44	-95	275	0.7		
1115	5.48	60.7	0.789	1.43	7.43	-94	296	0.9		

SAMPLE ID: W.R2330026-111020-SSR-034

SAMPLE DATE: 11/10/20

SAMPLE TIME: 1115

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: 11/10/20

PERSONNEL: SSR

OBSERVERS: _____

SAMPLE LOCATION: MW-30 / 1

PROJECT #:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: Sunny, 65°F

DEPTH OF WELL: 12.48

SCREEN LENGTH: _____

TUBING TYPE: _____

DEPTH TO WATER LEVEL: 4.17

WELL DIAMETER: _____

CASING TYPE: _____

MONITORING EQUIPMENT: Bladder Pump, 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%			
1135										
1145	7.72	60.1	0.420	2.28	7.56	190	56.1	0.6		
1150	8.10	60.2	0.420	2.07	7.53	184	40.6	0.8		
1155	8.10	60.2	0.432	1.80	7.52	154	19.8	1		
1200	8.10	60.3	0.445	1.61	7.51	131	25.3	1.3		
1205	8.10	60.5	0.443	1.54	7.55	129	29.8	1.5		
1210	8.10	60.7	0.439	1.63	7.52	120	35.0	2		

SAMPLE ID: W-R2330026-111020-SSR-035

SAMPLE DATE: 11/10/20

SAMPLE TIME: 1210

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: 11/10/20

SAMPLE LOCATION: MW-34

PROJECT #:

SITE NAME:

PERSONNEL: SSR

SITE ADDRESS:

OBSERVERS:

SITE CONDITIONS: Sunny, 70°F

DEPTH OF WELL: 13.40

DEPTH TO WATER LEVEL: 4.48

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, 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%			
1230										
1240	5.21	59.3	2.94	4.70	7.52	105	267	0.3		
1245	5.21	58.8	2.09	3.73	7.56	92	46.1	0.5		
1250	5.21	58.9	2.13	3.77	7.56	94	34.0	0.7		
1255	5.21	58.8	2.15	3.91	7.58	100	38.6	0.9		

SAMPLE ID: W-R2330026-111020-SSR-036

SAMPLE DATE: 11/10/20

SAMPLE TIME: 1255

Notes: EQuipment Blank W-R2330026-111020-SSR-037
Taken @ 1300

[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

23-Nov-2020

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

Re: **RACER - Van Buren Landfill** Work Order: **20111139**

Dear Jason,

ALS Environmental received 37 samples on 12-Nov-2020 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 62.

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

Certificate No: MN 026-999-449

ALS Group, USA

Date: 23-Nov-20

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Work Order: **20111139**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
20111139-01	W-R2330026-110220-KRM-001	Groundwater		11/2/2020 10:45	11/12/2020 08:00	☐
20111139-02	W-R2330026-110220-KRM-002	Groundwater		11/2/2020 12:05	11/12/2020 08:00	☐
20111139-03	W-R2330026-110220-KRM-003	Groundwater		11/2/2020 13:15	11/12/2020 08:00	☐
20111139-04	W-R2330026-110220-KRM-004	Groundwater		11/2/2020 13:30	11/12/2020 08:00	☐
20111139-05	W-R2330026-110420-KRM-005	Groundwater		11/4/2020 11:20	11/12/2020 08:00	☐
20111139-06	W-R2330026-110420-SSR-006	Groundwater		11/4/2020 10:20	11/12/2020 08:00	☐
20111139-07	W-R2330026-110420-SSR-007	Groundwater		11/4/2020 11:15	11/12/2020 08:00	☐
20111139-08	W-R2330026-110420-SSR-008	Groundwater		11/4/2020 12:05	11/12/2020 08:00	☐
20111139-09	W-R2330026-110420-SSR-009	Groundwater		11/4/2020 12:40	11/12/2020 08:00	☐
20111139-10	W-R2330026-110420-KRM-010	Groundwater		11/4/2020 14:10	11/12/2020 08:00	☐
20111139-11	W-R2330026-110420-SSR-011	Groundwater		11/4/2020 14:00	11/12/2020 08:00	☐
20111139-12	W-R2330026-110420-SSR-012	Groundwater		11/4/2020 14:05	11/12/2020 08:00	☐
20111139-13	W-R2330026-110520-KRM-013	Groundwater		11/5/2020 08:20	11/12/2020 08:00	☐
20111139-14	W-R2330026-110520-KRM-014	Groundwater		11/5/2020 09:25	11/12/2020 08:00	☐
20111139-15	W-R2330026-110520-KRM-015	Groundwater		11/5/2020 10:25	11/12/2020 08:00	☐
20111139-16	W-R2330026-110520-KRM-016	Groundwater		11/5/2020 11:35	11/12/2020 08:00	☐
20111139-17	W-R2330026-110520-KRM-017	Groundwater		11/5/2020 13:10	11/12/2020 08:00	☐
20111139-18	W-R2330026-110520-KRM-018	Groundwater		11/5/2020 13:15	11/12/2020 08:00	☐
20111139-19	W-R2330026-110520-KRM-019	Groundwater		11/5/2020 13:50	11/12/2020 08:00	☐
20111139-20	W-R2330026-110620-KRM-020	Groundwater		11/6/2020 08:15	11/12/2020 08:00	☐
20111139-21	W-R2330026-110520-KRM-021	Groundwater		11/6/2020 10:20	11/12/2020 08:00	☐
20111139-22	W-R2330026-110520-KRM-022	Groundwater		11/6/2020 11:15	11/12/2020 08:00	☐
20111139-23	W-R2330026-110520-KRM-023	Groundwater		11/6/2020 12:15	11/12/2020 08:00	☐
20111139-24	W-R2330026-110520-KRM-024	Groundwater		11/6/2020 13:05	11/12/2020 08:00	☐
20111139-25	W-R2330026-110520-KRM-025	Groundwater		11/6/2020 13:30	11/12/2020 08:00	☐
20111139-26	W-R2330026-110920-KRM-026	Groundwater		11/9/2020 08:05	11/12/2020 08:00	☐
20111139-27	W-R2330026-110920-KRM-027	Groundwater		11/9/2020 09:30	11/12/2020 08:00	☐
20111139-28	W-R2330026-110920-KRM-028	Groundwater		11/9/2020 10:25	11/12/2020 08:00	☐
20111139-29	W-R2330026-110920-KRM-029	Groundwater		11/9/2020 11:45	11/12/2020 08:00	☐
20111139-30	W-R2330026-110920-KRM-030	Groundwater		11/9/2020 13:20	11/12/2020 08:00	☐
20111139-31	W-R2330026-110920-KRM-031	Groundwater		11/9/2020 13:30	11/12/2020 08:00	☐
20111139-32	W-R2330026-111020-SSR-032	Groundwater		11/10/2020 10:35	11/12/2020 08:00	☐
20111139-33	W-R2330026-111020-SSR-033	Groundwater		11/10/2020 10:40	11/12/2020 08:00	☐
20111139-34	W-R2330026-111020-SSR-034	Groundwater		11/10/2020 11:15	11/12/2020 08:00	☐
20111139-35	W-R2330026-111020-SSR-035	Groundwater		11/10/2020 12:10	11/12/2020 08:00	☐
20111139-36	W-R2330026-111020-SSR-036	Groundwater		11/10/2020 12:55	11/12/2020 08:00	☐
20111139-37	W-R2330026-111020-SSR-037	Groundwater		11/10/2020 13:00	11/12/2020 08:00	☐

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
WorkOrder: **20111139**

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:	20111139

Case Narrative

Samples for the above noted Work Order were received on 11/12/2020. 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:
Batch R302934A, Method SW8260C, Sample VLCSW2-201117: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for this analyte: bromomethane

Metals:
No other deviations or anomalies were noted.

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110220-KRM-001
Collection Date: 11/2/2020 10:45 AM

Work Order: 20111139
Lab ID: 20111139-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.036**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:26
Iron	**1.6**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:26
Manganese	**0.46**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:26
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/18/2020 23:28
Iron	**1.5**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:28
Manganese	**0.59**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:28

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-R2330026-110220-KRM-002
Collection Date: 11/2/2020 12:05 PM

Work Order: 20111139
Lab ID: 20111139-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/18/2020 23:29
Iron	**5.5**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:29
Manganese	**0.091**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:29
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/18/2020 23:31
Iron	**6.0**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:31
Manganese	**0.11**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:31

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-R2330026-110220-KRM-003
Collection Date: 11/2/2020 01:15 PM

Work Order: 20111139
Lab ID: 20111139-03
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.030**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:33
Iron	**4.1**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:33
Manganese	**0.069**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:33
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/18/2020 23:38
Iron	**3.9**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:38
Manganese	**0.067**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:38

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110220-KRM-004
Collection Date: 11/2/2020 01:30 PM

Work Order: 20111139
Lab ID: 20111139-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/18/2020 23:40
Iron	U		0.050	0.080	mg/L	1	11/18/2020 23:40
Manganese	U		0.0025	0.0050	mg/L	1	11/18/2020 23:40
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/18/2020 23:41
Iron	U		0.050	0.080	mg/L	1	11/18/2020 23:41
Manganese	U		0.0025	0.0050	mg/L	1	11/18/2020 23:41

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110420-KRM-005
Collection Date: 11/4/2020 11:20 AM

Work Order: 20111139
Lab ID: 20111139-05
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.21**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:43
Iron	**2.2**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:43
Manganese	**0.15**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:43
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/18/2020 23:45
Iron	U		0.050	0.080	mg/L	1	11/18/2020 23:45
Manganese	**0.025**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:45

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110420-SSR-006
Collection Date: 11/4/2020 10:20 AM

Work Order: 20111139
Lab ID: 20111139-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.56**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:46
Iron	**0.84**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:46
Manganese	**0.034**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:46
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.016**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:48
Iron	U		0.050	0.080	mg/L	1	11/18/2020 23:48
Manganese	**0.022**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:48

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110420-SSR-007
Collection Date: 11/4/2020 11:15 AM

Work Order: 20111139
Lab ID: 20111139-07
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.55**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:50
Iron	**0.87**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:50
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:50
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.031**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:51
Iron	**0.33**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:51
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:51

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-R2330026-110420-SSR-008
Collection Date: 11/4/2020 12:05 PM

Work Order: 20111139
Lab ID: 20111139-08
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.33**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:53
Iron	**11**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:53
Manganese	**0.098**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:53
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.17**		**0.0080**	**0.010**	**mg/L**	1	11/18/2020 23:58
Iron	**10**		**0.050**	**0.080**	**mg/L**	1	11/18/2020 23:58
Manganese	**0.087**		**0.0025**	**0.0050**	**mg/L**	1	11/18/2020 23:58

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-R2330026-110420-SSR-009
Collection Date: 11/4/2020 12:40 PM

Work Order: 20111139
Lab ID: 20111139-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.15**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:00
Iron	**12**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:00
Manganese	**0.10**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:00
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:02
Iron	**10**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:02
Manganese	**0.090**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:02
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **SJB**
BatchID: R302934							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/18/2020 04:45
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/18/2020 04:45
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/18/2020 04:45
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/18/2020 04:45
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/18/2020 04:45
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/18/2020 04:45
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	11/18/2020 04:45
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/18/2020 04:45
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/18/2020 04:45
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/18/2020 04:45
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/18/2020 04:45
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/18/2020 04:45
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/18/2020 04:45
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/18/2020 04:45
2-Butanone	U		0.52	25	µg/L	1	11/18/2020 04:45
2-Hexanone	U		0.59	50	µg/L	1	11/18/2020 04:45
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	11/18/2020 04:45
Acetone	U		6.2	50	µg/L	1	11/18/2020 04:45
Benzene	**2.5**		**0.46**	**1.0**	**µg/L**	1	11/18/2020 04:45
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/18/2020 04:45
Bromoform	U		0.56	1.0	µg/L	1	11/18/2020 04:45
Bromomethane	U		0.90	5.0	µg/L	1	11/18/2020 04:45
Carbon disulfide	U		0.49	5.0	µg/L	1	11/18/2020 04:45
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/18/2020 04:45
Chlorobenzene	**69**		**0.40**	**1.0**	**µg/L**	1	11/18/2020 04:45
Chloroethane	U		0.68	5.0	µg/L	1	11/18/2020 04:45

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-R2330026-110420-SSR-009
Collection Date: 11/4/2020 12:40 PM

Work Order: 20111139
Lab ID: 20111139-09
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	11/18/2020 04:45
Chloromethane	U		0.83	5.0	µg/L	1	11/18/2020 04:45
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/18/2020 04:45
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/18/2020 04:45
Cyclohexane	U		0.63	1.0	µg/L	1	11/18/2020 04:45
Dibromochloromethane	U		0.40	5.0	µg/L	1	11/18/2020 04:45
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	11/18/2020 04:45
Ethylbenzene	U		0.34	1.0	µg/L	1	11/18/2020 04:45
Isopropylbenzene	U		0.35	5.0	µg/L	1	11/18/2020 04:45
Methyl acetate	U		0.59	10	µg/L	1	11/18/2020 04:45
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	11/18/2020 04:45
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/18/2020 04:45
Methylene chloride	U		0.86	5.0	µg/L	1	11/18/2020 04:45
Styrene	U		0.33	1.0	µg/L	1	11/18/2020 04:45
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/18/2020 04:45
Toluene	U		0.45	1.0	µg/L	1	11/18/2020 04:45
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/18/2020 04:45
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/18/2020 04:45
Trichloroethene	U		0.43	1.0	µg/L	1	11/18/2020 04:45
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/18/2020 04:45
Vinyl chloride	U		0.53	1.0	µg/L	1	11/18/2020 04:45
Xylenes, Total	U		0.81	3.0	µg/L	1	11/18/2020 04:45
Surr: 1,2-Dichloroethane-d4	*98.6*			*75-120*	*%REC*	1	11/18/2020 04:45
Surr: 4-Bromofluorobenzene	*95.6*			*80-110*	*%REC*	1	11/18/2020 04:45
Surr: Dibromofluoromethane	*104*			*85-115*	*%REC*	1	11/18/2020 04:45
Surr: Toluene-d8	*91.6*			*85-110*	*%REC*	1	11/18/2020 04:45

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-R2330026-110420-KRM-010
Collection Date: 11/4/2020 02:10 PM

Work Order: 20111139
Lab ID: 20111139-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167929							
Aluminum	**0.27**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:03
Iron	**16**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:03
Manganese	**0.85**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:03
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:10
Iron	**2.5**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:10
Manganese	**0.74**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:10
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **SJB**
BatchID: R302934							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/18/2020 05:05
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/18/2020 05:05
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/18/2020 05:05
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/18/2020 05:05
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/18/2020 05:05
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/18/2020 05:05
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	11/18/2020 05:05
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/18/2020 05:05
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/18/2020 05:05
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/18/2020 05:05
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/18/2020 05:05
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/18/2020 05:05
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/18/2020 05:05
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/18/2020 05:05
2-Butanone	U		0.52	25	µg/L	1	11/18/2020 05:05
2-Hexanone	U		0.59	50	µg/L	1	11/18/2020 05:05
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	11/18/2020 05:05
Acetone	U		6.2	50	µg/L	1	11/18/2020 05:05
Benzene	U		0.46	1.0	µg/L	1	11/18/2020 05:05
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/18/2020 05:05
Bromoform	U		0.56	1.0	µg/L	1	11/18/2020 05:05
Bromomethane	U		0.90	5.0	µg/L	1	11/18/2020 05:05
Carbon disulfide	U		0.49	5.0	µg/L	1	11/18/2020 05:05
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/18/2020 05:05
Chlorobenzene	U		0.40	1.0	µg/L	1	11/18/2020 05:05
Chloroethane	U		0.68	5.0	µg/L	1	11/18/2020 05:05

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-R2330026-110420-KRM-010
Collection Date: 11/4/2020 02:10 PM

Work Order: 20111139
Lab ID: 20111139-10
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	11/18/2020 05:05
Chloromethane	U		0.83	5.0	µg/L	1	11/18/2020 05:05
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/18/2020 05:05
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/18/2020 05:05
Cyclohexane	U		0.63	1.0	µg/L	1	11/18/2020 05:05
Dibromochloromethane	U		0.40	5.0	µg/L	1	11/18/2020 05:05
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	11/18/2020 05:05
Ethylbenzene	U		0.34	1.0	µg/L	1	11/18/2020 05:05
Isopropylbenzene	U		0.35	5.0	µg/L	1	11/18/2020 05:05
Methyl acetate	U		0.59	10	µg/L	1	11/18/2020 05:05
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	11/18/2020 05:05
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/18/2020 05:05
Methylene chloride	U		0.86	5.0	µg/L	1	11/18/2020 05:05
Styrene	U		0.33	1.0	µg/L	1	11/18/2020 05:05
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/18/2020 05:05
Toluene	U		0.45	1.0	µg/L	1	11/18/2020 05:05
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/18/2020 05:05
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/18/2020 05:05
Trichloroethene	U		0.43	1.0	µg/L	1	11/18/2020 05:05
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/18/2020 05:05
Vinyl chloride	U		0.53	1.0	µg/L	1	11/18/2020 05:05
Xylenes, Total	U		0.81	3.0	µg/L	1	11/18/2020 05:05
Surr: 1,2-Dichloroethane-d4	*99.2*			*75-120*	*%REC*	1	11/18/2020 05:05
Surr: 4-Bromofluorobenzene	*91.4*			*80-110*	*%REC*	1	11/18/2020 05:05
Surr: Dibromofluoromethane	*104*			*85-115*	*%REC*	1	11/18/2020 05:05
Surr: Toluene-d8	*92.3*			*85-110*	*%REC*	1	11/18/2020 05:05

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-R2330026-110420-SSR-011
Collection Date: 11/4/2020 02:00 PM

Work Order: 20111139
Lab ID: 20111139-11
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.22**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:12
Iron	**0.70**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:12
Manganese	**0.99**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:12
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:14
Iron	U		0.050	0.080	mg/L	1	11/19/2020 00:14
Manganese	**0.58**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:14

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110420-SSR-012
Collection Date: 11/4/2020 02:05 PM

Work Order: 20111139
Lab ID: 20111139-12
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.023**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:19
Iron	**0.066**	J	**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:19
Manganese	**0.0094**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:19
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.0084**	J	**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:20
Iron	U		0.050	0.080	mg/L	1	11/19/2020 00:20
Manganese	**0.0046**	J	**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:20

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-013
Collection Date: 11/5/2020 08:20 AM

Work Order: 20111139
Lab ID: 20111139-13
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**1.4**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:22
Iron	**22**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:22
Manganese	**0.70**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:22
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.013**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:24
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:24
Manganese	**0.57**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:24

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-014
Collection Date: 11/5/2020 09:25 AM

Work Order: 20111139
Lab ID: 20111139-14
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.40**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:26
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:26
Manganese	**0.23**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:26
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:27
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:27
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:27

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-015
Collection Date: 11/5/2020 10:25 AM

Work Order: 20111139
Lab ID: 20111139-15
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.010**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:29
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:29
Manganese	**0.083**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:29
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:31
Iron	**14**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:31
Manganese	**0.086**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:31

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-016
Collection Date: 11/5/2020 11:35 AM

Work Order: 20111139
Lab ID: 20111139-16
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.63**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:33
Iron	**6.3**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:33
Manganese	**0.10**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:33
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:35
Iron	**4.1**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:35
Manganese	**0.096**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:35

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-017
Collection Date: 11/5/2020 01:10 PM

Work Order: 20111139
Lab ID: 20111139-17
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Iron	**18**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:40
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:40
BatchID: 167932							
Aluminum	**2.7**		**0.080**	**0.10**	**mg/L**	10	11/20/2020 15:08
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:41
Iron	**8.6**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:41
Manganese	**0.23**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:41

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-018
Collection Date: 11/5/2020 01:15 PM

Work Order: 20111139
Lab ID: 20111139-18
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Iron	**24**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:43
Manganese	**0.36**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:43
BatchID: 167932							
Aluminum	**6.1**		**0.080**	**0.10**	**mg/L**	10	11/20/2020 15:10
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	**0.048**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 00:45
Iron	**13**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 00:45
Manganese	**0.14**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 00:45

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-R2330026-110520-KRM-019
Collection Date: 11/5/2020 01:50 PM

Work Order: 20111139
Lab ID: 20111139-19
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:47
Iron	U		0.050	0.080	mg/L	1	11/19/2020 00:47
Manganese	U		0.0025	0.0050	mg/L	1	11/19/2020 00:47
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167932							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 00:49
Iron	U		0.050	0.080	mg/L	1	11/19/2020 00:49
Manganese	U		0.0025	0.0050	mg/L	1	11/19/2020 00:49

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110620-KRM-020
Collection Date: 11/6/2020 08:15 AM

Work Order: 20111139
Lab ID: 20111139-20
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.012**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:04
Iron	**2.0**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:04
Manganese	**0.20**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:04
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:05
Iron	**1.5**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:05
Manganese	**0.18**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:05

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-021
Collection Date: 11/6/2020 10:20 AM

Work Order: 20111139
Lab ID: 20111139-21
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.40**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:07
Iron	**5.7**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:07
Manganese	**0.11**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:07
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:09
Iron	**5.6**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:09
Manganese	**0.10**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:09

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-022
Collection Date: 11/6/2020 11:15 AM

Work Order: 20111139
Lab ID: 20111139-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.094**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:11
Iron	**20**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:11
Manganese	**0.52**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:11
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.011**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:12
Iron	**19**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:12
Manganese	**0.53**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:12
VOLATILE ORGANIC COMPOUNDS			**SW8260C**				Analyst: **SJB**
BatchID: R302934							
1,1,1-Trichloroethane	U		0.46	1.0	µg/L	1	11/18/2020 05:25
1,1,2,2-Tetrachloroethane	U		0.40	1.0	µg/L	1	11/18/2020 05:25
1,1,2-Trichloroethane	U		0.46	1.0	µg/L	1	11/18/2020 05:25
1,1,2-Trichlorotrifluoroethane	U		0.52	1.0	µg/L	1	11/18/2020 05:25
1,1-Dichloroethane	U		0.44	1.0	µg/L	1	11/18/2020 05:25
1,1-Dichloroethene	U		0.40	1.0	µg/L	1	11/18/2020 05:25
1,2,4-Trichlorobenzene	U		0.45	5.0	µg/L	1	11/18/2020 05:25
1,2-Dibromo-3-chloropropane	U		0.43	1.0	µg/L	1	11/18/2020 05:25
1,2-Dibromoethane	U		0.41	1.0	µg/L	1	11/18/2020 05:25
1,2-Dichlorobenzene	U		0.32	1.0	µg/L	1	11/18/2020 05:25
1,2-Dichloroethane	U		0.44	1.0	µg/L	1	11/18/2020 05:25
1,2-Dichloropropane	U		0.48	1.0	µg/L	1	11/18/2020 05:25
1,3-Dichlorobenzene	U		0.33	1.0	µg/L	1	11/18/2020 05:25
1,4-Dichlorobenzene	U		0.35	1.0	µg/L	1	11/18/2020 05:25
2-Butanone	U		0.52	25	µg/L	1	11/18/2020 05:25
2-Hexanone	U		0.59	50	µg/L	1	11/18/2020 05:25
4-Methyl-2-pentanone	U		0.52	50	µg/L	1	11/18/2020 05:25
Acetone	U		6.2	50	µg/L	1	11/18/2020 05:25
Benzene	**2.9**		**0.46**	**1.0**	**µg/L**	1	11/18/2020 05:25
Bromodichloromethane	U		0.49	1.0	µg/L	1	11/18/2020 05:25
Bromoform	U		0.56	1.0	µg/L	1	11/18/2020 05:25
Bromomethane	U		0.90	5.0	µg/L	1	11/18/2020 05:25
Carbon disulfide	U		0.49	5.0	µg/L	1	11/18/2020 05:25
Carbon tetrachloride	U		0.40	1.0	µg/L	1	11/18/2020 05:25
Chlorobenzene	**25**		**0.40**	**1.0**	**µg/L**	1	11/18/2020 05:25
Chloroethane	U		0.68	5.0	µg/L	1	11/18/2020 05:25

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-R2330026-110520-KRM-022
Collection Date: 11/6/2020 11:15 AM

Work Order: 20111139
Lab ID: 20111139-22
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
Chloroform	U		0.46	1.0	µg/L	1	11/18/2020 05:25
Chloromethane	U		0.83	5.0	µg/L	1	11/18/2020 05:25
cis-1,2-Dichloroethene	U		0.42	1.0	µg/L	1	11/18/2020 05:25
cis-1,3-Dichloropropene	U		0.57	1.0	µg/L	1	11/18/2020 05:25
Cyclohexane	U		0.63	1.0	µg/L	1	11/18/2020 05:25
Dibromochloromethane	U		0.40	5.0	µg/L	1	11/18/2020 05:25
Dichlorodifluoromethane	U		0.68	5.0	µg/L	1	11/18/2020 05:25
Ethylbenzene	U		0.34	1.0	µg/L	1	11/18/2020 05:25
Isopropylbenzene	U		0.35	5.0	µg/L	1	11/18/2020 05:25
Methyl acetate	U		0.59	10	µg/L	1	11/18/2020 05:25
Methyl tert-butyl ether	U		0.45	5.0	µg/L	1	11/18/2020 05:25
Methylcyclohexane	U		0.35	1.0	µg/L	1	11/18/2020 05:25
Methylene chloride	U		0.86	5.0	µg/L	1	11/18/2020 05:25
Styrene	U		0.33	1.0	µg/L	1	11/18/2020 05:25
Tetrachloroethene	U		0.39	1.0	µg/L	1	11/18/2020 05:25
Toluene	U		0.45	1.0	µg/L	1	11/18/2020 05:25
trans-1,2-Dichloroethene	U		0.48	1.0	µg/L	1	11/18/2020 05:25
trans-1,3-Dichloropropene	U		0.38	1.0	µg/L	1	11/18/2020 05:25
Trichloroethene	U		0.43	1.0	µg/L	1	11/18/2020 05:25
Trichlorofluoromethane	U		0.52	1.0	µg/L	1	11/18/2020 05:25
Vinyl chloride	U		0.53	1.0	µg/L	1	11/18/2020 05:25
Xylenes, Total	U		0.81	3.0	µg/L	1	11/18/2020 05:25
Surr: 1,2-Dichloroethane-d4	*99.9*			*75-120*	*%REC*	1	11/18/2020 05:25
Surr: 4-Bromofluorobenzene	*92.7*			*80-110*	*%REC*	1	11/18/2020 05:25
Surr: Dibromofluoromethane	*106*			*85-115*	*%REC*	1	11/18/2020 05:25
Surr: Toluene-d8	*93.4*			*85-110*	*%REC*	1	11/18/2020 05:25

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-023
Collection Date: 11/6/2020 12:15 PM

Work Order: 20111139
Lab ID: 20111139-23
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.029**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:14
Iron	**15**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:14
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:14
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:16
Iron	**15**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:16
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:16

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110520-KRM-024
Collection Date: 11/6/2020 01:05 PM

Work Order: 20111139
Lab ID: 20111139-24
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.14**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:21
Iron	**24**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:21
Manganese	**0.25**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:21
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:23
Iron	**23**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:23
Manganese	**0.24**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:23

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-R2330026-110520-KRM-025
Collection Date: 11/6/2020 01:30 PM

Work Order: 20111139
Lab ID: 20111139-25
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:25
Iron	U		0.050	0.080	mg/L	1	11/19/2020 01:25
Manganese	U		0.0025	0.0050	mg/L	1	11/19/2020 01:25
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:26
Iron	U		0.050	0.080	mg/L	1	11/19/2020 01:26
Manganese	U		0.0025	0.0050	mg/L	1	11/19/2020 01:26

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110920-KRM-026
Collection Date: 11/9/2020 08:05 AM

Work Order: 20111139
Lab ID: 20111139-26
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.012**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:28
Iron	**7.7**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:28
Manganese	**0.73**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:28
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:30
Iron	**7.6**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:30
Manganese	**0.76**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:30

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110920-KRM-027
Collection Date: 11/9/2020 09:30 AM

Work Order: 20111139
Lab ID: 20111139-27
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.095**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:32
Iron	**8.7**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:32
Manganese	**0.30**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:32
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:34
Iron	**8.0**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:34
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:34

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110920-KRM-028
Collection Date: 11/9/2020 10:25 AM

Work Order: 20111139
Lab ID: 20111139-28
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	**0.042**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 01:35
Iron	**3.1**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:35
Manganese	**0.32**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:35
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 01:37
Iron	**2.6**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 01:37
Manganese	**0.31**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 01:37

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-R2330026-110920-KRM-029
Collection Date: 11/9/2020 11:45 AM

Work Order: 20111139
Lab ID: 20111139-29
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167934							
Iron	**25**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:12
Manganese	**1.5**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:12
BatchID: 167934							
Aluminum	**7.0**		**0.080**	**0.10**	**mg/L**	10	11/20/2020 15:15
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.011**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:24
Iron	**3.9**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:24
Manganese	**0.27**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:24

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-110920-KRM-030
Collection Date: 11/9/2020 01:20 PM

Work Order: 20111139
Lab ID: 20111139-30
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.28**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:26
Iron	**3.6**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:26
Manganese	**0.44**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:26
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.016**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:28
Iron	**2.8**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:28
Manganese	**0.43**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:28

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-R2330026-110920-KRM-031
Collection Date: 11/9/2020 01:30 PM

Work Order: 20111139
Lab ID: 20111139-31
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 02:33
Iron	U		0.050	0.080	mg/L	1	11/19/2020 02:33
Manganese	U		0.0025	0.0050	mg/L	1	11/19/2020 02:33
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 02:35
Iron	U		0.050	0.080	mg/L	1	11/19/2020 02:35
Manganese	U		0.0025	0.0050	mg/L	1	11/19/2020 02:35

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-111020-SSR-032
Collection Date: 11/10/2020 10:35 AM

Work Order: 20111139
Lab ID: 20111139-32
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**1.2**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:36
Iron	**8.3**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:36
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:36
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.018**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:38
Iron	**4.8**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:38
Manganese	**0.20**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:38

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-111020-SSR-033
Collection Date: 11/10/2020 10:40 AM

Work Order: 20111139
Lab ID: 20111139-33
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**1.2**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:40
Iron	**8.3**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:40
Manganese	**0.29**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:40
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.019**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:42
Iron	**4.9**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:42
Manganese	**0.20**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:42

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-111020-SSR-034
Collection Date: 11/10/2020 11:15 AM

Work Order: 20111139
Lab ID: 20111139-34
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.64**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:44
Iron	**24**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:44
Manganese	**0.14**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:44
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 02:45
Iron	**2.6**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:45
Manganese	**0.070**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:45

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-111020-SSR-035
Collection Date: 11/10/2020 12:10 PM

Work Order: 20111139
Lab ID: 20111139-35
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.13**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:47
Iron	**0.69**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:47
Manganese	**0.054**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:47
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 02:49
Iron	**0.16**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:49
Manganese	**0.047**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:49

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-111020-SSR-036
Collection Date: 11/10/2020 12:55 PM

Work Order: 20111139
Lab ID: 20111139-36
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.10**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:54
Iron	**2.7**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:54
Manganese	**0.42**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:54
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 02:56
Iron	**2.5**		**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:56
Manganese	**0.42**		**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:56

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

ALS Group, USA

Date: *23-Nov-20*

Client: The Mannik & Smith Group, Inc.
Project: RACER - Van Buren Landfill
Sample ID: W-R2330026-111020-SSR-037
Collection Date: 11/10/2020 01:00 PM

Work Order: 20111139
Lab ID: 20111139-37
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	**0.022**		**0.0080**	**0.010**	**mg/L**	1	11/19/2020 02:58
Iron	**0.078**	J	**0.050**	**0.080**	**mg/L**	1	11/19/2020 02:58
Manganese	**0.0026**	J	**0.0025**	**0.0050**	**mg/L**	1	11/19/2020 02:58
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3005A / 11/18/20		Analyst: **STP**
BatchID: 167935							
Aluminum	U		0.0080	0.010	mg/L	1	11/19/2020 02:59
Iron	U		0.050	0.080	mg/L	1	11/19/2020 02:59
Manganese	U		0.0025	0.0050	mg/L	1	11/19/2020 02:59

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

QC BATCH REPORT

Batch ID: **167929** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-167929-167929** Units: **mg/L** Analysis Date: **11/18/2020 11:17 PM**

Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912934** Prep Date: **11/18/2020** 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-167929-167929** Units: **mg/L** Analysis Date: **11/18/2020 11:19 PM**

Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912935** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1029	0.010	0.1	0	103	80-120	0			
Iron	10.1	0.080	10	0	101	80-120	0			
Manganese	0.1006	0.0050	0.1	0	101	80-120	0			

MS Sample ID: **20110699-02AMS** Units: **mg/L** Analysis Date: **11/18/2020 11:22 PM**

Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912937** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.057	0.10	1	0.04199	101	80-120	0			
Iron	134.8	0.80	100	35.95	98.9	80-120	0			
Manganese	3.155	0.050	1	2.173	98.2	80-120	0			

MSD Sample ID: **20110699-02AMSD** Units: **mg/L** Analysis Date: **11/18/2020 11:24 PM**

Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912938** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	1.031	0.10	1	0.04199	98.9	80-120	1.057	2.42	20	
Iron	135	0.80	100	35.95	99	80-120	134.8	0.107	20	
Manganese	3.182	0.050	1	2.173	101	80-120	3.155	0.855	20	

The following samples were analyzed in this batch:

20111139-01A	20111139-01B	20111139-02A
20111139-02B	20111139-03A	20111139-03B
20111139-04A	20111139-04B	20111139-05A
20111139-05B	20111139-06A	20111139-06B
20111139-07A	20111139-07B	20111139-08A
20111139-08B	20111139-09A	20111139-09B
20111139-10A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **167932** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-167932-167932** Units: **mg/L** Analysis Date: **11/19/2020 12:07 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912963** Prep Date: **11/18/2020** 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-167932-167932** Units: **mg/L** Analysis Date: **11/19/2020 12:08 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912964** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1005	0.010	0.1	0	100	80-120	0			
Iron	9.781	0.080	10	0	97.8	80-120	0			
Manganese	0.0985	0.0050	0.1	0	98.5	80-120	0			

MS Sample ID: **20111334-02CMS** Units: **mg/L** Analysis Date: **11/19/2020 12:52 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912989** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1545	0.010	0.1	0.03293	122	75-125	0			
Iron	9.749	0.080	10	0.03934	97.1	75-125	0			
Manganese	0.0999	0.0050	0.1	0.001757	98.1	75-125	0			

MSD Sample ID: **20111334-02CMSD** Units: **mg/L** Analysis Date: **11/19/2020 12:54 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912990** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1449	0.010	0.1	0.03293	112	75-125	0.1545	6.4	20	
Iron	9.592	0.080	10	0.03934	95.5	75-125	9.749	1.62	20	
Manganese	0.09841	0.0050	0.1	0.001757	96.7	75-125	0.0999	1.5	20	

The following samples were analyzed in this batch:

20111139-10B	20111139-11A	20111139-11B
20111139-12A	20111139-12B	20111139-13A
20111139-13B	20111139-14A	20111139-14B
20111139-15A	20111139-15B	20111139-16A
20111139-16B	20111139-17A	20111139-17B
20111139-18A	20111139-18B	20111139-19A
20111139-19B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **167934** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-167934-167934** Units: **mg/L** Analysis Date: **11/19/2020 01:00 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912994** Prep Date: **11/18/2020** 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-167934-167934** Units: **mg/L** Analysis Date: **11/19/2020 01:02 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6912995** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.0967	0.010	0.1	0	96.7	80-120	0			
Iron	9.551	0.080	10	0	95.5	80-120	0			
Manganese	0.09577	0.0050	0.1	0	95.8	80-120	0			

MS Sample ID: **20111334-03CMS** Units: **mg/L** Analysis Date: **11/19/2020 02:16 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6913037** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.3492	0.010	0.1	0.1752	174	75-125	0			S
Iron	10.31	0.080	10	0.5985	97.1	75-125	0			
Manganese	0.1153	0.0050	0.1	0.01746	97.8	75-125	0			

MSD Sample ID: **20111334-03CMSD** Units: **mg/L** Analysis Date: **11/19/2020 02:18 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6913038** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.3563	0.010	0.1	0.1752	181	75-125	0.3492	2.02	20	S
Iron	10.4	0.080	10	0.5985	98	75-125	10.31	0.889	20	
Manganese	0.1154	0.0050	0.1	0.01746	97.9	75-125	0.1153	0.114	20	

The following samples were analyzed in this batch:

20111139-20A	20111139-20B	20111139-21A
20111139-21B	20111139-22A	20111139-22B
20111139-23A	20111139-23B	20111139-24A
20111139-24B	20111139-25A	20111139-25B
20111139-26A	20111139-26B	20111139-27A
20111139-27B	20111139-28A	20111139-28B
20111139-29A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **167935** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-167935-167935** Units: **mg/L** Analysis Date: **11/19/2020 02:21 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6913040** Prep Date: **11/18/2020** 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-167935-167935** Units: **mg/L** Analysis Date: **11/19/2020 02:23 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6913041** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09843	0.010	0.1	0	98.4	80-120	0			
Iron	9.885	0.080	10	0	98.8	80-120	0			
Manganese	0.09804	0.0050	0.1	0	98	80-120	0			

MS Sample ID: **20111334-04CMS** Units: **mg/L** Analysis Date: **11/19/2020 03:05 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6913065** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1142	0.010	0.1	0.01713	97	75-125	0			
Iron	19.09	0.080	10	9.297	98	75-125	0			
Manganese	0.4316	0.0050	0.1	0.3366	95	75-125	0			

MSD Sample ID: **20111334-04CMSD** Units: **mg/L** Analysis Date: **11/19/2020 03:06 AM**
Client ID: Run ID: **ICPMS3_201118A** SeqNo: **6913066** Prep Date: **11/18/2020** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1152	0.010	0.1	0.01713	98.1	75-125	0.1142	0.904	20	
Iron	18.86	0.080	10	9.297	95.6	75-125	19.09	1.22	20	
Manganese	0.4235	0.0050	0.1	0.3366	86.9	75-125	0.4316	1.89	20	

The following samples were analyzed in this batch:

20111139-29B	20111139-30A	20111139-30B
20111139-31A	20111139-31B	20111139-32A
20111139-32B	20111139-33A	20111139-33B
20111139-34A	20111139-34B	20111139-35A
20111139-35B	20111139-36A	20111139-36B
20111139-37A	20111139-37B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R302934A** Instrument ID **VMS10** Method: **SW8260C**

MBLK Sample ID: **VBLKW2-201117-R302934A** Units: **µg/L** Analysis Date: **11/17/2020 11:02 PM**
Client ID: Run ID: **VMS10_201117B** SeqNo: **6909062** 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.

Batch ID: **R302934A** Instrument ID **VMS10** 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	*19.45*	0	*20*	0	*97.2*	*75-120*	0
Surr: 4-Bromofluorobenzene	*18.89*	0	*20*	0	*94.4*	*80-110*	0
Surr: Dibromofluoromethane	*20.38*	0	*20*	0	*102*	*85-115*	0
Surr: Toluene-d8	*19.33*	0	*20*	0	*96.6*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R302934A** Instrument ID **VMS10** Method: **SW8260C**

LCS Sample ID: **VLCSW2-201117-R302934A** Units: **µg/L** Analysis Date: **11/17/2020 10:22 PM**
Client ID: Run ID: **VMS10_201117B** SeqNo: **6909061** 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	21.19	1.0	20	0	106	75-130	0			
1,1,2,2-Tetrachloroethane	20.18	1.0	20	0	101	75-130	0			
1,1,2-Trichloroethane	20.28	1.0	20	0	101	75-125	0			
1,1-Dichloroethane	21.79	1.0	20	0	109	68-142	0			
1,1-Dichloroethene	21.05	1.0	20	0	105	70-145	0			
1,2,4-Trichlorobenzene	20.32	1.0	20	0	102	70-135	0			
1,2-Dibromo-3-chloropropane	18.16	1.0	20	0	90.8	60-130	0			
1,2-Dibromoethane	21.61	1.0	20	0	108	67-155	0			
1,2-Dichlorobenzene	20.48	1.0	20	0	102	70-130	0			
1,2-Dichloroethane	19.6	1.0	20	0	98	78-125	0			
1,2-Dichloropropane	20.94	1.0	20	0	105	75-125	0			
1,3-Dichlorobenzene	20.64	1.0	20	0	103	75-130	0			
1,4-Dichlorobenzene	20.18	1.0	20	0	101	75-130	0			
2-Butanone	19.64	5.0	20	0	98.2	55-150	0			
2-Hexanone	16.32	5.0	20	0	81.6	60-135	0			
4-Methyl-2-pentanone	23.45	1.0	20	0	117	77-178	0			
Acetone	21.59	10	20	0	108	60-160	0			
Benzene	20.43	1.0	20	0	102	70-130	0			
Bromodichloromethane	20.92	1.0	20	0	105	75-125	0			
Bromoform	16.29	1.0	20	0	81.4	60-125	0			
Bromomethane	34.38	1.0	20	0	172	30-185	0			
Carbon disulfide	21.7	1.0	20	0	108	60-165	0			
Carbon tetrachloride	22.04	1.0	20	0	110	65-140	0			
Chlorobenzene	20.54	1.0	20	0	103	80-120	0			
Chloroethane	20.97	1.0	20	0	105	31-172	0			
Chloroform	21.8	1.0	20	0	109	66-135	0			
Chloromethane	22.14	1.0	20	0	111	46-148	0			
cis-1,2-Dichloroethene	21.55	1.0	20	0	108	75-134	0			
cis-1,3-Dichloropropene	19.31	1.0	20	0	96.6	70-130	0			
Dibromochloromethane	18.19	1.0	20	0	91	60-115	0			
Dichlorodifluoromethane	27.14	1.0	20	0	136	20-120	0			S
Ethylbenzene	20.55	1.0	20	0	103	76-123	0			
Isopropylbenzene	22.06	1.0	20	0	110	80-127	0			
Methyl tert-butyl ether	21.12	1.0	20	0	106	68-129	0			
Methylene chloride	20.79	5.0	20	0	104	72-125	0			
Styrene	22.71	1.0	20	0	114	79-117	0			
Tetrachloroethene	21.29	1.0	20	0	106	68-166	0			
Toluene	19.4	1.0	20	0	97	76-125	0			
trans-1,2-Dichloroethene	21.75	1.0	20	0	109	80-140	0			
trans-1,3-Dichloropropene	16.53	1.0	20	0	82.6	56-132	0			
Trichloroethene	21.62	1.0	20	0	108	77-125	0			
Trichlorofluoromethane	17.67	1.0	20	0	88.4	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R302934A** Instrument ID **VMS10** Method: **SW8260C**

Vinyl chloride	22.35	1.0	20	0	112	50-136	0
Xylenes, Total	61.6	3.0	60	0	103	76-127	0
Surr: 1,2-Dichloroethane-d4	*18.59*	0	*20*	0	*93*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.27*	0	*20*	0	*101*	*80-110*	0
Surr: Dibromofluoromethane	*19.97*	0	*20*	0	*99.8*	*85-115*	0
Surr: Toluene-d8	*19.12*	0	*20*	0	*95.6*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R302934A** Instrument ID **VMS10** Method: **SW8260C**

MS Sample ID: **20110638-18A MS** Units: **µg/L** Analysis Date: **11/18/2020 06:25 AM**
Client ID: Run ID: **VMS10_201117B** SeqNo: **6909084** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	105.6	5.0	100	0	106	75-130	0			
1,1,2,2-Tetrachloroethane	97.25	5.0	100	0	97.2	75-130	0			
1,1,2-Trichloroethane	100.8	5.0	100	0	101	75-125	0			
1,1-Dichloroethane	112.7	5.0	100	0	113	68-142	0			
1,1-Dichloroethene	103.8	5.0	100	0	104	70-145	0			
1,2,4-Trichlorobenzene	88.3	5.0	100	0	88.3	70-135	0			
1,2-Dibromo-3-chloropropane	88.6	5.0	100	0	88.6	60-130	0			
1,2-Dibromoethane	105.8	5.0	100	0	106	67-155	0			
1,2-Dichlorobenzene	97.5	5.0	100	0	97.5	70-130	0			
1,2-Dichloroethane	102.6	5.0	100	0	103	78-125	0			
1,2-Dichloropropane	107.6	5.0	100	0	108	75-125	0			
1,3-Dichlorobenzene	97.25	5.0	100	0	97.2	75-130	0			
1,4-Dichlorobenzene	93.75	5.0	100	0	93.8	75-130	0			
2-Butanone	93.9	25	100	0	93.9	55-150	0			
2-Hexanone	83.15	25	100	0	83.2	60-135	0			
4-Methyl-2-pentanone	114.4	5.0	100	0	114	77-178	0			
Acetone	98.2	50	100	2.7	95.5	60-160	0			
Benzene	104.3	5.0	100	0	104	70-130	0			
Bromodichloromethane	111.2	5.0	100	0	111	75-125	0			
Bromoform	80.45	5.0	100	0	80.4	60-125	0			
Bromomethane	556.6	5.0	100	0	557	30-185	0			SE
Carbon disulfide	113	5.0	100	0	113	60-165	0			
Carbon tetrachloride	103.9	5.0	100	0	104	65-140	0			
Chlorobenzene	98.3	5.0	100	0	98.3	80-120	0			
Chloroethane	109.2	5.0	100	0	109	31-172	0			
Chloroform	111.4	5.0	100	0	111	66-135	0			
Chloromethane	86	5.0	100	0	86	46-148	0			
cis-1,2-Dichloroethene	108	5.0	100	0	108	75-134	0			
cis-1,3-Dichloropropene	92.95	5.0	100	0	93	70-130	0			
Dibromochloromethane	90.1	5.0	100	0	90.1	60-115	0			
Dichlorodifluoromethane	123.6	5.0	100	0	124	20-120	0			S
Ethylbenzene	95.65	5.0	100	0	95.6	76-123	0			
Isopropylbenzene	100.2	5.0	100	0	100	80-127	0			
Methyl tert-butyl ether	107.6	5.0	100	0	108	68-129	0			
Methylene chloride	106.4	25	100	0	106	72-125	0			
Styrene	107.4	5.0	100	0	107	79-117	0			
Tetrachloroethene	183.8	5.0	100	96.85	87	68-166	0			
Toluene	92.75	5.0	100	0	92.8	76-125	0			
trans-1,2-Dichloroethene	108	5.0	100	0	108	80-140	0			
trans-1,3-Dichloropropene	76.25	5.0	100	0	76.2	56-132	0			
Trichloroethene	107.2	5.0	100	0	107	77-125	0			
Trichlorofluoromethane	85.6	5.0	100	0	85.6	60-140	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R302934A** Instrument ID **VMS10** Method: **SW8260C**

Vinyl chloride	109	5.0	100	0	109	50-136	0
Xylenes, Total	285.4	15	300	0	95.2	76-127	0
Surr: 1,2-Dichloroethane-d4	*96.75*	0	*100*	0	*96.8*	*75-120*	0
Surr: 4-Bromofluorobenzene	*99.9*	0	*100*	0	*99.9*	*80-110*	0
Surr: Dibromofluoromethane	*101*	0	*100*	0	*101*	*85-115*	0
Surr: Toluene-d8	*93.65*	0	*100*	0	*93.6*	*85-110*	0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R302934A** Instrument ID **VMS10** Method: **SW8260C**

MSD Sample ID: **20110638-18A MSD** Units: **µg/L** Analysis Date: **11/18/2020 06:45 AM**
Client ID: Run ID: **VMS10_201117B** SeqNo: **6909085** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	111.8	5.0	100	0	112	75-130	105.6	5.75	30	
1,1,2,2-Tetrachloroethane	99.25	5.0	100	0	99.2	75-130	97.25	2.04	30	
1,1,2-Trichloroethane	103.8	5.0	100	0	104	75-125	100.8	2.88	30	
1,1-Dichloroethane	111.9	5.0	100	0	112	68-142	112.7	0.712	30	
1,1-Dichloroethene	110.4	5.0	100	0	110	70-145	103.8	6.21	30	
1,2,4-Trichlorobenzene	95.85	5.0	100	0	95.8	70-135	88.3	8.2	30	
1,2-Dibromo-3-chloropropane	88.3	5.0	100	0	88.3	60-130	88.6	0.339	30	
1,2-Dibromoethane	106.1	5.0	100	0	106	67-155	105.8	0.283	30	
1,2-Dichlorobenzene	101.6	5.0	100	0	102	70-130	97.5	4.12	30	
1,2-Dichloroethane	104	5.0	100	0	104	78-125	102.6	1.26	30	
1,2-Dichloropropane	108.8	5.0	100	0	109	75-125	107.6	1.11	30	
1,3-Dichlorobenzene	102	5.0	100	0	102	75-130	97.25	4.82	30	
1,4-Dichlorobenzene	100.8	5.0	100	0	101	75-130	93.75	7.25	30	
2-Butanone	94.7	25	100	0	94.7	55-150	93.9	0.848	30	
2-Hexanone	81.3	25	100	0	81.3	60-135	83.15	2.25	30	
4-Methyl-2-pentanone	111.6	5.0	100	0	112	77-178	114.4	2.48	30	
Acetone	92.5	50	100	2.7	89.8	60-160	98.2	5.98	30	
Benzene	107	5.0	100	0	107	70-130	104.3	2.6	30	
Bromodichloromethane	112	5.0	100	0	112	75-125	111.2	0.717	30	
Bromoform	85.9	5.0	100	0	85.9	60-125	80.45	6.55	30	
Bromomethane	551.4	5.0	100	0	551	30-185	556.6	0.939	30	SE
Carbon disulfide	119.8	5.0	100	0	120	60-165	113	5.8	30	
Carbon tetrachloride	117.2	5.0	100	0	117	65-140	103.9	12	30	
Chlorobenzene	100.6	5.0	100	0	101	80-120	98.3	2.26	30	
Chloroethane	111.4	5.0	100	0	111	31-172	109.2	1.99	30	
Chloroform	112.1	5.0	100	0	112	66-135	111.4	0.582	30	
Chloromethane	85.5	5.0	100	0	85.5	46-148	86	0.583	30	
cis-1,2-Dichloroethene	105.7	5.0	100	0	106	75-134	108	2.2	30	
cis-1,3-Dichloropropene	94.3	5.0	100	0	94.3	70-130	92.95	1.44	30	
Dibromochloromethane	95.2	5.0	100	0	95.2	60-115	90.1	5.5	30	
Dichlorodifluoromethane	134.4	5.0	100	0	134	20-120	123.6	8.41	30	S
Ethylbenzene	101.2	5.0	100	0	101	76-123	95.65	5.59	30	
Isopropylbenzene	109.6	5.0	100	0	110	80-127	100.2	8.97	30	
Methyl tert-butyl ether	104.8	5.0	100	0	105	68-129	107.6	2.64	30	
Methylene chloride	103.3	25	100	0	103	72-125	106.4	3	30	
Styrene	112.6	5.0	100	0	113	79-117	107.4	4.77	30	
Tetrachloroethene	201.5	5.0	100	96.85	105	68-166	183.8	9.19	30	
Toluene	96.6	5.0	100	0	96.6	76-125	92.75	4.07	30	
trans-1,2-Dichloroethene	109	5.0	100	0	109	80-140	108	0.922	30	
trans-1,3-Dichloropropene	77.85	5.0	100	0	77.8	56-132	76.25	2.08	30	
Trichloroethene	114.2	5.0	100	0	114	77-125	107.2	6.41	30	
Trichlorofluoromethane	93.45	5.0	100	0	93.4	60-140	85.6	8.77	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: The Mannik & Smith Group, Inc.
Work Order: 20111139
Project: RACER - Van Buren Landfill

QC BATCH REPORT

Batch ID: **R302934A** Instrument ID **VMS10** Method: **SW8260C**

Vinyl chloride	116.8	5.0	100	0	117	50-136	109	6.91	30
Xylenes, Total	305.1	15	300	0	102	76-127	285.4	6.65	30
Surr: 1,2-Dichloroethane-d4	*99.1*	0	*100*	0	*99.1*	*75-120*	96.75	*2.4*	*30*
Surr: 4-Bromofluorobenzene	*101*	0	*100*	0	*101*	*80-110*	99.9	*1.1*	*30*
Surr: Dibromofluoromethane	*104.2*	0	*100*	0	*104*	*85-115*	101	*3.22*	*30*
Surr: Toluene-d8	*94*	0	*100*	0	*94*	*85-110*	93.65	*0.373*	*30*

The following samples were analyzed in this batch: 20111139-09C 20111139-10C 20111139-22C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

Page 1 of 4

COC ID: 190123

ALS Project Manager:

ALS Work Order #: 2011139

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Total Metals (Al, Fe, Mn (Method 6020A)
Work Order		Project Number		B	Dissolved Metals (Al, Fe, Mn (Method 6020A)
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc.	C	VOCs
Send Report To		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		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-R2330026-110220-KRM-001	11/2/20	1045	Ground water	2	2	X	X									
2	-002		1205														
3	-003		1315														
4	-004		1330														
5	W-R2330026-110420-KRM-005	11/4/20	1120														
6	W-R2330026-110420-SSR-006		1020														
7	-007		1115														
8	-008		1205														
9	-009		1240		1	5			X								
10	W-R2330026-110420-KRM-010		1410		1	5			X								

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		☐ Std 10 WK Days ☐ 5 WK Days ☐ Other ☐ 2 WK Days ☐ 24 Hour	

Relinquished by:	Date: 11/11/20	Time: 1547	Received by:	Notes:
Relinquished by:	Date: 11/11/20	Time: 1700	Received by (Laboratory): QS	
Logged by (Laboratory): MG	Date: 11/12/20	Time: 9:15	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
	5.8°C
	3.4
	3.2

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
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

Chain of Custody Form

COC ID: 190124

ALS Project Manager:

ALS Work Order #: 2011139

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Total Metals (Al, Fe, Mn (Method 6020 A)
Work Order		Project Number		B	Dissolved Metals (Al, Fe, Mn (Method 6020 A)
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc.	C	
Send Report To		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		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-R233026-110420-SSR-011	11/4/20	1400	Ground Water	2	2	X	X									
2	" -012	"	1405	"	"	"											
3	W-R233026-110520-KRM-013	11/5/20	0820	"	"	"											
4	-014	"	0925	"	"	"											
5	-015	"	1025	"	"	"											
6	-016	"	1135	"	"	"											
7	-017	"	1310	"	"	"											
8	-018	"	1315	"	"	"											
9	-019	"	1350	"	"	"											
10	W-R233026-110620-KRM-020	11/6/20	0815	"	"	"											

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other	

Relinquished by:	Date: 11/11/20	Time: 1547	Received by:	Notes:	
Relinquished by:	Date: 11/11/20	Time: 1700	Received by (Laboratory): QS		
Logged by (Laboratory): MJG	Date: 11/12/20	Time: 9:15	Checked by (Laboratory):		

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
	5.8°C	☐ Level II Std QC ☐ TRRP CheckList
	3.1	☐ Level III Std QC/Raw Data ☐ TRRP Level IV
	2.2	☐ 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 3 of 4

COC ID: 190125

ALS Project Manager: | ALS Work Order #: 2011139

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Total Metals (Al, Fe, Mn (Method 6020A)
Work Order		Project Number		B	Dissolved Metals (Al, Fe, Mn (Method 6020A)
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc.	C	VOCs
Send Report To		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		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-R233026-110620-KRM-021	11/6/20	1020	Ground Water	2	2	α	α									
2	-022		1115			5			α								
3	-023		1215			2			[redacted] KRM 11/16/20								
4	-024		1305														
5	-025		1330														
6	W-R233026-110920-KRM-026	11/9/20	0805														
7	-027		0930														
8	-028		1025														
9	-029		1145														
10	-030		1320														

Sampler(s) Please Print & Sign	Shipment Method	Required Turnaround Time: (Check Box)	Results Due Date:
		☐ Std 10 WK Days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other	

Relinquished by:	Date: 11/11/20	Time: 1347	Received by:	Notes:	
Relinquished by:	Date: 11/11/20	Time: 1700	Received by (Laboratory): QS		
Logged by (Laboratory): MTG	Date: 11/12/20	Time: 9:15	Checked by (Laboratory): GW		

Cooler ID	Cooler Temp.	QC Package: (Check One Box Below)
	5.8°C	☐ Level II Std QC ☐ TRRP CheckList
	IN	☐ Level III Std QC/Raw Data ☐ TRRP Level IV
	YHZ	☐ 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 4 of 4

COC ID: 190122

ALS Project Manager:

ALS Work Order #: 2011139

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name		A	Total Metals (Al, Fe, Mn (Method 6020 A)
Work Order		Project Number		B	Dissolved Metals (Al, Fe, Mn (Method 6020 A)
Company Name	The Mannik & Smith Group, Inc.	Bill To Company	The Mannik & Smith Group, Inc.	C	
Send Report To		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		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-P2330026-110920-KRM-031	11/9/20	1330	Groundwater	2	2	X	X									
2	W-P2330026-111020-SSR-032	11/10/20	1035														
3	-033		1040														
4	-034		1115														
5	-035		1210														
6	-036		1255														
7	-037		1300														
8																	
9																	
10																	

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:

	Date:	Time:		
Relinquished by:	11/11/20	1547	Received by:	
Relinquished by:	11/11/20	1700	Received by (Laboratory):	QS
Logged by (Laboratory): MTG	11/12/20	9:15	Checked by (Laboratory):	QV

Notes:

Cooler ID	Cooler Temp.
	5.8°C
	In1
	VH22

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.

Custody Seal

http://www.alsglobal.c

3352 128th Avenue
Holland, MI 49424
Ph: 616.399.6070

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424-9263
Ph: 616-399-6070
Attn: Sample Receiving

Company: ALS
Name:
Date: 11-11-20

208 S

ALS Group, USA

Sample Receipt Checklist

Client Name: **MANNIK&SMITH** Date/Time Received: **12-Nov-20 08:00**

Work Order: **20111139** Received by: **MJG**

Checklist completed by Matthew Gaylord (eSignature) 12-Nov-20 (Date) Reviewed by: Bill Carey (eSignature) 23-Nov-20 (Date)

Matrices: Groundwater

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):	5.8/5.8C	IR1	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/12/2020 9:17:08 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: