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

MEMO

To: **Brandon Pursel, USEPA**
From: Thomas Peters, PE and Josh Grant
CC: David Favero, RACER Trust
Date: July 5, 2022

Project #: R2330027
Re: RACER Van Buren Landfill Site –Spring 2022 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 (April 2022)
- Figure 3, Monitoring Well Analytical Summary Through (Spring 2022)
- Figure 4, Iron Concentration Contours (Spring 2022)
- 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 and Fall 2020 semi-annual ground water sampling events were sent in 2016, 2017, 2018, 2019, 2020 and 2021 respectively (results for all other semi-annual sampling events were discussed in the investigation reports).

The Spring 2022 Semi Annual Ground Water Sampling activities completed on the General Motors Property are summarized in a separate memo.

For the October 2021 and April 2022 sampling events, MW-1 and MW-24 were not sampled due to obstructions within the wells preventing the bladder pump from being properly placed for purging and sampling. It is recommended that for MW-1, a new ground water monitoring well be placed adjacent to the well to replace and properly abandon the original well. The new well would be incorporated into the Semi-Annual Ground Water Sampling regimen.

Based on the results from groundwater sampling over the past 5 years at MW-24 and other ground water monitoring wells up and down gradient, it is recommended to properly abandon MW-24. Previous ground water monitoring activities of MW-24

included sampling for volatile organic compounds (VOCs), Iron, Aluminum and Manganese. Ground water monitoring wells MW-29 and MW-30 to the west, MW-25 to the north, MW-26 to the east and MW 23 and MW-22 to the south still allow for ground water up and down gradient to be monitored.

SPRING 2022 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 Spring 2022 Semi-Annual Ground Water Sampling event that was completed between April 25, 2022 to April 28, 2022 by Spencer Rogers and Andrew Hildebrandt 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 depth was measured at every well to calculate the amount of sediment accumulation in each.

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 MW-23 were analyzed for VOCs in addition to the dissolved metals listed above.

Future ground water sampling events will be done in accordance with the *Corrective Measures Implementation Plan (CMIP)*, approved by USEPA Project Manager, Brandon Pursel, via email on May 26, 2022.

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 Spring 2022 ground water hydraulic monitoring data are illustrated on *Figure 2, Ground Water Elevation Contour Map (April 2022).*

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 Spring 2022 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-9, MW-10) contain concentrations of dissolved iron above EGLE Part 201 Non-residential Health-Based DW criteria. Samples collected from MW-11 and MW-12 (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. Samples collected from the interior of the Site (MW-4 and MW-5) continue to contain dissolved iron concentrations above 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, MW-21, MW-22, MW-23, MW-24, and MW-27) 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) appear 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 three (3) monitoring wells (excluding those monitoring wells on the GM Site and discussed in the report "General Motors Property – Spring 2022 Semi-Annual Ground Water Sampling Results") on and around the Site had an estimated sediment accumulation of over 1.0 feet. These three (3) wells (MW-3, MW-12, and MW-19) will be redeveloped prior to future sampling events. Twenty-seven (27) wells have an estimated sediment accumulation of less than 1.0 feet. 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
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-1[A]	W-R2330027-041521-KRM-029	4/15/2021																			
MW-1	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021																			
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	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

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-1[A]	W-R2330027-041521-KRM-029	4/15/2021																			
MW-1	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021																			
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.1 J**	**0.43 J**	**15**	**1,500**	<1.0	<1.0	**1.1 J**	**2.8 J**	**1.3 J**	<0.005	**17,000**	<3.0	<50
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013							**67**	**0.21 J**	**23**	**1,700**	<1.0	**0.17 J**	**1.5 J**	**3.4 J**	**3.3 J**		**25,000**	**0.25 J**	<50
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.3 J**	**0.27 J**	**23**	**1,900**	<1.0	**0.10 J**	**1.3 J**	**3.7 J**	**1.2 J**	<0.005	**25,000**	**0.076 J**	<50
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013							**33 J**	**0.19 J**	**28**	**2,200**	<1.0	<1.0	**2.0 J**	**3.1 J**	**0.62 J**		**21,000**	**0.17 J**	<50
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.8 J**	**0.21 J**	**27**	**2,200**	<1.0	**0.12 J**	**2.5 J**	**3.7 J**	<4.0	**0.0044 J**	**21,000**	<3.0	<50
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014							**14 J**	**0.18 J**	**16 J**	**1,300**	**0.15 J**	<1.0	**0.78 J**	**2.6 J**	**2.4 J**		**17,000**	**0.13 J**	<50
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	<100	**0.19 J**	**16**	**1,600**	**0.19 J**	**0.18 J**	**2.7 J**	**3.0 J**	**2.0 J**	**6.7 J**	**18,000**	<3.0	<50
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014							**120**	**0.23 J**	**26**	**1,700**	<1.0	**0.062 J**	**1.6 J**	**1.9 J**	**0.55 J**		**18,000**	<3.0	<50
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.0 J**	**0.24 J**	**25**	**1,700**	<1.0	<1.0	**1.2 J**	**2.0 J**	<4.0	**3.9 J**	**17,000**	<3.0	<50
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014							**74**	**0.19 J**	**25**	**1,800**	<1.0	<1.0	**1.4 J**	**2.0 J**	**0.17 J**		**18,000**	<3.0	<50
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.18 J**	**25**	**1,700**	<1.0	<1.0	**1.4 J**	**1.8 J**	<4.0	**4.6 J**	**17,000**	<3.0	<50
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015							**30 J**	**0.26 J**	**27**	**1,900**	<1.0	<1.0	**1.3 J**	**2.3 J**	**1.1 J**		**21,000**	<3.0	<50
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**18 J**	**0.31 J**	**27**	**2,000**	<1.0	<1.0	**1.3 J**	**2.2 J**	**0.50 J**	<5.0	**21,000**	<3.0	<50
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015							**210**	NS	NS	NS	NS	NS	NS	NS	NS		**23,000**	NS	**160,000**
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23,000**	NS	**160,000**
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016							**140**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016							**420**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017							**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	**150,000**
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	**9.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	**160,000**
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017							**280**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018							**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	**3.5 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019							**66**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	**3.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-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-1[A]	W-R2330027-041521-KRM-029	4/15/2021							**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS
MW-1	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021							**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13,000**	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

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-1[A]	W-R2330027-041521-KRM-029	4/15/2021	**340**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330027-041521-KRM-029	4/15/2021	**290**	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021	**320**	NS	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	**290**	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**

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-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-3[A]	W-R2330027-041321-KRM-014	4/13/2021																			
MW-3	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022																			
MW-3	W-R2330027-042522-KADH-004	4/25/2022	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

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-R2330012-091514-ACN-001	9/15/2014																			
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																			
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																			
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015																			
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016																			
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-3[A]	W-R2330027-041321-KRM-014	4/13/2021																			
MW-3	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022																			
MW-3	W-R2330027-042522-KADH-004	4/25/2022	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

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-R2330012-091514-ACN-001	9/15/2014							**610**	**0.27 J**	**4.1 J**	**310**	**0.23 J**	<1.0	**0.97 J**	**1.5 J**	**3.0 J**		**4,900**	**0.63 J**	<50
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	**6.4 J**	**0.30 J**	**3.4 J**	**370**	<1.0	<1.0	**0.35 J**	**1.9 J**	**2.4 J**	NS	**4,700**	<3.0	<50
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014							**820**	**0.24 J**	**2.7 J**	**340**	<1.0	<1.0	**1.5 J**	**1.5 J**	**3.5 J**		**5,200**	**0.98 J**	<50
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.21 J**	**2.2 J**	**350**	<1.0	<1.0	**0.32 J**	**1.3 J**	**2.2 J**	<5.0	**4,400**	<3.0	<50
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015							**260**	**0.28 J**	**2.8 J**	**290**	<1.0	**0.11 J**	**0.75 J**	**0.74 J**	**2.4 J**		**4,600**	<3.0	<50
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.41 J**	**1.7 J**	**370**	<1.0	**0.11 J**	**0.48 J**	**1.3 J**	**2.1 J**	<5.0	**5,000**	<3.0	<50
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015							**240**	NS	NS	NS	NS	NS	NS	NS	NS		**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-3[A]	W-R2330027-041321-KRM-014	4/13/2021							**73**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
MW-3	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022							**65**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
MW-3	W-R2330027-042522-KADH-004	4/25/2022	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	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

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-R2330012-091514-ACN-001	9/15/2014	**130**	**0.057 J**	**8.9 J**	**0.76 J**	<0.20	**0.22 J**	**1.6 J**	**8.0 J**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	**110**	**0.058 J**	**8.0 J**	**1.4 J**	<0.20	<2.0	**0.56 J**	**3.8 J**
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014	**74**	<0.2	**7.8 J**	**1.5 J**	<0.20	<2.0	**2.1 J**	**9.1 J**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	**66**	<0.2	**7.0 J**	**1.6 J**	<0.20	<2.0	**0.56 J**	**4.2 J**
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015	**37 J**	<0.2	**4.7 J**	**1.3 J**	**0.055 J**	<2.0	**0.65 J**	**4.5 J**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	**39 J**	<0.2	**5.9 J**	**2.2 J**	**0.081 J**	<2.0	<4.0	<50
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016	**13 J**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	**14 J**	NS	NS	NS	NS	NS	NS	NS
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-3[A]	W-R2330027-041321-KRM-014	4/13/2021	**100**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330027-041321-KRM-014	4/13/2021	**98**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022	**120**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330027-042522-KADH-004	4/25/2022	**130**	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

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-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-4[A]	W-R2330027-041321-KRM-010	4/13/2021																			
MW-4	W-R2330027-041321-KRM-010	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-042622-ADP-008	4/26/2022																			
MW-4	W-R2330027-042622-ADP-008	4/26/2022	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																			

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-R2330017-112015-JPM-033	11/20/2015																			
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016																			
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016																			
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017																			
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017																			
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018																			
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018																			
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019																			
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019																			
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019																			
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-4[A]	W-R2330027-041321-KRM-010	4/13/2021																			
MW-4	W-R2330027-041321-KRM-010	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-042622-ADP-008	4/26/2022																			
MW-4	W-R2330027-042622-ADP-008	4/26/2022	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																			

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-R2330017-112015-JPM-033	11/20/2015							**84**	NS	NS	NS	NS	NS	NS	NS	NS		**12,000**	NS	**140,000**
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	**130,000**
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016							**81**	NS	NS	NS	NS	NS	NS	NS	NS		**15,000**	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016							**210**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017							**21 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	**150,000**
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	**140,000**
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	**6.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018							**33**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,100**	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,800**	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018							**36**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019							**82**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019							**85**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019							**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
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-4[A]	W-R2330027-041321-KRM-010	4/13/2021							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16,000**	NS	NS
MW-4	W-R2330027-041321-KRM-010	4/13/2021	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-R2330027-042622-ADP-008	4/26/2022							**80**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,600**	NS	NS
MW-4	W-R2330027-042622-ADP-008	4/26/2022	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	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**

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-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016	**490**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	**560**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016	**72**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-110416-JPM-036	11/4/2016	**60**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017	**760**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-042817-AFB-034	4/28/2017	**730**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017	**62**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	**60**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018	**680**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	**690**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018	**71**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	**69**	NS	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019	**790**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019	**740**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	**730**	NS	NS	NS	NS	NS	NS	NS
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-4[A]	W-R2330027-041321-KRM-010	4/13/2021	**110**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330027-041321-KRM-010	4/13/2021	**89**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-042622-ADP-008	4/26/2022	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330027-042622-ADP-008	4/26/2022	**800**	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-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																			
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-5[A]	W-R2330027-041621-KRM-034	4/16/2021																			
MW-5	W-R2330027-041621-KRM-034	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022																			
MW-5	W-R2330027-042622-ADH-011	4/26/2022	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-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-5	W-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																			
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-5[A]	W-R2330027-041621-KRM-034	4/16/2021																			
MW-5	W-R2330027-041621-KRM-034	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022																			
MW-5	W-R2330027-042622-ADH-011	4/26/2022	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_{VI-ny}) (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-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
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-5[A]	W-R2330027-041621-KRM-034	4/16/2021							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,000**	NS	NS
MW-5	W-R2330027-041621-KRM-034	4/16/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022							**630.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,300**	NS	NS
MW-5	W-R2330027-042622-ADH-011	4/26/2022	NS	NS	NS	NS	NS	NS	**76.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,700**	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**17 J**	**0.16 J**	**9.4**	**580**	<1.0	<1.0	**1.0 J**	**2.4 J**	**0.31 J**	<0.005	**26,000**	**0.057 J**	<50
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.5 J**	**0.15 J**	**3.7 J**	**480**	<1.0	<1.0	**1.6 J**	**1.5 J**	<4.0	<0.005	**18,000**	**0.31 J**	<50
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013							**47 J**	**0.11 J**	**6.0**	**540**	<1.0	**0.19 J**	**0.94 J**	**1.9 J**	**4.40**		**22,000**	**0.29 J**	<50
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.8 J**	**0.15 J**	**5.5**	**550**	<1.0	**0.25 J**	**0.75 J**	**2.4 J**	**3.5 J**	<0.005	**21,000**	**0.063 J**	<50
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013							**200 J**	**0.16 J**	**5.4 J**	**520**	<1.0	**0.25 J**	**1.8 J**	**1.7 J**	**1.4 J**		**18,000**	**0.55 J**	<50
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**160**	**0.14 J**	**5.5 J**	**520**	<1.0	**0.43 J**	**2.2 J**	**1.7 J**	**1.3 J**	<0.005	**18,000**	**0.41 J**	<50
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014							**76**	**0.15 J**	**3.0 J**	**460**	<1.0	<1.0	**0.56 J**	**2.0 J**	**2.0 J**		**11,000**	**0.31 J**	<50
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.6 J**	**0.17 J**	**3.4 J**	**460**	<1.0	<1.0	**0.37 J**	**1.4 J**	**1.9 J**	**1.3 J**	**10,000**	<3.0	<50
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014							**320**	**0.17 J**	**4.5 J**	**570**	<1.0	**0.068 J**	**1.7 J**	**1.1 J**	**0.85 J**		**18,000**	<3.0	<50
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.6 J**	**0.17 J**	**4.8 J**	**540**	<1.0	<1.0	**0.53 J**	**1.0 J**	<4.0	<5.0	**17,000**	<3.0	<50
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015							**300**	**0.35 J**	**3.1 J**	**430**	<1.0	**0.098 J**	**1.5 J**	**1.7 J**	**4.1**		**12,000**	**1.1 J**	<50
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.3 J**	**0.41 J**	**1.9 J**	**360**	<1.0	<1.0	**0.42 J**	**1.5 J**	**2.0 J**	<5.0	**11,000**	<3.0	<50
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015							**30 J**	NS	NS	NS	NS	NS	NS	NS	NS		**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-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
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-5[A]	W-R2330027-041621-KRM-034	4/16/2021	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330027-041621-KRM-034	4/16/2021	**96**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330027-042622-ADH-011	4/26/2022	**79**	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-6[A]	W-R2330027-041321-KRM-006	4/13/2021																			
MW-6	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022																			
MW-6	W-R2330027-042622-SSR-007	4/26/2022	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

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-6[A]	W-R2330027-041321-KRM-006	4/13/2021																			
MW-6	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022																			
MW-6	W-R2330027-042622-SSR-007	4/26/2022	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

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-6[A]	W-R2330027-041321-KRM-006	4/13/2021							**310**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,300**	NS	NS
MW-6	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022							**74**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,200**	NS	NS
MW-6	W-R2330027-042622-SSR-007	4/26/2022	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**76**	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

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-6[A]	W-R2330027-041321-KRM-006	4/13/2021	**190**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330027-041321-KRM-006	4/13/2021	**25**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022	**190**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330027-042622-SSR-007	4/26/2022	**140**	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

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																			
MW-7[A]	W-R2330027-041321-KRM-018	4/14/2021																			
MW-7	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022																			
MW-7	W-R2330027-042622-ADH-013	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
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
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021																			
MW-8	W-R2330027-041421-SSR-025	4/14/2021	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-gr}) (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-7[A]	W-R2330027-041321-KRM-018	4/14/2021																			
MW-7	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022																			
MW-7	W-R2330027-042622-ADH-013	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**1.4 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																			
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																			
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																			
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																			
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015																			
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016																			
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
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021																			
MW-8	W-R2330027-041421-SSR-025	4/14/2021	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-GY}) (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-7[A]	W-R2330027-041321-KRM-018	4/14/2021							**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,900**	NS	NS
MW-7	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,800**	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022							**27.00**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-7	W-R2330027-042622-ADH-013	4/26/2022	NS	NS	NS	NS	NS	NS	**8.10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**11 J**	**0.21 J**	**1.2 J**	**380**	<1.0	<1.0	**0.56 J**	**1.5 J**	<4.0	<0.005	**6,200**	<3.0	<50
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013							**51**	**0.16 J**	**4.1 J**	**470**	<1.0	**0.12 J**	**1.2 J**	**1.5 J**	**3.8 J**		**8,200**	**0.80 J**	<50
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**6.3 J**	**0.20 J**	**3.9 J**	**460**	<1.0	**0.098 J**	**0.94 J**	**2.3 J**	**1.6 J**	<0.005	**8,100**	**0.074 J**	<50
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013							**98 J**	**0.12 J**	**3.7 J**	**420**	<1.0	**0.50 J**	**1.3 J**	**1.6 J**	**1.6 J**		**7,700**	**0.34 J**	<50
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.13 J**	**3.6 J**	**440**	<1.0	**0.49 J**	**2.0 J**	**1.8 J**	**1.5 J**	**0.0015 J**	**7,500**	<3.0	<50
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014							**1,200**	**0.11 J**	**4.7 J**	**370**	<1.0	**2.1**	**2.7 J**	**2.4 J**	**4.7**		**8,000**	**4.7**	<50
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	<2.0	**3.3 J**	**350**	<1.0	<1.0	**0.34 J**	**1.3 J**	**0.50 J**	<5.0	**4,900**	<3.0	<50
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015							**440**	<2.0	**2.0 J**	**330**	<1.0	**0.73 J**	**3.2 J**	**1.2 J**	**2.7 J**		**7,100**	**1.9 J**	<50
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**13 J**	**0.18 J**	**1.3 J**	**330**	<1.0	<1.0	**0.47 J**	**1.3 J**	**1.5 J**	<5.0	**5,900**	<3.0	<50
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015							**540**	NS	NS	NS	NS	NS	NS	NS	NS	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
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021							**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS
MW-8	W-R2330027-041421-SSR-025	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,600**	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-GC}) (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-7[A]	W-R2330027-041321-KRM-018	4/14/2021	**660**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330027-041321-KRM-018	4/14/2021	**690**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022	**880**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330027-042622-ADH-013	4/26/2022	**880**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	**180**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.0 J**
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013	**200**	<0.2	**6.8 J**	<5.0	<0.20	<2.0	**1.3 J**	**4.0 J**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	**200**	<0.2	**6.6 J**	<5.0	<0.20	<2.0	**0.91 J**	**3.0 J**
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013	**200**	<0.2	**7.6 J**	<5.0	<0.20	<2.0	**1.5 J**	**3.2 J**
MW-8	W-R2330009-111213-ACN-005	11/12/2013	**210**	<0.2	**7.9 J**	<5.0	<0.20	<2.0	**0.89 J**	**2.4 J**
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	**400**	<0.2	**19 J**	<5.0	<0.20	<2.0	**5.2**	**18 J**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	**330**	<0.2	**10 J**	<5.0	<0.20	<2.0	**0.85 J**	**5.8 J**
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015	**210**	<0.2	**6.7 J**	<5.0	<0.20	<2.0	**2.0 J**	**11 J**
MW-8	W-R2330017-032015-JCH-029	3/20/2015	**200**	<0.2	**5.6 J**	<5.0	<0.20	<2.0	**0.74 J**	<50
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016	**200**	NS	NS	NS	NS	NS	NS	NS
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
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021	**250**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330027-041421-SSR-025	4/14/2021	**240**	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-9[A]	W-R2330027-041621-SSR-035	4/16/2021																			
MW-9	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022																			
MW-9	W-R2330027-042622-SSR-012	4/26/2022	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																			

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-9[A]	W-R2330027-041621-SSR-035	4/16/2021																			
MW-9	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022																			
MW-9	W-R2330027-042622-SSR-012	4/26/2022	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																			

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	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-9[A]	W-R2330027-041621-SSR-035	4/16/2021							**180**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**32,000**	NS	NS
MW-9	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28,000**	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022							**910.00**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**65,000**	NS	NS
MW-9	W-R2330027-042622-SSR-012	4/26/2022	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	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

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-9[A]	W-R2330027-041621-SSR-035	4/16/2021	**360**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330027-041621-SSR-035	4/16/2021	**330**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022	**590**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330027-042622-SSR-012	4/26/2022	**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**

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 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<25	<1.0	<1.0	<50	<50	**8.2**	<1.0	<5.0	**25**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<25	<1.0	<1.0	<50	<50	**7.8**	<1.0	<5.0	**38**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**28**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<25	<1.0	<1.0	<50	<50	**10**	<1.0	<5.0	**27**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<25	<1.0	**0.48 J**	<50	<50	**12**	<1.0	<5.0	**44**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	**0.29 J**	<1.0	<1.0
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016																			
MW-10	W-R2330021-042116-JPM-023	4/21/2016	<25	<1.0	<1.0	<50	**5.5 J**	**7.4**	<1.0	<5.0	**24**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016																			
MW-10	W-R2330021-110216-JPM-019	11/2/2016	<25	<1.0	**.41 J**	<50	**1.8 J**	**11.0**	<1.0	<5.0	**41**	<5.0	<0.17	<1.0	**.49 J**	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017																			
MW-10	W-R2330022-042617-DMS-017	4/26/2017	<25	<1.0	<1.0	<50	**7.4 J**	**7.2**	<1.0	<5.0	**32**	<5.0	<0.17	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017																			
MW-10	W-R2330022-102717-DMS-031	10/27/2017	<25	<1.0	<1.0	<50	**3.5 J**	**9.8**	<1.0	<5.0	**34**	<5.0	<0.68	<1.0	<10	<5.0	<5.0	<1.0	**0.22 J**	<1.0	<1.0
MW-10[A]	W-R2330024-042418-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-10[A]	W-R2330027-041521-SSR-027	4/15/2021																			
MW-10	W-R2330027-041521-SSR-027	4/15/2021	<0.52	<0.32	<0.35	<0.52	**7**	**2.0**	<0.49	<0.49	**19**	<0.68	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022																			
MW-10	W-R2330027-042622-ADP-010	4/26/2022	NS	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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																			
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																			
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																			
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330012-091514-ACN-003	9/15/2014																			
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																			
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																			
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015																			
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016																			

Table 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 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																			
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.1 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																			
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																			
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.8 J**	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																			
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-10[A]	W-R2330027-041521-SSR-027	4/15/2021																			
MW-10	W-R2330027-041521-SSR-027	4/15/2021	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022																			
MW-10	W-R2330027-042622-ADP-010	4/26/2022	NS	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																			

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 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**4.7 J**	**0.21 J**	**6.8 J**	**1,700**	<1.0	<1.0	<10	**3.0 J**	**1.1 J**	**4.1 J**	**23,000**	**0.14 J**	<50
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014							**21 J**	**0.23 J**	**7.1**	**2,100**	<1.0	**0.034 J**	**2.3 J**	**2.2 J**	<4.0		**22,000**	**2.2 J**	<50
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.2 J**	**0.22 J**	**8.4**	**2,100**	<1.0	<1.0	**2.3 J**	**2.4 J**	<4.0	<5.0	**23,000**	<3.0	<50
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015							**24 J**	**0.29 J**	**7.3**	**2,500**	<1.0	**0.028 J**	**2.5 J**	**2.3 J**	**0.51 J**		**23,000**	**2.5 J**	<50
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**7.8 J**	**0.26 J**	**7.0**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.40 J**	<5.0	**22,000**	<3.0	<50
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015							**26 J**	**0.21 J**	**6.6**	**2,300**	<1.0	<1.0	**2.2 J**	**2.3 J**	**0.65 J**		**21,000**	**2.1 J**	<50
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**10 J**	**0.24 J**	**7.2**	**2,400**	<1.0	<1.0	**2.6 J**	**2.7 J**	**0.27 J**	<5.0	**23,000**	**0.36 J**	<50
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015							**31 J**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	**160,000**
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	**160,000**
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**22,000**	NS	NS
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**27,000**	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016							**32 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	**160,000**
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	**150,000**
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017							**37**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330024-042418-DMS-016	4/24/2018							**75**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-10	W-R2330024-042418-DMS-016	4/24/2018	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018							**29**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20,000**	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019							**18**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15,000**	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	**8.3**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020							**27**	NS	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	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-10[A]	W-R2330027-041521-SSR-027	4/15/2021							**170**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22,000**	NS	NS
MW-10	W-R2330027-041521-SSR-027	4/15/2021	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022							**1200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31,000**	NS	NS
MW-10	W-R2330027-042622-ADP-010	4/26/2022	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18,000**	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

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 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	**530**	<0.2	**8.0 J**	**0.83 J**	<0.20	<2.0	**1.9 J**	<50
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014	**420**	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	**3.7 J**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	**430**	<0.2	**2.8 J**	<5.0	<0.20	<2.0	**3.2 J**	<50
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015	**450**	<0.2	**3.9 J**	<5.0	<0.20	<2.0	**2.8 J**	**3.4 J**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	**420**	<0.2	**3.7 J**	<5.0	<0.20	<2.0	**2.3 J**	<50
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015	**420**	<0.2	**3.8 J**	<5.0	<0.20	<2.0	**2.1 J**	**3.8 J**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	**430**	<0.2	**3.7 J**	<5.0	**0.021 J**	<2.0	**2.7 J**	**3.3 J**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
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-10[A]	W-R2330027-041521-SSR-027	4/15/2021	**600**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330027-041521-SSR-027	4/15/2021	**560**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022	**620**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330027-042622-ADP-010	4/26/2022	**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

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-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016																			
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-11[A]	W-R2330027-041521-KRM-032	4/15/2021																			
MW-11	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022																			
MW-11	W-R2330027-042622-ADP-017	4/26/2022	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																			

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-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016																			
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017																			
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017																			
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018																			
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018																			
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019																			
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019																			
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-11[A]	W-R2330027-041521-KRM-032	4/15/2021																			
MW-11	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022																			
MW-11	W-R2330027-042622-ADP-017	4/26/2022	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																			

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-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**230**	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016							**350**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,700**	NS	NS
MW-11	W-R2330021-110116-JPM-010	11/1/2016	NS	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017							**93**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**350**	NS	**29,000**
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	**25,000**
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017							**69**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**240**	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018							**20**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018							**1,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2000**	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019							**660**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,300**	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	**<2.6**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<15**	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019							**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1200**	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**890**	NS	NS
MW-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-11[A]	W-R2330027-041521-KRM-032	4/15/2021							**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1400**	NS	NS
MW-11	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1300**	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022							**42**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4000**	NS	NS
MW-11	W-R2330027-042622-ADP-017	4/26/2022	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**75**	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

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-R2330021-042116-JPM-021	4/21/2016	**19 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-110116-JPM-010	11/1/2016	**190**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-110116-JPM-010	11/1/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017	**95**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	**17 J**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017	**180**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018	**85**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	**12**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018	**350**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	**83**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	**420**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	**8.4**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-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-11[A]	W-R2330027-041521-KRM-032	4/15/2021	**99**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330027-041521-KRM-032	4/15/2021	**91**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022	**340**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330027-042622-ADP-017	4/26/2022	**48**	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-R2330009-1113313-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-R2330009-1113313-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

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-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																			
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-12[A]	W-R2330027-041321-KRM-008	4/13/2021																			
MW-12	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022																			
MW-12	W-R2330027-042622-SSR-009	4/26/2022	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

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-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																			
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-12[A]	W-R2330027-041321-KRM-008	4/13/2021																			
MW-12	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022																			
MW-12	W-R2330027-042622-SSR-009	4/26/2022	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

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-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
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-12[A]	W-R2330027-041321-KRM-008	4/13/2021							**83**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10,000**	NS	NS
MW-12	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,600**	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022							**220**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-12	W-R2330027-042622-SSR-009	4/26/2022	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	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**

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-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
MW-12	W-R2330026-110520-KRM-014	11/5/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-041321-KRM-008	4/13/2021	**160**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330027-041321-KRM-008	4/13/2021	**170**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022	**790**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330027-042622-SSR-009	4/26/2022	**530**	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-17[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-17[A]	W-R2330027-041421-SSR-023	4/14/2021																			
MW-17	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022																			
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.42 J**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-18[A]	W-R2330027-041321-SSR-009	4/13/2021																			
MW-18	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-17[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-17[A]	W-R2330027-041421-SSR-023	4/14/2021																			
MW-17	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022																			
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014																			
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																			
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																			
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015																			
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016																			
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016																			
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017																			
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017																			
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018																			
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018																			
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019																			
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019																			
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-18[A]	W-R2330027-041321-SSR-009	4/13/2021																			
MW-18	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-17[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-17[A]	W-R2330027-041421-SSR-023	4/14/2021							**85**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,500**	NS	NS
MW-17	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022							**1,900.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,600**	NS	NS
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	NS	NS	NS	NS	NS	NS	<10.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,800**	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014							**5,400**	**0.35 J**	**10**	**400**	**0.23 J**	**0.28 J**	**8.8 J**	**5.6 J**	**11**		**13,000**	**6.9**	<50
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**56**	**0.24 J**	**5.1**	**370**	**0.097 J**	**0.16 J**	**0.30 J**	**1.3 J**	<4.0	<0.005	**2,000**	**0.20 J**	<50
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014							**25,000**	**1.0 J**	**46**	**730**	**1.2**	**1.4**	**48**	**34**	**74**		**72,000**	**52**	<50
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**45 J**	**0.18 J**	**11**	**550**	<1.0	**0.088 J**	<10	**0.59 J**	**0.21 J**	<5.0	**3,600**	<3.0	<50
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015							**28,000**	**1.3 J**	**51**	**740**	**0.77 J**	**1.4**	**35**	**25**	**60**		**60,000**	**45**	<50
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.16 J**	**6.7**	**450**	<1.0	**0.041 J**	**0.15 J**	**0.97 J**	**1.5 J**	<5.0	**2,800**	<3.0	<50
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015							**2,200**	NS	NS	NS	NS	NS	NS	NS	NS		**7,200**	NS	**30,000**
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	**22 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,900**	NS	**25,000**
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016							**2,100**	NS	NS	NS	NS	NS	NS	NS	NS		**4,400**	NS	NS
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016							**96**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017							**2,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,900**	NS	**44,000**
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,300**	NS	**18,000**
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017							**5,100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17,000**	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018							**7,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26,000**	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	**64**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018							**580**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019							**1,300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019							**540**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-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-18[A]	W-R2330027-041321-SSR-009	4/13/2021							**260**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,900**	NS	NS
MW-18	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,100**	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022							**1,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,200**	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-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-17[A]	W-R2330027-041421-SSR-023	4/14/2021	**370**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330027-041421-SSR-023	4/14/2021	**340**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022	**470**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	**370**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	**600**	<0.2	**15 J**	**1.6 J**	**0.047 J**	**0.18 J**	**16**	**27 J**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	**250**	<0.2	**3.1 J**	<5.0	<0.20	**0.21 J**	**0.61 J**	**2.9 J**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014	**3,800**	**0.030 J**	**79**	**8.0**	**0.17 J**	**1.3 J**	**90**	**200**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	**210**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	<4.0	**3.6 J**
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015	**2700**	<0.2	**71**	**2.5 J**	**0.16 J**	**0.91 J**	**67**	**170**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	**180**	<0.2	**5.3 J**	<5.0	<0.20	<2.0	<4.0	**4.6 J**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016	**220**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-041916-AEP-009	4/19/2016	**140**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-042517-DMS-008	4/25/2017	**150**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017	**880**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	**160**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018	**1700**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	**130**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018	**590**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	**230**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019	**250**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	**190**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019	**240**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-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-18[A]	W-R2330027-041321-SSR-009	4/13/2021	**300**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330027-041321-SSR-009	4/13/2021	**290**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022	**550**	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-18	W-R2330027-042622-ADP-014	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014																			
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																			
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																			
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015																			
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016																			
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016																			
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016																			
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017																			
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017																			
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018																			
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018																			
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019																			
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019																			
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-19[A]	W-R2330027-041321-SSR-011	4/13/2021																			
MW-19	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022																			
MW-19	W-R2330027-042622-SSR-030	4/26/2022	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

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	W-R2330027-042622-ADP-014	4/26/2022	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																			
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-19[A]	W-R2330027-041321-SSR-011	4/13/2021																			
MW-19	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022																			
MW-19	W-R2330027-042622-SSR-030	4/26/2022	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

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	W-R2330027-042622-ADP-014	4/26/2022	NS	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**370**	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
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019							**690**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020							**2,700**	NS	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	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	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	NS	**2,800**	NS	NS
MW-19[A]	W-R2330027-041321-SSR-011	4/13/2021							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,300**	NS	NS
MW-19	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022							**1,900**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,900**	NS	NS
MW-19	W-R2330027-042622-SSR-030	4/26/2022	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,700**	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

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	W-R2330027-042622-ADP-014	4/26/2022	**220**	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
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-19[A]	W-R2330027-041321-SSR-011	4/13/2021	**490**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330027-041321-SSR-011	4/13/2021	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022	**620**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330027-042622-SSR-030	4/26/2022	**580**	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[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-20[A]	W-R2330027-041321-SSR-013	4/13/2021																			
MW-20	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022																			
MW-20	W-R2330027-042622-SSR-029	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-20[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-20[A]	W-R2330027-041321-SSR-013	4/13/2021																			
MW-20	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022																			
MW-20	W-R2330027-042622-SSR-029	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014																			
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.87 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																			
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																			
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015																			
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015																			
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016																			
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016																			
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017																			
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017																			
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018																			
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019																			
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																							
																					Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																					
MW-20[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-20[A]	W-R2330027-041321-SSR-013	4/13/2021							**3,000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-20	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	NS	NS	NS	**36**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,700**	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022							**2,600**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12,000**	NS	NS
MW-20	W-R2330027-042622-SSR-029	4/26/2022	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014							**1,400**	**0.16 J**	**1.9 J**	**38 J**	<1.0	<1.0	**2.4 J**	**1.7 J**	**4.1**		**2,400**	**1.4 J**	<50
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**48 J**	**0.16 J**	<5.0	**31 J**	<1.0	<1.0	<10	**0.91 J**	**1.2 J**	<0.005	**56 J**	<3.0	<50
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014							**480**	**0.15 J**	**1.1 J**	**81 J**	<1.0	**0.076 J**	**1.1 J**	**0.89 J**	**2.0 J**		**850**	**0.72 J**	<50
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.24 J**	**0.70 J**	**72 J**	<1.0	**0.061 J**	**0.22 J**	**0.70 J**	**0.98 J**	<5.0	**42 J**	<3.0	<50
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015							**3,000**	**0.23 J**	**2.2 J**	**73 J**	<1.0	**0.21 J**	**5.1 J**	**2.5 J**	**6.2**		**4,100**	**2.9 J**	<50
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.19 J**	<5.0	**62 J**	<1.0	**0.078 J**	**0.14 J**	**0.89 J**	**0.41 J**	<5.0	**20 J**	<3.0	<50
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015							**34 J**	NS	NS	NS	NS	NS	NS	NS	NS		**59 J**	NS	**21,000**
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	**21,000**
MW-21[A] (DUP)	DUP 1	11/18/2015							**27 J**	NS	NS	NS	NS	NS	NS	NS	NS		**47 J**	NS	**20,000**
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	**21,000**
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016							**190**	NS	NS	NS	NS	NS	NS	NS	NS		**320**	NS	NS
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**50 J**	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016							**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14 J**	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017							**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**220**	NS	**19,000**
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	**6.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36 J**	NS	**20,000**
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017							**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**200**	NS	
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018							**270**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**670**	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**190**	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93**	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**52**	NS	NS
MW-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

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-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-20[A]	W-R2330027-041321-SSR-013	4/13/2021	**400**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330027-041321-SSR-013	4/13/2021	**240**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022	**410**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330027-042622-SSR-029	4/26/2022	**180**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	**60**	<0.2	**5.5 J**	**0.68 J**	<0.20	<2.0	**3.8 J**	**9.9 J**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	**9.1 J**	<0.2	**1.9 J**	<5.0	<0.20	<2.0	**0.32 J**	**1.9 J**
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014	**52**	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.8 J**	**8.2 J**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	**37 J**	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	**4.5 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015	**100**	<0.2	**7.7 J**	<5.0	**0.038 J**	<2.0	**8.5**	**18 J**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	**25 J**	<0.2	**2.0 J**	<5.0	<0.20	<2.0	<4.0	<50
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016	**4.6 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-042016-JPM-015	4/20/2016	**3.8 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016	**35 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	**36 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017	**33 J**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	**24 J**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017	**46**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	**43**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018	**150**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	**120**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	**110**	NS	NS	NS	NS	NS	NS	NS
MW-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

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	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-21[A]	W-R2330027-041421-KRM-024	4/14/2021																			
MW-21	W-R2330027-041421-KRM-024	4/14/2021	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	4/27/2022																			
MW-21 (DUP)	DUP 1	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022																			
MW-21	W-R2330027-042722-SSR-024	4/27/2022	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-22[A]	W-R2330027-041421-KRM-026	4/14/2021																			
MW-22	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022																			
MW-22	W-R2330027-042722-SSR-023	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014																			
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<25	<1.0	<1.0	<50	<50	**3.7**	<1.0	<5.0	**40**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																			
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<25	<1.0	<1.0	<50	<50	**4.2**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																			
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<25	<1.0	<1.0	<50	<50	**5.4**	<1.0	<5.0	**89**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																			
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<25	<1.0	<1.0	<50	<50	**2.7**	<1.0	<5.0	**45**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																			
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<25	<1.0	<1.0	<50	<50	**4.1**	<1.0	<5.0	**72**	<5.0	<0.25	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

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	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-21[A]	W-R2330027-041421-KRM-024	4/14/2021																			
MW-21	W-R2330027-041421-KRM-024	4/14/2021	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	4/27/2022																			
MW-21 (DUP)	DUP 1	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022																			
MW-21	W-R2330027-042722-SSR-024	4/27/2022	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-22[A]	W-R2330027-041421-KRM-026	4/14/2021																			
MW-22	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022																			
MW-22	W-R2330027-042722-SSR-023	4/27/2022	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																			
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

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	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-21[A]	W-R2330027-041421-KRM-024	4/14/2021							**84**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**370**	NS	NS
MW-21	W-R2330027-041421-KRM-024	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**320**	NS	NS
MW-21[A] (DUP)	DUP 1	4/27/2022							**16000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19,000**	NS	NS
MW-21 (DUP)	DUP 1	4/27/2022	NS	NS	NS	NS	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**83**	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022							**18000**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21,000**	NS	NS
MW-21	W-R2330027-042722-SSR-024	4/27/2022	NS	NS	NS	NS	NS	NS	**46**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**82**	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-22[A]	W-R2330027-041421-KRM-026	4/14/2021							**54**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,500**	NS	NS
MW-22	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,200**	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022							**730**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-22	W-R2330027-042722-SSR-023	4/27/2022	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,800**	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
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**

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	W-R2330026-110420-SSR-007	11/4/2020	**290**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-041421-KRM-024	4/14/2021	**210**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330027-041421-KRM-024	4/14/2021	**200**	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	4/27/2022	**1200**	NS	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	4/27/2022	**60**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022	**1000**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330027-042722-SSR-024	4/27/2022	**53**	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-22[A]	W-R2330027-041421-KRM-026	4/14/2021	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330027-041421-KRM-026	4/14/2021	**120**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022	**180**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330027-042722-SSR-023	4/27/2022	**150**	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**
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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-23[A]	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-23[A]	W-R2330027-041421-SSR-021	4/14/2021																			
MW-23	W-R2330027-041421-SSR-021	4/14/2021	<0.52	<0.32	<0.35	<0.52	<6.2	**1.5**	<0.49	<0.49	**43**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35	<0.35	<0.45
MW-23[A]	W-R2330027-042722-SSR-021	4/27/2022																			
MW-23	W-R2330027-042722-SSR-021	4/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0	**31**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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-24[A]	R-2330027-041421-SSR-019	4/14/2021																			
MW-24	R-2330027-041421-SSR-019	4/14/2021	<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
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			

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-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-23[A]	W-R2330027-041421-SSR-021	4/14/2021																			
MW-23	W-R2330027-041421-SSR-021	4/14/2021	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330027-042722-SSR-021	4/27/2022																			
MW-23	W-R2330027-042722-SSR-021	4/27/2022	<1.0	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-24[A]	R-2330027-041421-SSR-019	4/14/2021																			
MW-24	R-2330027-041421-SSR-019	4/14/2021	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014																			
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.80 J**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																			
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-23[A]	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-23[A]	W-R2330027-041421-SSR-021	4/14/2021							**410**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14,000**	NS	NS
MW-23	W-R2330027-041421-SSR-021	4/14/2021	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-R2330027-042722-SSR-021	4/27/2022							**78**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9,700**	NS	NS
MW-23	W-R2330027-042722-SSR-021	4/27/2022	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8,000**	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-24[A]	R-2330027-041421-SSR-019	4/14/2021							**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31,000**	NS	NS
MW-24	R-2330027-041421-SSR-019	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014							**2,600**	**0.24 J**	**1.9 J**	**83 J**	<1.0	<1.0	**3.8 J**	**1.5 J**	**7.4**		**3,800**	**2.5 J**	<50
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**51**	**0.21 J**	**0.63 J**	**68 J**	<1.0	<1.0	<10	**0.59 J**	**3.7 J**	<0.005	**110 J**	**0.25 J**	<50
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014							**400**	**0.18 J**	**0.85 J**	**72 J**	<1.0	**0.11 J**	**1.3 J**	**0.53 J**	**3.2 J**		**570**	**0.59 J**	<50
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**5.9 J**	**0.15 J**	<5.0	**66 J**	<1.0	**0.071 J**	<10	**0.33 J**	**2.9 J**	<5.0	**16 J**	<3.0	<50
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015							**450**	**0.22 J**	**0.88 J**	**72 J**	<1.0	**0.060 J**	**0.84 J**	**0.77 J**	**4.2**		**620**	**0.57 J**	<50

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[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-23[A]	W-R2330027-041421-SSR-021	4/14/2021	**110**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330027-041421-SSR-021	4/14/2021	**100**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330027-042722-SSR-021	4/27/2022	**74**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330027-042722-SSR-021	4/27/2022	**74**	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	**1,000**	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-24[A]	R-2330027-041421-SSR-019	4/14/2021	**1,300**	NS	NS	NS	NS	NS	NS	NS
MW-24	R-2330027-041421-SSR-019	4/14/2021	**1,200**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	**190**	<0.2	**6.3 J**	**2.4 J**	<0.20	<2.0	**6.8**	**12 J**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	**150**	<0.2	**2.3 J**	1.7 J	<0.20	<2.0	**0.35 J**	**2.2 J**
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	**340**	<0.2	**6.5 J**	**1.1 J**	<0.20	<2.0	**1.4 J**	**6.1 J**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	**250**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	<4.0	**4.4 J**
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015	**310**	<0.2	**4.9 J**	**1.2 J**	<0.20	<2.0	**1.5 J**	**6.3 J**

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-25	W-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-25[A]	W-R2330027-041421-KRM-020	4/14/2021																			
MW-25	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022																			
MW-25	W-R2330027-042722-SRS-020	4/27/2022	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-26[A]	W-R2330027-041421-KRM-022	4/14/2021																			
MW-26	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-25	W-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-25[A]	W-R2330027-041421-KRM-020	4/14/2021																			
MW-25	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022																			
MW-25	W-R2330027-042722-SRS-020	4/27/2022	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-26[A]	W-R2330027-041421-KRM-022	4/14/2021																			
MW-26	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																				Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-25	W-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-25[A]	W-R2330027-041421-KRM-020	4/14/2021							**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**410**	NS	NS
MW-25	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022							**61**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,200**	NS	NS
MW-25	W-R2330027-042722-SRS-020	4/27/2022	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014							**900**	**0.37 J**	**2.7 J**	**37 J**	<1.0	<1.0	**1.8 J**	**1.2 J**	**4.6**		**1,900**	**1.1 J**	<50
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**36 J**	**0.39 J**	**1.5 J**	**34 J**	<1.0	<1.0	<10	**1.1 J**	**1.0 J**	<0.005	**55 J**	<3.0	<50
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014							**210**	**0.22 J**	<5.0	**25 J**	<1.0	**0.13 J**	**0.52 J**	**0.65 J**	**2.0 J**		**360**	<3.0	<50
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**8.4 J**	**0.16 J**	<5.0	**24 J**	<1.0	**0.079 J**	<10	**0.54 J**	**1.0 J**	<5.0	<200	<3.0	<50
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015							**2,200**	**0.33 J**	**3.5 J**	**34 J**	<1.0	**0.16 J**	**4.5 J**	**2.1 J**	**7.8**		**4,300**	**3.4**	<50
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**82**	**0.27 J**	<5.0	**21 J**	<1.0	**0.070 J**	**0.29 J**	**0.80 J**	**2.2 J**	<5.0	**130 J**	<3.0	<50
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015							**910**	NS	NS	NS	NS	NS	NS	NS	NS		**2,300**	NS	21000
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	20000
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016							**1,200**	NS	NS	NS	NS	NS	NS	NS	NS		**2,100**	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**160 J**	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016							**500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**910**	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**310**	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017							**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**790**	NS	**14,000**
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23 J**	NS	**13,000**
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017							**250**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**480**	NS	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018							**290**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**470**	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019							**440**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**650**	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-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-26[A]	W-R2330027-041421-KRM-022	4/14/2021							**85**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS
MW-26	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-25	W-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-25[A]	W-R2330027-041421-KRM-020	4/14/2021	**580**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330027-041421-KRM-020	4/14/2021	**380**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022	**570**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330027-042722-SRS-020	4/27/2022	**280**	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-26[A]	W-R2330027-041421-KRM-022	4/14/2021	**6.6**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330027-041421-KRM-022	4/14/2021	<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-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-26[A]	W-R2330027-042722-SSR-022	4/27/2022																			
MW-26	W-R2330027-042722-SSR-022	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	<1.0	NS	NS	NS	NS	NS	NS	<5.0	<5.0	NS	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-27[A]	NS	NS																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-27[A]	W-R2330027-041321-KRM-0012	4/13/2021																			
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022																			
MW-27	W-R2330027-042522-ADP-005	4/25/2022	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																			

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-26[A]	W-R2330027-042722-SSR-022	4/27/2022																			
MW-26	W-R2330027-042722-SSR-022	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014																			
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<5.0	NS	NS	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																			
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-27[A]	NS	NS																			
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015																			
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016																			
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016																			
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016																			
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017																			
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017																			
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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-27[A]	W-R2330027-041321-KRM-0012	4/13/2021																			
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022																			
MW-27	W-R2330027-042522-ADP-005	4/25/2022	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																			

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-26[A]	W-R2330027-042722-SSR-022	4/27/2022							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**370**	NS	NS
MW-26	W-R2330027-042722-SSR-022	4/27/2022	NS	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014							**190**	**0.61 J**	**4.7 J**	**240**	<1.0	**0.097 J**	**0.69 J**	**2.4 J**	**3.7 J**		**1,700**	**0.70 J**	<50
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	**5.8 J**	**0.58 J**	**4.5 J**	**240**	<1.0	<1.0	<10	**2.9 J**	**1.9 J**	NS	**1,500**	**0.076 J**	<50
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014							**460**	**0.25 J**	**2.7 J**	**200**	<1.0	**0.063 J**	**1.2 J**	**2.5 J**	**4.2**		**1,900**	**1.2 J**	<50
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**32 J**	**0.18 J**	**2.2 J**	**290**	<1.0	<1.0	**0.22 J**	**2.1 J**	**1.4 J**	<5.0	**2,600**	<3.0	<50
MW-27[A]	NS	NS							**270**	**0.43 J**	**0.97 J**	**210**	<1.0	**0.13 J**	**0.76 J**	**1.9 J**	**2.3 J**		**2,200**	**0.62 J**	<50
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**3.8 J**	**0.67 J**	**0.75 J**	**260**	<1.0	**0.23 J**	**0.35 J**	**2.4 J**	**1.3 J**	<5.0	**1,900**	<3.0	<50
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015							**54**	NS	NS	NS	NS	NS	NS	NS	NS		**2,400**	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	**2.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016							**59**	NS	NS	NS	NS	NS	NS	NS	NS		**4,700**	NS	NS
MW-27	NS	4/22/2016	NS	NS	NS	NS	NS	NS	**3.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,100**	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016							**120**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,300**	NS	NS
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,200**	NS	NS
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,000**	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017							**71**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	**75,000**
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,000**	NS	**69,000**
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017							**35**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,800**	NS	NS
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
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-27[A]	W-R2330027-041321-KRM-0012	4/13/2021							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,600**	NS	NS
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	NS	NS	NS	<8	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022							**730.0**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11,000**	NS	NS
MW-27	W-R2330027-042522-ADP-005	4/25/2022	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6,800**	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

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-26[A]	W-R2330027-042722-SSR-022	4/27/2022	**9**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330027-042722-SSR-022	4/27/2022	<5	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	**160**	**0.064 J**	**9.1 J**	<5.0	<0.20	<2.0	**1.1 J**	**7.0 J**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	**160**	**0.062 J**	**8.8 J**	<5.0	<0.20	<2.0	**0.55 J**	**5.0 J**
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014	**140**	<0.2	**9.3 J**	**1.1 J**	<0.20	<2.0	**1.9 J**	**11 J**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	**110**	<0.2	**7.5 J**	**0.79 J**	<0.20	<2.0	**0.66 J**	**4.2 J**
MW-27[A]	NS	NS	**72**	<0.2	**5.7 J**	<5.0	<0.20	<2.0	**1.5 J**	**4.0 J**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	**80**	<0.2	**6.8 J**	**0.97 J**	**0.095 J**	<2.0	<4.0	**3.1 J**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016	**94**	NS	NS	NS	NS	NS	NS	NS
MW-27	NS	4/22/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330021-110416-JPM-033	11/4/2016	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27[A] (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017	**100**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-042817-AFB-031	4/28/2017	**90**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017	**92**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-102417-DMS-009	10/24/2017	**91**	NS	NS	NS	NS	NS	NS	NS
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-27[A]	W-R2330027-041321-KRM-0012	4/13/2021	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022	**180**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330027-042522-ADP-005	4/25/2022	**150**	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

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	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-29[A]	W-R2330027-041321-SSR-005	4/13/2021																			
MW-29	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022																			
MW-29	W-R2330027-042822-SSR-027	4/28/2022	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

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	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016																			
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017																			
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017																			
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018																			
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018																			
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019																			
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019																			
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-29[A]	W-R2330027-041321-SSR-005	4/13/2021																			
MW-29	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022																			
MW-29	W-R2330027-042822-SSR-027	4/28/2022	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

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	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
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-29[A]	W-R2330027-041321-SSR-005	4/13/2021							**19**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,400**	NS	NS
MW-29	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,800**	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022							**1700**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**34,000**	NS	NS
MW-29	W-R2330027-042822-SSR-027	4/28/2022	NS	NS	NS	NS	NS	NS	10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,200**	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

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	W-R2330021-042216-AFB-033	4/22/2016	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016	**300**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-110416-AEM-031	11/4/2016	**290**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017	**240**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-042517-JPM-006	4/25/2017	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-102617-AFB-024	10/26/2017	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	**250**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018	**66**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	**210**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	**180**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019	**170**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	**170**	NS	NS	NS	NS	NS	NS	NS
MW-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-29[A]	W-R2330027-041321-SSR-005	4/13/2021	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330027-041321-SSR-005	4/13/2021	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022	**180**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330027-042822-SSR-027	4/28/2022	**57**	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

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-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-30[A]	W-R2330027-041321-SSR-007	4/13/2021																			
MW-30	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022																			
MW-30	W-R2330027-042822-SSR-028	4/28/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-31[A]	W-R2330027-041221-KRM-001	4/12/2021																			
MW-31	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022																			
MW-31	W-R2330027-042522-SSR-001	4/25/2022	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																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-30[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-30[A]	W-R2330027-041321-SSR-007	4/13/2021																			
MW-30	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022																			
MW-30	W-R2330027-042822-SSR-028	4/28/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015																			
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015																			
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016																			
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016																			
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017																			
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017																			
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018																			
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018																			
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019																			
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019																			
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-31[A]	W-R2330027-041221-KRM-001	4/12/2021																			
MW-31	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022																			
MW-31	W-R2330027-042522-SSR-001	4/25/2022	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																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																						
																					Metals	
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																				
MW-30[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-30[A]	W-R2330027-041321-SSR-007	4/13/2021							**130**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS
MW-30	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022							**1400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-30	W-R2330027-042822-SSR-028	4/28/2022	NS	NS	NS	NS	NS	NS	8.8	NS	NS	NS	NS	NS	NS	NS	NS	NS	67	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
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-31[A]	W-R2330027-041221-KRM-001	4/12/2021							41	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150,000**	NS	NS
MW-31	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**870**	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022							**96**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,100**	NS	NS
MW-31	W-R2330027-042522-SSR-001	4/25/2022	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,600**	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-30[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-30[A]	W-R2330027-041321-SSR-007	4/13/2021	**79**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330027-041321-SSR-007	4/13/2021	**65**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022	**250**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330027-042822-SSR-028	4/28/2022	**29**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	**240**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-060515-ACN-001	6/5/2015	**240**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016	**360**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-041816-JPM-003	4/18/2016	**390**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016	**400**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-103116-AEM-003	10/31/2016	**370**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017	**410**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-042417-DMS-002	4/24/2017	**420**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017	**440**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-102617-DMS-003	10/23/2017	**430**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018	**630**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	**400**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018	**830**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	**280**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019	**590**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	**530**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019	**610**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	**590**	NS	NS	NS	NS	NS	NS	NS
MW-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-31[A]	W-R2330027-041221-KRM-001	4/12/2021	**5,800**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330027-041221-KRM-001	4/12/2021	**620**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022	**520**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330027-042522-SSR-001	4/25/2022	**510**	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
MW-32	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-32[A]	W-R2330027-041221-KRM-002	4/12/2021																			
MW-32	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022																			
MW-32	W-R2330027-042522-ADH002	4/25/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-33[A]	W-R2330027-041221-KRM-003	4/12/2021																			
MW-33	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022																			
MW-33	W-R2330027-042522-SSR-003	4/25/2022	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{vi-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
MW-32	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-32[A]	W-R2330027-041221-KRM-002	4/12/2021																			
MW-32	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022																			
MW-32	W-R2330027-042522-ADH002	4/25/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015																			
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015																			
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016																			
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016																			
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017																			
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017																			
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018																			
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018																			
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019																			
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019																			
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-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-33[A]	W-R2330027-041221-KRM-003	4/12/2021																			
MW-33	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022																			
MW-33	W-R2330027-042522-SSR-003	4/25/2022	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																							
																					Metals		
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																					
MW-32	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-32[A]	W-R2330027-041221-KRM-002	4/12/2021							**360**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-32	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	NS	NS	NS	**24**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,900**	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022							**2,500**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,600**	NS	NS
MW-32	W-R2330027-042522-ADH002	4/25/2022	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,200**	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015							**1,000**	NS	NS	NS	NS	NS	NS	NS	NS		**4,500**	NS	<50
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,200**	NS	<50
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015							**860**	NS	NS	NS	NS	NS	NS	NS	NS		**3,400**	NS	**84,000**
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	**85,000**
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016							**67**	NS	NS	NS	NS	NS	NS	NS	NS		**2,700**	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	**3.8 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016							**400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017							**820**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	**96,000**
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,200**	NS	**98,000**
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017							**430**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,700**	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,300**	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018							**5.2 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018							**530**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,500**	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	**3.4**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019							**300**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,300**	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	**6.0 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,400**	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019							**28**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4,100**	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,900**	NS	NS
MW-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	<8.0	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-33[A]	W-R2330027-041221-KRM-003	4/12/2021							**150**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,800**	NS	NS
MW-33	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,600**	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022							**1100**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5,100**	NS	NS
MW-33	W-R2330027-042522-SSR-003	4/25/2022	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3,500**	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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Manganese (B)	Mercury	Nickel	Selenium (B)	Silver	Thallium	Vanadium	Zinc
Non-residential Drinking Water Criteria (II)			50 (E)	2.0 (A)	100 (A)	50 (A)	98	2.0 (A)	62	5,000 (E)
Non-residential Health-Based Drinking Water Value (E)			2,500	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			2,800 (G)	0.0013	73 (G)	5.0	0.2 (M); 0.06	3.7	27	170 (G)
GSI Final Acute Value (FAV)			12,112 (G)	2.8	1,320 (G)	120	1.1	94	220	330 (G)
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NLV	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			NA	56	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE								
MW-32	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-32[A]	W-R2330027-041221-KRM-002	4/12/2021	**59**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330027-041221-KRM-002	4/12/2021	**63**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022	**170**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330027-042522-ADH002	4/25/2022	**61**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	**120**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-060515-ACN-003	6/5/2015	**80**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016	**81**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016	**78**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-103116-JPM-005	10/31/2016	**64**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-042417-DMS-003	4/24/2017	**89**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017	**72**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	**68**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018	**84**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	**75**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	**90**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019	**69**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	**70**	NS	NS	NS	NS	NS	NS	NS
MW-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-33[A]	W-R2330027-041221-KRM-003	4/12/2021	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330027-041221-KRM-003	4/12/2021	**74**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330027-042522-SSR-003	4/25/2022	**72**	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

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-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-34[A]	W-R2330027-041221-SSR-015	4/13/2021																			
MW-34	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021																			
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022																			
MW-34	W-R2330027-042822-SSR-031	4/28/2022	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																			
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																			

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-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-34[A]	W-R2330027-041221-SSR-015	4/13/2021																			
MW-34	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021																			
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022																			
MW-34	W-R2330027-042822-SSR-031	4/28/2022	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																			
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																			

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-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-34[A]	W-R2330027-041221-SSR-015	4/13/2021							**110**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-34	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021							**140**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,400**	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022							**2,400**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7,300**	NS	NS
MW-34	W-R2330027-042822-SSR-031	4/28/2022	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,700**	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
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

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-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-34[A]	W-R2330027-041221-SSR-015	4/13/2021	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330027-041221-SSR-015	4/13/2021	**200**	NS	NS	NS	NS	NS	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021	**200**	NS	NS	NS	NS	NS	NS	NS
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	**180**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022	**260**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330027-042822-SSR-031	4/28/2022	**170**	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
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

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-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
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021																			
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022																			
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.37 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																			
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.31 J**
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																			
SB-21	W-R2330009-120513-RD-001	12/5/2013	<25	<1.0	<1.0	<50	<50	**6.7**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	**1.4**	**2.5 J**	<1.0	**0.44 J**
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																			
SB-22	W-R2330009-120513-RD-002	12/5/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**0.72 J**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0

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-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
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021																			
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022																			
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013																			
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.28 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.21 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																			
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.77 J**	<5.0	<5.0	<10	**0.34 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.25 J**
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**

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-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
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021							**30**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**280**	NS	NS
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022							**550**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2,000**	NS	NS
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013							**120,000**	**2.8 J**	**300**	**730 J**	**5.9 J**	**4.0 J**	**240**	**140 J**	**510**		**310,000**	**250**	<50
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**23 J**	**0.37 J**	<2.0	**59 J**	<1.0	**0.071 J**	<10	**8.0 J**	**2.3 J**	<0.005	**71 J**	**0.072 J**	<50
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013							**2,100**	**0.54 J**	**2.1 J**	**65 J**	**0.12 J**	**0.20 J**	**4.6 J**	**9.6 J**	**7.4**		**3,500**	**4.0**	<50
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<1.0	<5.0	<5.0	<2.0	<5.0	<5.0	**14 J**	**0.37 J**	<2.0	**49 J**	<1.0	**0.064 J**	<10	**5.4 J**	**1.9 J**	<0.005	**150 J**	**0.11 J**	<50
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

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-ccc}) (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-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
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021	**70**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	**31**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022	**450**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	**4**	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	**5,300**	**0.98**	**410**	**13 J**	**0.78 J**	**7.6 J**	**380**	**1,500**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	**610**	<0.2	**14 J**	<5.0	<0.20	<2.0	**0.20 J**	**4.0 J**
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013	**800**	<0.2	**22**	**0.68 J**	<0.20	**0.35 J**	**7.3**	**22 J**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	**470**	<0.2	**12 J**	**0.68 J**	<0.20	<2.0	**0.19 J**	**4.8 J**
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**

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-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<25	<1.0	<1.0	<50	<50	**2.4**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			
SB-24	W-R2330009-120613-RD-004	12/6/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.29 J**
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																			
SB-25	W-R2330009-120613-RD-005	12/6/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.48 J**
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<25	<1.0	<1.0	<50	**3.2 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.28 J**
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																			
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<25	<1.0	<1.0	<50	**6.1 J**	<1.0	<1.0	**0.53 J**	<1.0	**2.9 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																			
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	**4.3 J**	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																			
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<25	<1.0	<1.0	<50	**3.6 J**	<1.0	<1.0	**0.53 J**	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																			
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<25	**1.3**	**2.6**	<50	**4.7 J**	**12.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	**0.84 J**	<5.0	<5.0	**14.0**	**6.0**	<1.0	**39**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																			
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<25	<1.0	**0.98 J**	<50	<50	**21.0**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	**5.5 J**	<5.0	<5.0	**0.29 J**	**2.0 J**	<1.0	**0.33 J**
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																			
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<1.0	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																			
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<25	<1.0	<1.0	<50	<50	**1.1**	<1.0	<5.0	**1.4**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	**1.3 J**	<1.0	**0.27 J**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																			
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<25	<1.0	<1.0	<50	**3.9 J**	**0.71 J**	<1.0	**0.44 J**	**1.2**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	**0.62 J**	<1.0	**0.29 J**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																			
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.44 J**
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																			
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.38 J**
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<25	<1.0	<1.0	<50	**14 J**	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	**6.2**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
SB-19	W-2330012-040114-ACN-004	4/1/2014	<25	<1.0	<1.0	<50	**3.3 J**	**0.36 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	**1.1**	**0.62 J**
SB-20	W-2330012-040114-ACN-005	4/1/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.25 J**
SB-35	W-2330012-040114-ACN-006	4/1/2014	<25	<1.0	**1.5**	<50	**3.3 J**	**6.1**	<1.0	<5.0	**2.0**	<5.0	NS	<1.0	**1.5**	<5.0	<5.0	**0.18 J**	**1.4 J**	**1.1**	**0.25 J**
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<25	<1.0	<1.0	<50	**7.1 J**	**2.5**	<1.0	<5.0	**1.2**	<5.0	NS	<1.0	<10	<5.0	<5.0	**0.84 J**	**1.9 J**	<1.0	**0.54 J**
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<25	<1.0	<1.0	<50	**7.8 J**	**2.7**	<1.0	<5.0	**1.4**	<5.0	NS	<1.0	**1.4 J**	<5.0	<5.0	**0.86 J**	**2.0 J**	<1.0	**0.52 J**
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<25	<1.0	<1.0	<50	**6.9 J**	**2.6**	<1.0	**1.3 J**	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	**0.84 J**	<5.0	<1.0	**0.82 J**
SB-38	W-R2330012-040314-ACN-010	4/3/2014	**2.2 J**	<1.0	**0.98 J**	<50	**16 J**	**2.8**	<1.0	**1.4 J**	**0.96 J**	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	**1.6 J**	<1.0	**0.38 J**
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<25	<1.0	**0.91 J**	<50	**11 J**	**17**	<1.0	**1.6 J**	**90**	<5.0	NS	<1.0	**2.0 J**	<5.0	<5.0	<1.0	**2.0 J**	<1.0	**0.30 J**
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.30 J**
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<25	<1.0	<1.0	<50	<50	**0.31 J**	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.49 J**
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	**0.35 J**
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0	<1.0	<1.0
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

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-23[A]	W-R2330009-120513-RD-003	12/5/2013																			
SB-23	W-R2330009-120513-RD-003	12/5/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																			
SB-24	W-R2330009-120613-RD-004	12/6/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																			
SB-25	W-R2330009-120613-RD-005	12/6/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																			
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.16 J**
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																			
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.26 J**	<5.0	<5.0	<10	**0.28 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.22 J**
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																			
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.29 J**	<10	<4.0	<5.0	<5.0	<5.0	**0.19 J**
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																			
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.18 J**
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																			
SB-29	W-R2330009-121213-AJL-014	12/12/2013	**74.0**	<10	**0.67 J**	**1.6 J**	**0.46 J**	**2.0 J**	<5.0	<10	<5.0	**6.0 J**	**1.0 J**	**1.2 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.26 J**
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																			
SB-30	W-R2330009-121213-AJL-016	12/12/2013	**1.0 J**	<10	**3.1 J**	**2.9 J**	<10	<10	<5.0	<10	<5.0	**1.2 J**	<5.0	**0.92 J**	<5.0	<10	**0.64 J**	<5.0	<5.0	<5.0	**0.21 J**
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																			
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																			
SB-32	W-R2330009-121213-AJL-015	12/12/2013	**1.0 J**	<10	<10	**1.2 J**	<10	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	**0.85 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	**0.37 J**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																			
SB-33	W-R2330009-121213-AJL-017	12/12/2013	**1.3 J**	<10	<10	**0.29 J**	<10	**0.40 J**	<5.0	<10	**0.59 J**	**0.39 J**	<5.0	**0.73 J**	<5.0	<10	<4.0	<5.0	**0.37 J**	<5.0	**0.26 J**
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																			
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																			
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.69 J**	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-19	W-2330012-040114-ACN-004	4/1/2014	**1.0 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-20	W-2330012-040114-ACN-005	4/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-35	W-2330012-040114-ACN-006	4/1/2014	**1.9 J**	<10	<10	**2.4 J**	<10	**1.6 J**	<5.0	<10	<5.0	**1.7 J**	<5.0	<10	<5.0	**1.9 J**	<4.0	<5.0	<5.0	<5.0	<5.0
SB-36	W-R2330012-040314-ACN-007	4/3/2014	**2.8 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	**2.8 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-37	W-R2330012-040314-ACN-009	4/3/2014	**1.7 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-38	W-R2330012-040314-ACN-010	4/3/2014	**1.5 J**	<10	<10	**1.5 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-39	W-R2330012-040314-ACN-011	4/3/2014	**1.5 J**	<10	<10	**1.2 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
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

Table 2
Summary Of Ground Water Sample Results

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

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

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-23[A]	W-R2330009-120513-RD-003	12/5/2013	1,600	0.12 J	130 J	12 J	<0.20	0.96 J	9.3	420 J
SB-23	W-R2330009-120513-RD-003	12/5/2013	70	<0.2	9.1 J	0.76 J	<0.20	<2.0	1.7 J	5.6 J
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013	4,100	0.30	210	9.8 J	0.53 J	2.4 J	86	580
SB-24	W-R2330009-120613-RD-004	12/6/2013	360	<0.2	14 J	0.73 J	<0.20	<2.0	0.38 J	4.8 J
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013	9,200	0.95	1,100	27 J	1.7 J	6.3 J	590	1,700
SB-25	W-R2330009-120613-RD-005	12/6/2013	530	<0.2	5.0 J	<5.0	<0.20	0.26 J	3.2 J	4.5 J
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013	14,000	0.51	1,100	47 J	2.5	13 J	660	2,900
SB-26	W-R2330009-121013-AJL-009	12/10/2013	92	<0.2	14 J	0.75 J	<0.20	<2.0	0.67 J	14 J
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013	2,800	<0.2	210	9.4 J	<0.20	2.3 J	180	680
SB-27	W-R2330009-121113-AJL-010	12/11/2013	310	<0.2	25	<5.0	<0.20	<2.0	0.46 J	19 J
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013	730	<0.2	53 J	<5.0	<0.20	<2.0	46	140 J
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	300	<0.2	24	<5.0	<0.20	<2.0	<4.0	18 J
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013	4,100	0.23	310	13 J	0.75 J	3.3 J	320	800
SB-28	W-R2330009-121113-AJL-012	12/11/2013	180	<0.2	15 J	<5.0	<0.20	<2.0	0.49 J	4.2 J
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013	980	0.13	51 J	<5.0	<0.20	<2.0	24 J	470 J
SB-29	W-R2330009-121213-AJL-014	12/12/2013	580	<0.2	12 J	<5.0	<0.20	<2.0	1.7 J	18 J
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013	380 J	0.15	22 J	<5.0	<0.20	<2.0	19 J	950
SB-30	W-R2330009-121213-AJL-016	12/12/2013	260 J	<0.2	8.2 J	<5.0	<0.20	<2.0	<4.0	<500
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013	130	0.1	9.7 J	<5.0	<2.0	<2.0	6.6	44
SB-31	W-R2330009-121213-AJL-018	12/12/2013	170 J	<0.2	19 J	<5.0	<2.0	<2.0	<4.0	<27
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013	290 J	<0.2	31 J	<5.0	<0.20	<2.0	2.4 J	210 J
SB-32	W-R2330009-121213-AJL-015	12/12/2013	270 J	<0.2	19 J	<5.0	<0.20	<2.0	2.4 J	16 J
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013	2,200	2.2	320	<5.0	16	<2.0	90	9,900
SB-33	W-R2330009-121213-AJL-017	12/12/2013	420 J	<0.2	16 J	<5.0	<0.20	<2.0	2.3 J	61 J
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013	130	0.11	9.7 J	<5.0	<2.0	<2.0	6.6	44 J
SB-34	W-R2330009-121313-AJL-018	12/13/2013	170 J	<0.2	19 J	<5.0	<2.0	<2.0	<4.0	27 J
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013	610	0.43	40	2.6 J	0.18 J	0.37 J	30	140
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	1,500	<0.2	26 J	<5.0	<2.0	<2.0	1.7 J	34 J
SB-16	W-R2330012-033114-ACN-001	3/31/2014	270	<0.2	31	0.98 J	<0.2	<2.0	0.86 J	360
SB-17	W-R2330012-033114-ACN-002	3/31/2014	390	<0.2	7.5 J	1.7 J	<0.2	<2.0	0.69 J	19 J
SB-18	W-R2330012-033114-ACN-003	3/31/2014	660	<0.2	11 J	<5.0	<0.2	<2.0	1.4 J	140
SB-19	W-2330012-040114-ACN-004	4/1/2014	930	<0.2	18 J	0.84 J	<0.20	<2.0	0.46 J	62
SB-20	W-2330012-040114-ACN-005	4/1/2014	98	<0.2	2.6 J	0.73 J	<0.20	<2.0	1.3 J	2.8 J
SB-35	W-2330012-040114-ACN-006	4/1/2014	550	<0.2	10 J	<5.0	<0.20	<2.0	2.2 J	16 J
SB-36	W-R2330012-040314-ACN-007	4/3/2014	260	<0.2	9.7 J	<5.0	<0.20	<2.0	3.3 J	2.9 J
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	250 J	<0.2	9.6 J	<5.0	<0.20	<2.0	3.3 J	2.5 J
SB-37	W-R2330012-040314-ACN-009	4/3/2014	530	<0.2	31 J	<5.0	<0.20	<2.0	1.1 J	340
SB-38	W-R2330012-040314-ACN-010	4/3/2014	430	<0.2	15 J	<5.0	<0.20	<2.0	<4.0	21 J
SB-39	W-R2330012-040314-ACN-011	4/3/2014	300	<0.2	11 J	1.1 J	<0.20	1.5 J	1.1 J	6.9 J
SB-46	W-R2330012-041114-ACN-015	4/11/2014	960	<0.2	9.6 J	<5.0	<0.20	<2.0	<4.0	7.8 J
SB-47	W-R2330012-041114-ACN-016	4/11/2014	1,200	<0.2	17 J	7.2	<0.2	<2.0	0.59 J	9.0 J
SB-48	W-R2330012-040314-ACN-013	4/9/2014	410	<0.2	20 J	5.4 J	<0.20	<2.0	2.4 J	21J
SB-49	W-R2330012-040314-ACN-014	4/9/2014	59	<0.2	1.4 J	<5.0	<0.20	<2.0	<4.0	1.3 J
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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																		
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nrf}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
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-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																			
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
SW-3[A]	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<0.84	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<3.0	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	**0.89 J**	**0.88 J**	**1.7 J**
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																			
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																			
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	**0.16 J**
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																			
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																			
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<5.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																			
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																			
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																			
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																			
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																			
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																			
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<11	<4.2	<5.0	<5.3	<5.3	<5.3
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																			
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																			
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<4.0	<5.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																			
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																			
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10	<4.0	<5.0	<5.0	<5.0

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L																										
																							Metals			
			Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper (B)	Cyanide (P,R)	Iron (B)	Lead (B)	Magnesium (B)
Non-residential Drinking Water Criteria (II)			210 (S)	2,000 (S)	1,500	150	140 (S)	13,000	50 (E)(V)	6.0 (A)	10 (A)	2,000 (A)	4.0 (A)	5.0 (A)	100 (A)	100	1,000 (E)	200 (A)	300 (E)	4.0 (L)	1.1E+06
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	4,100	NA	NA	NA	NA	NA	NA	NA	4,000	NA	5,600	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11	100	13 (G)	5.2	NA	29	NA
GSI Final Acute Value (FAV)			220	200	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588	740	39 (G)	NA	NA	551	NA
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			NA	300,000	1,200	4.8E+2	1.7E+06	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV	NLV
Water Solubility (VII)			206	1,980	31,000	1,000	135	8.28E+7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																			
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_{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								
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-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019																			

Table 2
Summary Of Ground Water Sample Results

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

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

Table 2
Summary Of Ground Water Sample Results

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

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

Table 2
Summary Of Ground Water Sample Results

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

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

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)																	
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene	Methylcyclohexane	Toluene
Non-residential Drinking Water Criteria (II)			38,000	600 (A)	75 (A)	5,200	2,100	5.0 (A)	80 (A,W)	2,300	100 (A)	1,700	1,100	80 (A,W)	NA	80 (A,W)	4,800	74 (E)	2,300	NA	790 (E)
Non-residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	NA	NA	1,000
Ground Water Surface Water Interface Criteria (GSI) (III)			2,200	13	17	ID	1,700	200 (X)	ID	ID	25	1,100 (X)	ID	350	NA	ID	ID	18	28	NA	270
GSI Final Acute Value (FAV)			40,000	240	210	ID	30,000	1,900	ID	ID	450	20,000	NA	11,000	ID	ID	ID	320	500	NA	2,600
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			2.4E+8 (S)	1.6E+05 (S)	74,000 (S)	2.0E+07 (S)	1.0E+09 (D,S)	35,000	37,000	5.5E+05	4.7E+05 (S)	5.7E+06 (S)	4.5E+04	1.8E+05	NA	1.10E+05	3.0E+05	1.7E+05 (S)	56,000 (S)	NA	5.3E+5 (S)
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019																			
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019																			
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019																			
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019																			
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																			
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019																			
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																			
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019																			
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019																			
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021																			
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021																			
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021																			
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021																			

Table 2
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Non-Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L				Semivolatile Organic Compounds (SVOCs)																	
			Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Carbazole	Dibenzofuran	Dichlorodifluoromethane	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate
Non-residential Drinking Water Criteria (II)			280 (E)	ID	130	750	1,000	1,000	1,000	NA	6.0 (A)	3,800	4,400	NA	2,700 (S)	350	ID	4,800	16,000	2.1E+05	2,500
Non-residential Health-Based Drinking Water Value (E)			10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67 (X)	10 (M); 4.0	4.0	ID	110	NA	9.7
GSI Final Acute Value (FAV)			730	ID	NA	340	NA	1,400	2,700	ID	285	200	NA	NA	NA	72	NA	ID	2,000	NA	75
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			1.9E+05 (S)	ID	1.1E+06	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	10,000 (S)	3.0E+05	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion (GW_{VI-nr}) (a)			10,000 (d)	ID	NA	3,900	NA	NA	NA	NA	NA	2.30E+05	NA	NA	NA	NLV	NA	NA	NA	NA	NA
Water Solubility (VII)			1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.69E+03	7,480	10,000	3.0E+05	1.08E+06	4.19E+06	11,200
Flammability & Explosivity Screening Level (VIII)			70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	ID	ID	ID	NA	NA	NA
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019																			
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019																			
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019																			
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019																			
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019																			
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019																			
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																			
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019																			
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019																			
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021																			
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021																			
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021																			
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021																			

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
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021							**9.9 J**	NS	NS	NS	NS	NS	NS	NS	NS	NS	**91**	NS	NS
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	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	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
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021	<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-nr}) (a)			18,000	32,000	380	4,400,000	34,000,000	1.4E+02	NA	9,900	4,600	180,000	NA	7.2E+02	8,100	NA	NA	2.6E+03	53	NA	150,000
Water Solubility (VII)			2.40E+08	1.56E+05	73,800	2.00E+07	1.0E+09	1.75E+06	6.74E+06	1.19E+06	4.72E+05	5.74E+06	6.34E+06	7.92E+06	NA	2.60E+06	3.0E+05	1.69E+05	56,000	NA	5.26E+05
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	ID	1.5E+07	68,000	ID	13,000	1.6E+05	1.1E+05	3.6E+04	ID	NA	ID	ID	43,000	29,000	NA	61,000
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank	W-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021																			
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022																			
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	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)
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-ry}) (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-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021																			
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022																			
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	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)
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-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																			
Equipment Blank	W-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	NS	NS	NS	13	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	78 J	NS	NS
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022							<8.0	NS	NS	NS	NS	NS	NS	NS	NS	NS	<80	NS	NS
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	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)
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-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	W-R2330027-041521-KRM-028	4/15/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	<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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-1[A]	W-R2330009-080713-ZTR-007	8/7/2013																	
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-1[A]	W-R2330009-111413-ACN-013	11/14/2013																	
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-1[A]	W-R2330012-032814-ACN-009	3/28/2014																	
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<10
MW-1[A]	W-R2330012-12214-JCH-026	12/2/2014																	
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.3 J**	<5.0	<10	<10
MW-1[A] (DUP)	W-R2330012-12214-JCH-027	12/2/2014																	
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.5 J**	<5.0	<10	<10
MW-1[A]	W-R2330017-031915-ACN-021	3/19/2015																	
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-1	W-R2330009-043013-MJF-002	4/30/2013	<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**	<1.0	<1.0	**1.1 J**
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**
MW-1	W-R2330009-080713-ZTR-007	8/7/2013	<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**	<1.0	**0.10 J**	**1.3 J**
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**
MW-1	W-R2330009-111413-ACN-013	11/14/2013	<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**	<1.0	**0.12 J**	**2.5 J**
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**
MW-1	W-R2330012-032814-ACN-009	3/28/2014	<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**	**0.19 J**	**0.18 J**	**2.7 J**
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**
MW-1	W-R2330012-12214-JCH-026	12/2/2014	<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**	<1.0	<1.0	**1.2 J**
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**
MW-1 (DUP)	W-R2330012-12214-JCH-027	12/2/2014	<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**	<1.0	<1.0	**1.4 J**
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**
MW-1	W-R2330017-031915-ACN-021	3/19/2015	<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**	<1.0	<1.0	**1.3 J**
MW-1[A]	W-R2330017-111915-AEP-021	11/19/2015											**210**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330017-111915-AEP-021	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.2 J**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-042116-AFB-022	4/21/2016											**140**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-042116-AFB-022	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330021-110216-JPM-018	11/2/2016											**420**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330021-110216-JPM-018	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-042617-DMS-019	4/26/2017											**29 J**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-042617-DMS-019	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.3 J**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330022-102717-AFB-032	10/27/2017											**280**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330022-102717-AFB-032	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-042418-JPM-017	4/24/2018											**16**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.5 J**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330024-102418-RM-017	10/24/2018											**33**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330024-102418-RM-017	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.6**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-050119-SSR-018	5/1/2019											**66**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-050119-SSR-018	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.3 J**	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330025-102919-KRM-014	10/29/2019											<8.0	NS	NS	NS	NS	NS	NS
MW-1	W-R2330025-102919-KRM-014	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330026-052720-KRM-035	5/27/2020											19	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-1	W-R2330009-043013-MJF-002	4/30/2013	**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	**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	**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	**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	**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	**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	**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	**1.9 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	**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	**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	**1.8 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	**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**14,000**	NS	NS	**200**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
MW-1[A]	W-R2330027-041521-KRM-029	4/15/2021																	
MW-1	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021																	
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																	

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)													
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
MW-1[A]	W-R2330027-041521-KRM-029	4/15/2021																	
MW-1	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021																	
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	**4.2 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	**0.85 J**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-3[A]	W-R2330009-080713-ZTR-004	8/7/2013																	
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013																	
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014																	
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS
MW-3[A]	W-R2330012-12114-JCH-019	12/1/2014																	
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-3[A]	W-R2330017-031915-JCH-015	3/19/2015																	
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020											**17**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-052720-KRM-035	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330026-110620-KRM-023	11/6/2020											**29**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330026-110620-KRM-023	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330027-041521-KRM-029	4/15/2021											**29**	NS	NS	NS	NS	NS	NS
MW-1	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021											**18**	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	<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**	<1.0	<1.0	**1.1 J**
MW-3	W-R2330009-050213-MJF-009	5/2/2013	<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**	<1.0	**0.047 J**	**0.86 J**
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**
MW-3	W-R2330009-080713-ZTR-004	8/7/2013	<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**	<1.0	**0.063 J**	**4.5 J**
MW-3[A]	W-R2330009-111213-ACN-002	11/12/2013											**190**	**0.33 J**	**3.3 J**	**260**	<1.0	<1.0	**1.1 J**
MW-3	W-R2330009-111213-ACN-002	11/12/2013	<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**	<1.0	<1.0	**0.46 J**
MW-3[A]	W-R2330012-032714-ACN-007	3/27/2014											**450**	**0.22 J**	**0.76 J**	**130**	<1.0	<1.0	**0.48 J**
MW-3	W-R2330012-032714-ACN-007	3/27/2014	<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**	<1.0	<1.0	<10
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**
MW-3	W-R2330012-091514-ACN-001	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.4 J**	**0.30 J**	**3.4 J**	**370**	<1.0	<1.0	**0.35 J**
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**
MW-3	W-R2330012-12114-JCH-019	12/1/2014	<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**	<1.0	<1.0	**0.32 J**
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**
MW-3	W-R2330017-031915-JCH-015	3/19/2015	<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**	<1.0	**0.11 J**	**0.48 J**
MW-3[A]	W-R2330017-111915-JPM-018	11/19/2015											**240**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330017-111915-JPM-018	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-042216-AFB-030	4/22/2016											**85**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-042216-AFB-030	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.8 J**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330021-110416-JPM-029	11/4/2016											**48 J**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330021-110416-JPM-029	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-042817-AFB-029	4/28/2017											**430**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-042817-AFB-029	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330022-042817-AFB-030	4/28/2017											**370**	NS	NS	NS	NS	NS	NS
MW-3 (DUP)	W-R2330022-042817-AFB-030	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330022-102417-DMS-008	10/23/2017											**78**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330022-102417-DMS-008	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-042518-DMS-022	4/25/2018											**470**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**28**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330024-102618-SSR-027	10/26/2018											**37**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-102618-SSR-027	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-050619-SSR-032	5/6/2019											**1,900**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-050619-SSR-032	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330025-103119-SCD-032	10/31/2019											**17**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330025-103119-SCD-032	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-052120-KRM-027	5/21/2020											<8.0	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-1[A]	W-R2330026-052720-KRM-035	5/27/2020	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	**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	**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	**15,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-1[A]	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	**19,000**	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS
MW-1	W-R2330027-041521-KRM-029	4/15/2021	NS	NS	NS	**18,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-1[A] (DUP)	W-R2330027-041521-KRM-031	4/15/2021	NS	NS	NS	**19,000**	NS	NS	**320**	NS	NS	NS	NS	NS	NS	NS
MW-1 (DUP)	W-R2330027-041521-KRM-031	4/15/2021	NS	NS	NS	**13,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330004-090512-MJF-01	9/5/2012	**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	**1.5 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	**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	**1.9 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 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	**1.3 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	**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	**1.5 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	**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	**1.9 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	**1.5 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	**1.3 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	**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	**1.3 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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**3,100**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330024-042518-DMS-022	4/25/2018	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	**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	**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	**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	**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	**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	**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	**5,800**	NS	NS	**290**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
MW-3[A]	W-R2330027-041321-KRM-014	4/13/2021																	
MW-3	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022																	
MW-3	W-R2330027-042522-KADH-004	4/25/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																	

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)													
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
MW-3[A]	W-R2330027-041321-KRM-014	4/13/2021																	
MW-3	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022																	
MW-3	W-R2330027-042522-KADH-004	4/25/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<0.84
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<0.84
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-4[A]	W-R2330009-080713-ZTR-005	8/7/2013																	
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-4[A]	W-R2330009-111213-ACN-003	11/12/2013																	
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-4[A]	W-R2330012-032714-ACN-006	3/27/2014																	
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-4[A]	W-R2330012-12114-JCH-020	12/1/2014																	
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-4[A]	W-R2330017-031715-ACN-010	3/17/2015																	
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-3	W-R2330026-052120-KRM-027	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330026-110520-KRM-017	11/5/2020											**2,700**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330026-110520-KRM-017	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-3[A] (DUP)	W-R2330026-110520-KRM-018	11/5/2020											**6,100**	NS	NS	NS	NS	NS	NS
MW-3 (DUP)	W-R2330026-110520-KRM-018	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**48**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-041321-KRM-014	4/13/2021											**73**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022											**65**	NS	NS	NS	NS	NS	NS
MW-3	W-R2330027-042522-KADH-004	4/25/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	<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**	<1.0	<1.0	**1.1 J**
MW-4 (DUP)	W-R2330004-090512-MJF-03	9/5/2012	<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**	<1.0	<1.0	**0.85 J**
MW-4	W-R2330009-050213-MJF-010	5/2/2013	<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**	<1.0	<1.0	**0.84 J**
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**
MW-4	W-R2330009-080713-ZTR-005	8/7/2013	<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**	<1.0	**0.29 J**	**1.4 J**
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**
MW-4	W-R2330009-111213-ACN-003	11/12/2013	<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**	<1.0	**0.34 J**	**0.78 J**
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**
MW-4	W-R2330012-032714-ACN-006	3/27/2014	<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**	<1.0	<1.0	**0.37 J**
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**
MW-4	W-R2330012-12114-JCH-020	12/1/2014	<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**	<1.0	<1.0	**0.54 J**
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**
MW-4	W-R2330017-031715-ACN-010	3/17/2015	<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**	<1.0	<1.0	**0.55 J**
MW-4[A]	W-R2330017-112015-JPM-033	11/20/2015											**84**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330017-112015-JPM-033	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.6 J**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-042116-AFB-028	4/21/2016											**81**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-042116-AFB-028	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330021-110416-JPM-036	11/4/2016											**210**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330021-110416-JPM-036	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-042817-AFB-034	4/28/2017											**21 J**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-042817-AFB-034	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330022-102417-DMS-012	10/24/2017											**28**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330022-102417-DMS-012	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.6 J**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-042518-DMS-026	4/25/2018											**33**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-042518-DMS-026	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330024-102618-SSR-029	10/26/2018											**36**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330024-102618-SSR-029	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS
MW-4[A] (DUP)	W-R2330025-050319-ADH-023	5/3/2019											**82**	NS	NS	NS	NS	NS	NS
MW-4 (DUP)	W-R2330025-050319-ADH-023	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-050319-ADH-024	5/3/2019											**85**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-050319-ADH-024	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330025-102919-SCD-017	10/29/2019											**8.6 J**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330025-102919-SCD-017	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-052120-KRM-023	5/21/2020											**47**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-3	W-R2330026-052120-KRM-027	5/21/2020	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	**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	**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	**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	**13,000**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	**7,800**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330027-041321-KRM-014	4/13/2021	NS	NS	NS	**4,300**	NS	NS	**98**	NS	NS	NS	NS	NS	NS	NS
MW-3[A]	W-R2330027-042522-KADH-004	4/25/2022	NS	NS	NS	**2,900**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-3	W-R2330027-042522-KADH-004	4/25/2022	NS	NS	NS	**1,300**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330004-090512-MJF-02	9/5/2012	**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	**1.3 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	**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	**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	**1.5 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	**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	**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	**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	**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	**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	**1.8 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	**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	**1.7 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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**7,900**	NS	NS	**540**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
MW-4[A]	W-R2330027-041321-KRM-010	4/13/2021																	
MW-4	W-R2330027-041321-KRM-010	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-042622-ADP-008	4/26/2022																	
MW-4	W-R2330027-042622-ADP-008	4/26/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-5[A]	W-R2330027-041621-KRM-034	4/16/2021																	
MW-5	W-R2330027-041621-KRM-034	4/16/2021	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)													
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
MW-4[A]	W-R2330027-041321-KRM-010	4/13/2021																	
MW-4	W-R2330027-041321-KRM-010	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-042622-ADP-008	4/26/2022																	
MW-4	W-R2330027-042622-ADP-008	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	<10	**1.2 J**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.3 J**	<5.0	<5.0	<10	<5.0	<10	**1.2 J**
MW-5[A]	W-R2330009-080813-ZTR-009	8/8/2013																	
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-5[A]	W-R2330009-111213-ACN-004	11/12/2013																	
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014																	
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-5[A]	W-R2330012-12214-JCH-025	12/2/2014																	
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-5[A]	W-R2330017-031915-JCH-018	3/19/2015																	
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.79 J**	<5.0	<10	<10
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
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
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
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
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
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
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
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
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
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
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
MW-5[A]	W-R2330027-041621-KRM-034	4/16/2021																	
MW-5	W-R2330027-041621-KRM-034	4/16/2021	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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-4	W-R2330026-052120-KRM-023	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330026-110520-KRM-015	11/5/2020											**10**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330026-110520-KRM-015	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-041321-KRM-010	4/13/2021											**150**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330027-041321-KRM-010	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-042622-ADP-008	4/26/2022											**80**	NS	NS	NS	NS	NS	NS
MW-4	W-R2330027-042622-ADP-008	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	<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**	<1.0	<1.0	**1.5 J**
MW-5 (DUP)	W-R2330009-050113-MJF-005	5/1/2013	<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**	<1.0	<1.0	**1.9 J**
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**
MW-5	W-R2330009-080813-ZTR-009	8/8/2013	<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**	<1.0	**0.16 J**	**1.6 J**
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**
MW-5	W-R2330009-111213-ACN-004	11/12/2013	<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**	<1.0	**0.57 J**	**2.9 J**
MW-5[A]	W-R2330012-032814-ACN-008	3/28/2014											**1,100**	**0.50 J**	**40**	**1,300**	**0.25 J**	**0.49 J**	**3.3 J**
MW-5	W-R2330012-032814-ACN-008	3/28/2014	<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**	<1.0	<1.0	**0.61 J**
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**
MW-5	W-R2330012-12214-JCH-025	12/2/2014	<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**	<1.0	**0.026 J**	**1.7 J**
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**
MW-5	W-R2330012-031915-JCH-018	3/19/2015	<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**	<1.0	<1.0	**1.3 J**
MW-5[A]	W-R2330017-112015-JPM-031	11/20/2015											**3,100**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330017-112015-JPM-031	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-042116-JPM-024	4/21/2016											**2,800**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-042116-JPM-024	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**140**	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330021-110216-AEM-013	11/2/2016											**860**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330021-110216-AEM-013	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**30 J**	NS	NS	NS	NS	NS	NS
MW-5[A] (DUP)	W-R2330021-110216-AEM-014	11/2/2016											**400**	NS	NS	NS	NS	NS	NS
MW-5 (DUP)	W-R2330021-110216-AEM-014	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-042617-AFB-016	4/26/2017											**30 J**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-042617-AFB-016	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330022-102717-AFB-029	10/27/2017											**890**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330022-102717-AFB-029	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330024-102318-RM-009	10/23/2018											**590**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330024-102318-RM-009	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-050119-SSR-016	5/1/2019											**700**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-050119-SSR-016	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330025-102919-KRM-012	10/29/2019											**100**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330025-102919-KRM-012	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-052220-KRM-032	5/22/2020											**150**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330026-052220-KRM-032	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330026-110620-KRM-021	11/6/2020											**400**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330026-110620-KRM-021	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330027-041621-KRM-034	4/16/2021											**150**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330027-041621-KRM-034	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-4	W-R2330026-052120-KRM-023	5/21/2020	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	**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	**14,000**	NS	NS	**86**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-041321-KRM-010	4/13/2021	NS	NS	NS	**16,000**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330027-041321-KRM-010	4/13/2021	NS	NS	NS	**14,000**	NS	NS	**89**	NS	NS	NS	NS	NS	NS	NS
MW-4[A]	W-R2330027-042622-ADP-008	4/26/2022	NS	NS	NS	**6,600**	NS	NS	**810**	NS	NS	NS	NS	NS	NS	NS
MW-4	W-R2330027-042622-ADP-008	4/26/2022	NS	NS	NS	**5,600**	NS	NS	**800**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330009-050113-MJF-004	5/1/2013	**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	**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	**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	**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	**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	**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	**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	**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	**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	**1.9 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	**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	**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		**13,000**	NS	**150,000**	NS	<0.2	**7.5 J**	<5.0	<0.20	<2.0	**1.3 J**	**3.8 J**
MW-5	W-R2330017-112015-JPM-031	11/20/2015	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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**5,600**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5[A]	W-R2330027-041621-KRM-034	4/16/2021	NS	NS	NS	**7,000**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330027-041621-KRM-034	4/16/2021	NS	NS	NS	**6,700**	NS	NS	**96**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022																	
MW-5	W-R2330027-042622-ADH-011	4/26/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-6[A]	W-R2330027-041321-KRM-006	4/13/2021																	
MW-6	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022																	

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)													
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022																	
MW-5	W-R2330027-042622-ADH-011	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-6[A]	W-R2330009--080713-ZTR-002	8/7/2013																	
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-6[A]	W-R2330009-111313-ACN-011	11/13/2013																	
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.47 J**	<5.0	<5.0	<10	<5.0	<10	<10
MW-6[A]	W-R2330012-032714-ACN-004	3/27/2014																	
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-6[A]	W-R2330012-12214-JCH-023	12/2/2014																	
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-6[A]	W-R2330017-031715-ACN-012	3/17/2015																	
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
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
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
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
MW-6[A]	W-R2330027-041321-KRM-006	4/13/2021																	
MW-6	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022											**630.0**	NS	NS	NS	NS	NS	NS
MW-5	W-R2330027-042622-ADH-011	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**76.0**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	<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**	<1.0	<1.0	**1.0 J**
MW-6	W-R2330009-050213-MJF-012	5/2/2013	<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**	<1.0	<1.0	**1.6 J**
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**
MW-6	W-R2330009--080713-ZTR-002	8/7/2013	<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**	<1.0	**0.25 J**	**0.75 J**
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**
MW-6	W-R2330009-111313-ACN-011	11/13/2013	<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**	<1.0	**0.43 J**	**2.2 J**
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**
MW-6	W-R2330012-032714-ACN-004	3/27/2014	<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**	<1.0	<1.0	**0.37 J**
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**
MW-6	W-R2330012-12214-JCH-023	12/2/2014	<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**	<1.0	<1.0	**0.53 J**
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**
MW-6	W-R2330017-031715-ACN-012	3/17/2015	<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**	<1.0	<1.0	**0.42 J**
MW-6[A]	W-R2330017-111915-JPM-023	11/19/2015											**30 J**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330017-111915-JPM-023	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-042116-JPM-026	4/21/2016											**100**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-042116-JPM-026	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.5 J**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330021-110416-JPM-037	11/4/2016											**76**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330021-110416-JPM-037	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017											**83**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-102817-AFB-035	10/28/2017											**550**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-102817-AFB-035	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330022-102817-AFB-036	10/28/2017											**140**	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330022-102817-AFB-036	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-042518-DMS-028	4/25/2018											**32**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330024-102418-SSR-015	10/24/2018											**U**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-102418-SSR-015	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21**	NS	NS	NS	NS	NS	NS
MW-6[A] DUP	W-R2330024-102418-SSR-016	10/24/2018											**5.1**	NS	NS	NS	NS	NS	NS
MW-6 DUP	W-R2330024-102418-SSR-016	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.7**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-050619-ADH-029	5/6/2019											**430**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-050619-ADH-029	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.4 J**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330025-102919-SCD-013	10/29/2019											**8.9 J**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330025-102919-SCD-013	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-052220-KRM-030	5/22/2020											**54**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-052220-KRM-030	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330026-110520-KRM-013	11/5/2020											**1,400**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330026-110520-KRM-013	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**130**	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-041321-KRM-006	4/13/2021											**310**	NS	NS	NS	NS	NS	NS
MW-6	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022											**74**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-5[A]	W-R2330027-042622-ADH-011	4/26/2022	NS	NS	NS	**8,300**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-5	W-R2330027-042622-ADH-011	4/26/2022	NS	NS	NS	**5,700**	NS	NS	**79**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330004-090512-MJF-04	9/5/2012	**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	**1.5 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	**1.9 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	**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	**1.7 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	**1.7 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	**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	**1.4 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	**1.1 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 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	**1.7 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	**1.5 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		**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	**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		**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	**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	**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	**25,000**	NS	NS	**490**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	**3,600**	NS	NS	**960**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330022-042817-AFB-033	4/28/2017	NS	NS	NS	**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	**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	**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	**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	**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	**560**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-042518-DMS-028	4/25/2018	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	**U**	NS	NS	**U**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330024-102418-SSR-015	10/24/2018	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**14,000**	NS	NS	**570**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	**4,300**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-6	W-R2330027-041321-KRM-006	4/13/2021	NS	NS	NS	**240**	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS
MW-6[A]	W-R2330027-042622-SSR-007	4/26/2022	NS	NS	NS	**2,200**	NS	NS	**190**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
MW-6	W-R2330027-042622-SSR-007	4/26/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-7[A]	W-R2330027-041321-KRM-018	4/14/2021																	
MW-7	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022																	
MW-7	W-R2330027-042622-ADH-013	4/26/2022	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
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
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

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-6	W-R2330027-042622-SSR-007	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10
MW-7[A]	W-R2330009-080613-ZTR-001	8/6/2013																	
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-7[A]	W-R2330009-111313-ACN-006	11/13/2013																	
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.18 J**	<5.0	<5.0	<10	<5.0	<10	<10
MW-7[A]	W-R2330012-032614-ACN-001	3/26/2014																	
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-7[A]	W-R2330012-112614-JCH-015	11/26/2014																	
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-7[A]	W-R2330017-031715-JCH-013	3/17/2015																	
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
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
MW-7[A]	W-R2330027-041321-KRM-018	4/14/2021																	
MW-7	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022																	
MW-7	W-R2330027-042622-ADH-013	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-8[A]	W-R2330009-080713-ZTR-008	8/7/2013																	
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-8[A]	W-R2330009-111213-ACN-005	11/12/2013																	
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-6	W-R2330027-042622-SSR-007	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	<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**	<1.0	<1.0	**1.4 J**
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**
MW-7	W-R2330009-080613-ZTR-001	8/6/2013	<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**	<1.0	**0.21 J**	**1.2 J**
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**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	<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**	<1.0	**0.92 J**	**1.3 J**
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**
MW-7	W-R2330012-032614-ACN-001	3/26/2014	<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**	<1.0	<1.0	<2.0
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**
MW-7	W-R2330012-112614-JCH-015	11/26/2014	<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**	<1.0	<1.0	**0.81 J**
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**
MW-7	W-R2330017-031715-JCH-013	3/17/2015	<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**	<1.0	<1.0	**0.87 J**
MW-7[A]	W-R2330017-111615-AEP-005	11/16/2015											**69**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330017-111615-AEP-005	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**35 J**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-041916-JPM-007	4/19/2016											**6.6 J**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-041916-JPM-007	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330021-110116-AEM-007	11/1/2016											**23 J**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330021-110116-AEM-007	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-042517-DMS-013	4/25/2017											**66**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-042517-DMS-013	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330022-102717-DMS-028	10/27/2017											**17**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330022-102717-DMS-028	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.3 J**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-042318-DMS-006	4/23/2018											**30**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-042318-DMS-006	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330024-102218-JPM-005	10/22/2018											**62**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330024-102218-JPM-005	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.8**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-042919-SSR-003	4/29/2019											**67**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-042919-SSR-003	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.5 J**	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330025-102919-KRM-007	10/29/2019											**10**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330025-102919-KRM-007	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-051920-KRM-008	5/19/2020											**16**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-051920-KRM-008	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330026-110920-KRM-026	11/9/2020											**12**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330026-110920-KRM-026	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-041321-KRM-018	4/14/2021											**10**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022											**27.00**	NS	NS	NS	NS	NS	NS
MW-7	W-R2330027-042622-ADH-013	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.10**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	<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**	<1.0	<1.0	**0.56 J**
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**
MW-8	W-R2330009-080713-ZTR-008	8/7/2013	<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**	<1.0	**0.098 J**	**0.94 J**
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**
MW-8	W-R2330009-111213-ACN-005	11/12/2013	<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**	<1.0	**0.49 J**	**2.0 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												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-6	W-R2330027-042622-SSR-007	4/26/2022	NS	NS	NS	**76**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330009-050213-MJF-008	5/2/2013	**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	**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	**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	**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**
MW-7	W-R2330009-111313-ACN-006	11/13/2013	**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	**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	**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	**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	**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	**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**7,600**	NS	NS	**760**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	**8,900**	NS	NS	**660**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330027-041321-KRM-018	4/14/2021	NS	NS	NS	**8,800**	NS	NS	**690**	NS	NS	NS	NS	NS	NS	NS
MW-7[A]	W-R2330027-042622-ADH-013	4/26/2022	NS	NS	NS	**2,000**	NS	NS	**880**	NS	NS	NS	NS	NS	NS	NS
MW-7	W-R2330027-042622-ADH-013	4/26/2022	NS	NS	NS	**1,900**	NS	NS	**880**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330009-050313-MJF-013	5/3/2013	**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	**1.5 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	**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	**1.6 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	**1.8 J**	**1.5 J**	**0.0015 J**	**7,500**	<3.0	<50	**210**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																	
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0
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
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
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
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
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
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
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
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
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021																	
MW-8	W-R2330027-041421-SSR-025	4/14/2021	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
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
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
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
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
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
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
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
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
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
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
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

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014																	
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-8[A]	W-R2330017-032015-JCH-029	3/20/2015																	
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021																	
MW-8	W-R2330027-041421-SSR-025	4/14/2021	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10
MW-9[A]	W-R2330009-080813-ZTR-013	8/8/2013																	
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-9[A]	W-R2330009-111413-ACN-012	11/14/2013																	
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-9[A]	W-R2330012-032614-ACN-003	3/26/2014																	
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-9[A]	W-R2330012-12214-JCH-024	12/2/2014																	
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-9[A]	W-R2330017-031915-JCH-017	3/19/2015																	
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
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
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
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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014											**1,200**	**0.11 J**	**4.7 J**	**370**	<1.0	**2.1**	**2.7 J**
MW-8	W-R2330012-112614-JCH-014	11/26/2014	<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**	<1.0	<1.0	**0.34 J**
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**
MW-8	W-R2330017-032015-JCH-029	3/20/2015	<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**	<1.0	<1.0	**0.47 J**
MW-8[A]	W-R2330017-111615-AEP-004	11/16/2015											**540**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330017-111615-AEP-004	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-041916-JPM-008	4/19/2016											**140**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330021-041916-JPM-008	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330021-110116-AEM-008	11/1/2016											**50 J**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330021-110116-AEM-008	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.70**	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330022-102617-AFB-024	10/26/2017											**23**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330024-102318-SSR-008	10/23/2018											**60**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330024-102318-SSR-008	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.8**	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330025-103019-SCD-021	10/30/2019											**11**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330025-103019-SCD-021	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330026-110920-KRM-027	11/9/2020											**95**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330026-110920-KRM-027	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021											**130**	NS	NS	NS	NS	NS	NS
MW-8	W-R2330027-041421-SSR-025	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	<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**	<1.0	<1.0	**1.9 J**
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**
MW-9	W-R2330009-080813-ZTR-013	8/8/2013	<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**	<1.0	**0.24 J**	**0.91 J**
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**
MW-9	W-R2330009-111413-ACN-012	11/14/2013	<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**	<1.0	<1.0	**1.0 J**
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**
MW-9	W-R2330012-032614-ACN-003	3/26/2014	<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**	<1.0	<1.0	**0.70 J**
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**
MW-9	W-R2330012-12214-JCH-024	12/2/2014	<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**	<1.0	<1.0	**1.0 J**
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**
MW-9	W-R2330012-031915-JCH-017	3/19/2015	<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**	<1.0	<1.0	**0.83 J**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015											**510**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330017-112015-AFB-030	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-042116-AFB-025	4/21/2016											**110**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-042116-AFB-025	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330021-110116-AEM-012	11/2/2016											**270**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330021-110116-AEM-012	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-042617-DMS-015	4/26/2017											<50	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-042617-DMS-015	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330022-102717-DMS-030	10/27/2017											**55**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330022-102717-DMS-030	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.4 J**	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330024-042618-DMS-033	4/26/2018											**12**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-042618-DMS-033	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.9 J**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-8[A]	W-R2330012-112614-JCH-014	11/26/2014	**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	**1.3 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	**1.2 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	**1.3 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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**8,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-8[A]	W-R2330027-041421-SSR-025	4/14/2021	NS	NS	NS	**7,300**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-8	W-R2330027-041421-SSR-025	4/14/2021	NS	NS	NS	**6,600**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330009-050113-MJF-007	5/1/2013	**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	**1.4 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	**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	**1.7 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	**1.7 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	**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	**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	**1.2 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	**1.4 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	**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	**1.9 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**
MW-9[A]	W-R2330017-112015-AFB-030	11/20/2015	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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**29,000**	NS	NS	**230**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
MW-9[A]	W-R2330027-041621-SSR-035	4/16/2021																	
MW-9	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022																	
MW-9	W-R2330027-042622-SSR-012	4/26/2022	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
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
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
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
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
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
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
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
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
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
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**
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
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
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
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**

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)		
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
MW-9[A]	W-R2330027-041621-SSR-035	4/16/2021																	
MW-9	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022																	
MW-9	W-R2330027-042622-SSR-012	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	**0.86 J**	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-10[A]	W-R2330009-080813-ZTR-010	8/8/2013																	
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-10[A] (DUP)	W-R2330009-080813-ZTR-011	8/8/2013																	
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-10[A]	W-R2330009-111313-ACN-008	11/13/2013																	
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	**0.28 J**
MW-10[A] (DUP)	W-R2330009-111313-ACN-009	11/13/2013																	
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-10[A]	W-R2330012-032814-ACN-010	3/28/2014																	
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-10[A] (DUP)	W-R2330012-032814-ACN-011	3/28/2014																	
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-10[A]	W-R2330012-12214-JCH-028	12/2/2014																	
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**2.1 J**	<5.0	<10	<10
MW-10[A]	W-R2330017-031915-ACN-019	3/19/2015																	
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-10[A] (DUP)	W-R2330017-031915-ACN-020	3/19/2015																	
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.8 J**	<5.0	<10	<10
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015																	
MW-10	W-R2330017-111915-AEP-022	11/19/2015	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018											**130**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330024-102318-RM-012	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-050119-SSR-015	5/1/2019											**37**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-050119-SSR-015	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330025-102919-KRM-009	10/29/2019											<8.0	NS	NS	NS	NS	NS	NS
MW-9	W-R2330025-102919-KRM-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-052220-KRM-034	5/22/2020											<8.0	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-052220-KRM-034	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330026-110620-KRM-024	11/6/2020											**140**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330026-110620-KRM-024	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-041621-SSR-035	4/16/2021											**180**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022											**910.00**	NS	NS	NS	NS	NS	NS
MW-9	W-R2330027-042622-SSR-012	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	<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**	<1.0	<1.0	**1.8 J**
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**
MW-10	W-R2330009-080813-ZTR-010	8/8/2013	<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**	<1.0	**0.22 J**	**2.0 J**
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**
MW-10 (DUP)	W-R2330009-080813-ZTR-011	8/8/2013	<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**	<1.0	**0.27 J**	**2.0 J**
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**
MW-10	W-R2330009-111313-ACN-008	11/13/2013	<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**	<1.0	**1.4 J**	**2.7 J**
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**
MW-10 (DUP)	W-R2330009-111313-ACN-009	11/13/2013	<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**	<1.0	**1.7 J**	**2.6 J**
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**
MW-10	W-R2330012-032814-ACN-010	3/28/2014	<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**	<1.0	<1.0	**0.79 J**
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**
MW-10 (DUP)	W-R2330012-032814-ACN-011	3/28/2014	<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**	<1.0	<1.0	<10
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**
MW-10	W-R2330012-12214-JCH-028	12/2/2014	<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**	<1.0	<1.0	**2.3 J**
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**
MW-10	W-R2330017-031915-ACN-019	3/19/2015	<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**	<1.0	<1.0	**2.2 J**
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**
MW-10 (DUP)	W-R2330012-031915-ACN-020	3/19/2015	<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**	<1.0	<1.0	**2.6 J**
MW-10[A]	W-R2330017-111915-AEP-022	11/19/2015											**31 J**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330017-111915-AEP-022	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-042116-JPM-023	4/21/2016											**190**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330021-042116-JPM-023	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330021-110216-JPM-019	11/2/2016											**32 J**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330021-110216-JPM-019	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-042617-DMS-017	4/26/2017											**110**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-042617-DMS-017	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.9 J**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330022-102717-DMS-031	10/27/2017											**37**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330022-102717-DMS-031	10/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.4 J**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-9[A]	W-R2330024-102318-RM-012	10/23/2018	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	**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	**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	**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	**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	**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	**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	**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	**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	**23,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	**32,000**	NS	NS	**360**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330027-041621-SSR-035	4/16/2021	NS	NS	NS	**28,000**	NS	NS	**330**	NS	NS	NS	NS	NS	NS	NS
MW-9[A]	W-R2330027-042622-SSR-012	4/26/2022	NS	NS	NS	**65,000**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
MW-9	W-R2330027-042622-SSR-012	4/26/2022	NS	NS	NS	**26,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330009-050113-MJF-003	5/1/2013	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**17,000**	NS	NS	**470**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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**
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**
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
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
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
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
MW-10[A]	W-R2330027-041521-SSR-027	4/15/2021																	
MW-10	W-R2330027-041521-SSR-027	4/15/2021	<0.52	<0.32	<0.35	<0.52	**7**	**2.0**	<0.49	<0.49	**19**	<0.68	<0.68	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022																	
MW-10	W-R2330027-042622-ADP-010	4/26/2022	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	<25	<1.0	<1.0	<50	<50	<1.0	<1.0	<5.0	<1.0	<5.0	NS	<1.0	<10	<5.0	<5.0	<1.0	<5.0
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
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
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
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
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
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
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
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
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
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
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
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
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

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018																	
MW-10	W-R2330024-042418-JPM-017	4/24/2018	<1.0	<1.0	<3.0	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	<0.090	<0.32	<.74	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	<0.35	<0.45	<0.81	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	<0.35	<0.45	<0.81	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	<0.35	<0.45	<0.81	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	<0.35	<0.45	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-041521-SSR-027	4/15/2021																	
MW-10	W-R2330027-041521-SSR-027	4/15/2021	<0.35	<0.45	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022																	
MW-10	W-R2330027-042622-ADP-010	4/26/2022	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	<1.0	<1.0	<3.0	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013																	
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-11[A]	W-R2330009-111213-ACN-001	11/12/2013																	
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-11[A]	W-R2330012-032614-ACN-002	3/26/2014																	
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS
MW-11[A]	W-R2330012-12114-JCH-017	12/1/2014																	
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-11[A]	W-R2330017-031715-ACN-009	3/17/2015																	
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018											**75**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-042418-JPM-017	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330024-102418-SSR-018	10/24/2018											**29**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330024-102418-SSR-018	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.3**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-050119-SSR-017	5/1/2019											**150**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-050119-SSR-017	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.0 J**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330025-102919-KRM-018	10/29/2019											**18**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330025-102919-KRM-018	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.3**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-052720-KRM-039	5/27/2020											**27**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-052720-KRM-039	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330026-110620-KRM-022	11/6/2020											**94**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330026-110620-KRM-022	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-041521-SSR-027	4/15/2021											**170**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330027-041521-SSR-027	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022											**1200**	NS	NS	NS	NS	NS	NS
MW-10	W-R2330027-042622-ADP-010	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	<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**	<1.0	<1.0	**0.69 J**
MW-11[A]	W-R2330009-080713-ZTR-006	8/7/2013											**22 J**	**0.079 J**	<5.0	**57 J**	<1.0	<1.0	**0.49 J**
MW-11	W-R2330009-080713-ZTR-006	8/7/2013	<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**	<1.0	<1.0	**0.53 J**
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**
MW-11	W-R2330009-111213-ACN-001	11/12/2013	<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**	<1.0	<1.0	**0.40 J**
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**
MW-11	W-R2330012-032614-ACN-002	3/26/2014	<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**	<1.0	<1.0	<10
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
MW-11	W-R2330012-091514-ACN-003	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.7 J**	**0.15 J**	**1.1 J**	**75 J**	<1.0	<1.0	<10
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**
MW-11	W-R2330012-12114-JCH-017	12/1/2014	<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**	<1.0	**0.052 J**	<10
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**
MW-11	W-R2330017-031715-ACN-009	3/17/2015	<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**	<1.0	**0.29 J**	**0.16 J**
MW-11[A]	W-R2330017-111915-AEP-019	11/19/2015											**17 J**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330017-111915-AEP-019	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.7 J**	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330021-042116-JPM-021	4/21/2016											**390**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330021-042116-JPM-021	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS
MW-11[A]	W-r2330021-110116-JPM-010	6/26/2201											**350**	NS	NS	NS	NS	NS	NS
MW-11	W-r2330021-110116-JPM-010	6/26/2201	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-042617-DMS-018	4/26/2017											**93**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330022-102717-AFB-034	10/28/2017											**69**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.6 J**	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-042618-DMS-032	4/26/2018											**20**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330024-102418-RM-014	10/24/2018											**1,500**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-10[A]	W-R2330024-042418-JPM-017	4/24/2018	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**19,000**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-041521-SSR-027	4/15/2021	NS	NS	NS	**22,000**	NS	NS	**600**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330027-041521-SSR-027	4/15/2021	NS	NS	NS	**21,000**	NS	NS	**560**	NS	NS	NS	NS	NS	NS	NS
MW-10[A]	W-R2330027-042622-ADP-010	4/26/2022	NS	NS	NS	**31,000**	NS	NS	**620**	NS	NS	NS	NS	NS	NS	NS
MW-10	W-R2330027-042622-ADP-010	4/26/2022	NS	NS	NS	**18,000**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330009-043013-MJF-001	4/30/2013	**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	**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	**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	**1.2 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	**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	**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	**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	**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	**1.1 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	**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	**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	**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	**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		**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	**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		**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	**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	**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	**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	**350**	NS	NS	**95**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-042617-DMS-018	4/26/2017	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	**310**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330022-102717-AFB-034	10/28/2017	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	**150**	NS	NS	**85**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-042618-DMS-032	4/26/2018	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	**2000**	NS	NS	**350**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330024-102418-RM-014	10/24/2018	NS	NS	NS	**31**	NS	NS	**83**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-11[A]	W-R2330027-041521-KRM-032	4/15/2021																	
MW-11	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022																	
MW-11	W-R2330027-042622-ADP-017	4/26/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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)		
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-11[A]	W-R2330027-041521-KRM-032	4/15/2021																	
MW-11	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022																	
MW-11	W-R2330027-042622-ADP-017	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-12[A]	W-R2330009-080713-ZTR-003	8/7/2013																	
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-12[A]	W-R2330009-111313-ACN-007	11/13/2013																	
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	**0.24 J**	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-12[A]	W-R2330012-032714-ACN-005	3/27/2014																	
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-12[A]	W-R2330012-12114-JCH-021	12/1/2014																	
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-12[A]	W-R2330017-031715-ACN-011	3/17/2015																	
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019											**660**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-050619-ADH-030	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330025-110119-SCD-041	11/1/2019											**23**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-052120-KRM-028	5/21/2020											**60**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330026-110620-KRM-020	11/6/2020											**12**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-110620-KRM-020	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-041521-KRM-032	4/15/2021											**14**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022											**42**	NS	NS	NS	NS	NS	NS
MW-11	W-R2330027-042622-ADP-017	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	<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**	<1.0	<1.0	**1.9 J**
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**
MW-12	W-R2330009-080713-ZTR-003	8/7/2013	<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**	<1.0	**0.30 J**	**0.73 J**
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**
MW-12	W-R2330009-111313-ACN-007	11/13/2013	<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**	<1.0	**0.68 J**	**0.99 J**
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**
MW-12	W-R2330012-032714-ACN-005	3/27/2014	<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**	<1.0	<1.0	**0.43 J**
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**
MW-12	W-R2330012-12114-JCH-021	12/1/2014	<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**	<1.0	<1.0	**0.55 J**
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**
MW-12	W-R2330017-031715-ACN-011	3/17/2015	<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**	<1.0	<1.0	**0.58 J**
MW-12[A]	W-R2330017-112015-AFB-032	11/20/2015											**340**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-112015-AFB-032	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330017-112015-AFB-DUP2	11/20/2015											**380**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330017-112015-AFB-DUP2	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-042116-AFB-027	4/21/2016											**60**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-042116-AFB-027	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330021-110416-JPM-035	11/4/2016											**150**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330021-110416-JPM-035	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**27 J**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-042817-AFB-032	4/28/2017											**36 J**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-042817-AFB-032	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330022-102417-DMS-010	10/24/2017											**530**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330022-102417-DMS-010	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.8 J**	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330022-102417-DMS-011	10/24/2017											**410**	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330022-102417-DMS-011	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.7 J**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-042518-DMS-020	4/25/2018											**21**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-042518-DMS-020	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330024-102618-SSR-026	10/26/2018											**210**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330025-050219-SSR-020	5/2/2019											**610**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-050219-SSR-020	5/2/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-11[A]	W-R2330025-050619-ADH-030	5/6/2019	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	<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	**1200**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330025-110119-SCD-041	11/1/2019	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	**500**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-052120-KRM-028	5/21/2020	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	**2000**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330026-110620-KRM-020	11/6/2020	NS	NS	NS	**1500**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	**1400**	NS	NS	**99**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330027-041521-KRM-032	4/15/2021	NS	NS	NS	**1300**	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS
MW-11[A]	W-R2330027-042622-ADP-017	4/26/2022	NS	NS	NS	**4000**	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS
MW-11	W-R2330027-042622-ADP-017	4/26/2022	NS	NS	NS	**75**	NS	NS	**48**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330009-050213-MJF-011	5/2/2013	**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	**1.4 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	**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	**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	**1.9 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	**1.9 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	**1.5 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	**1.3 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	**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	**1.9 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	**1.4 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		**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**15,000**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330024-102618-SSR-026	10/26/2018	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	**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	**10,000**	NS	NS	**700**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-12[A]	W-R2330027-041321-KRM-008	4/13/2021																	
MW-12	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022																	
MW-12	W-R2330027-042622-SSR-009	4/26/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																	

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)
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-12[A]	W-R2330027-041321-KRM-008	4/13/2021																	
MW-12	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022																	
MW-12	W-R2330027-042622-SSR-009	4/26/2022	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
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
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
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
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
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
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
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014																	
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	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	<10	NS
MW-17[A]	W-R2330012-112414-MCW-004	11/24/2014																	
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-17[A]	W-R2330017-031615-ACN-007	3/16/2015																	
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019											**16**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330025-102919-SCD-015	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS
MW-12[A] (DUP)	W-R2330025-102919-SCD-016	10/29/2019											**22**	NS	NS	NS	NS	NS	NS
MW-12 (DUP)	W-R2330025-102919-SCD-016	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-052020-KRM-024	5/20/2020											**38**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330026-052020-KRM-024	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330026-110520-KRM-014	11/5/2020											**400**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330026-110520-KRM-014	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-041321-KRM-008	4/13/2021											**83**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022											**220**	NS	NS	NS	NS	NS	NS
MW-12	W-R2330027-042622-SSR-009	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019											**2,000**	NS	NS	NS	NS	NS	NS
MW-13	W-R2330025-103019-SCD-027	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330025-102919-SCD-010	10/29/2019											**15**	NS	NS	NS	NS	NS	NS
MW-14	W-R2330025-102919-SCD-010	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-14 (DUP-1)	W-R2330026-052020-KRM-020	5/20/2020											**28**	NS	NS	NS	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	**8.7**	NS	NS	NS	NS	NS	NS
MW-14[A]	W-R2330026-052020-KRM-018	5/20/2020											**250**	NS	NS	NS	NS	NS	NS
MW-14	W-R2330026-052020-KRM-018	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330025-102919-SCD-011	10/29/2019											**21**	NS	NS	NS	NS	NS	NS
MW-15	W-R2330025-102919-SCD-011	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-15[A]	W-R2330026-052020-KRM-022	5/20/2020											<8.0	NS	NS	NS	NS	NS	NS
MW-15	W-R2330026-052020-KRM-022	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-16[A]	W-R2330025-103019-SCD-025	10/30/2019											**63**	NS	NS	NS	NS	NS	NS
MW-16	W-R2330025-103019-SCD-025	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.7**	NS	NS	NS	NS	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**
MW-17	W-R2330012-052014-ACN-029	5/20/2014	<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**	<1.0	<1.0	<10
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**
MW-17	W-R2330012-091514-ACN-004	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**21 J**	**0.093 J**	**5.1**	**150**	<1.0	<1.0	<10
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**
MW-17 (DUP)	W-R2330012-091514-ACN-005	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	**0.042 J**	**5.3**	**140**	<1.0	<1.0	**0.50 J**
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**
MW-17	W-R2330012-112414-MCW-004	11/24/2014	<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**	<1.0	<1.0	<10
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**
MW-17	W-R2330017-031615-ACN-007	3/16/2015	<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**	<1.0	**0.050 J**	**0.14 J**
MW-17[A]	W-R2330017-111715-AFB-009	11/17/2015											**990**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330017-111715-AFB-009	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-041916-AEP-012	4/19/2016											**310**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-041916-AEP-012	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.4 J**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330021-110116-AEM-009	11/1/2016											**140**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330021-110116-AEM-009	11/1/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-042517-AFB-011	4/25/2017											**1,300**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-12[A]	W-R2330025-102919-SCD-015	10/29/2019	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	**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	**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	**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	**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	**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	**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	**13,000**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	**10,000**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330027-041321-KRM-008	4/13/2021	NS	NS	NS	**9,600**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-12[A]	W-R2330027-042622-SSR-009	4/26/2022	NS	NS	NS	**1,100**	NS	NS	**790**	NS	NS	NS	NS	NS	NS	NS
MW-12	W-R2330027-042622-SSR-009	4/26/2022	NS	NS	NS	**4,000**	NS	NS	**530**	NS	NS	NS	NS	NS	NS	NS
MW-13[A]	W-R2330025-103019-SCD-027	10/30/2019	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**18,000**	NS	NS	**460**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330012-052014-ACN-029	5/20/2014	**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	**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	**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	**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	**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	**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	**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	**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	**1.4 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	**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		**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	**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		**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	**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	**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	**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	**5,500**	NS	NS	**420**	<0.2	**3.0 J**	<5.0	<0.20	<2.0	**1.8 J**	**8.2 J**

Table 3
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)															
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
MW-17[A]	W-R2330027-041421-SSR-023	4/14/2021																	
MW-17	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022																	
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	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
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
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
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
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
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
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
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
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
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
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
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

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)													
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
MW-17[A]	W-R2330027-041421-SSR-023	4/14/2021																	
MW-17	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022																	
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014																	
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015																	
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<1.0	**0.47 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
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
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
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
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
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
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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-17	W-R2330022-042517-AFB-011	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**17 J**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330022-102617-AFB-023	10/26/2017											**860**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330022-102617-AFB-023	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-042418-DMS-018	4/24/2018											**400**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-042418-DMS-018	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330024-102218-SSR-004	10/22/2018											**500**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330024-102218-SSR-004	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-050119-SSR-013	5/1/2019											**200**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-050119-SSR-013	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330025-103019-KRM-022	10/30/2019											**780**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330025-103019-KRM-022	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-051920-KRM-010	5/19/2020											**33.0**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-051920-KRM-010	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330026-110920-KRM-028	11/9/2020											**42**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330026-110920-KRM-028	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-041421-SSR-023	4/14/2021											**85**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022											**1,900.0**	NS	NS	NS	NS	NS	NS
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.0	NS	NS	NS	NS	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**
MW-18	W-R2330012-052014-ACN-026	5/20/2014	<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**	**0.097 J**	**0.16 J**	**0.30 J**
MW-18[A]	W-R2330012-112414-ACN-001	11/24/2014											**25,000**	**1.0 J**	**46**	**730**	**1.2**	**1.4**	**48**
MW-18	W-R2330012-112414-ACN-001	11/24/2014	<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**	<1.0	**0.088 J**	<10
MW-18[A]	W-R2330017-031615-JCH-003	3/16/2015											**28,000**	**1.3 J**	**51**	**740**	**0.77 J**	**1.4**	**35**
MW-18	W-R2330017-031615-JCH-003	3/16/2015	<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**	<1.0	**0.041 J**	**0.15 J**
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015											**2,200**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-111715-JPM-007	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22 J**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-041916-AEP-009	4/19/2016											**2,100**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-041916-AEP-009	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29 J**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330021-110316-AEM-025	11/3/2016											**96**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330021-110316-AEM-025	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-042517-DMS-008	4/25/2017											**2,300**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-042517-DMS-008	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330022-102517-AFB-018	10/25/2017											**5,100**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330022-102517-AFB-018	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-042518-JPM-027	4/25/2018											**7,500**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-042518-JPM-027	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**64**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330024-102518-RM-020	10/25/2018											**580**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330024-102518-RM-020	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-043019-SSR-007	4/30/2019											**1,300**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-043019-SSR-007	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330025-103019-KRM-023	10/30/2019											**540**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330025-103019-KRM-023	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-17	W-R2330022-042517-AFB-011	4/25/2017	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**2,600**	NS	NS	**310**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	**2,500**	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330027-041421-SSR-023	4/14/2021	NS	NS	NS	**2,100**	NS	NS	**340**	NS	NS	NS	NS	NS	NS	NS
MW-17[A]	W-R2330027-0426221-SSR-015	4/26/2022	NS	NS	NS	**8,600**	NS	NS	**470**	NS	NS	NS	NS	NS	NS	NS
MW-17	W-R2330027-0426221-SSR-015	4/26/2022	NS	NS	NS	**2,800**	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330012-052014-ACN-026	5/20/2014	**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	**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	**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	**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	**25**	**60**		**60,000**	**45**	<50	**2700**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330017-031615-JCH-003	3/16/2015	**0.97 J**	**1.5 J**	<5.0	**2,800**	<3.0	<50	**180**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330017-111715-JPM-007	11/17/2015	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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**2,000**	NS	NS	**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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
MW-18[A]	W-R2330027-041321-SSR-009	4/13/2021																	
MW-18	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022																	
MW-18	W-R2330027-042622-ADP-014	4/26/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-19[A]	W-R2330027-041321-SSR-011	4/13/2021																	
MW-19	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022																	
MW-19	W-R2330027-042622-SSR-030	4/26/2022	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																	

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)
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
MW-18[A]	W-R2330027-041321-SSR-009	4/13/2021																	
MW-18	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022																	
MW-18	W-R2330027-042622-ADP-014	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-19[A]	W-R2330012-112414-ACN-002	11/24/2014																	
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-19[A]	W-R2330017-031615-JCH-004	3/16/2015																	
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
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
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
MW-19[A]	W-R2330027-041321-SSR-011	4/13/2021																	
MW-19	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022																	
MW-19	W-R2330027-042622-SSR-030	4/26/2022	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																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020											**2,700**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-052220-SSR-031	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**58**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330026-110920-KRM-029	11/9/2020											**7,000**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330026-110920-KRM-029	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-041321-SSR-009	4/13/2021											**260**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022											**1,500**	NS	NS	NS	NS	NS	NS
MW-18	W-R2330027-042622-ADP-014	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	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**
MW-19	W-R2330012-052014-ACN-027	5/20/2014	<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**	<1.0	<1.0	**0.53 J**
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**
MW-19	W-R2330012-112414-ACN-002	11/24/2014	<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**	<1.0	**0.054 J**	**0.30 J**
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**
MW-19	W-R2330017-031615-JCH-004	3/16/2015	<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**	<1.0	<1.0	**0.3 J**
MW-19[A]	W-R2330017-111715-AFB-008	11/17/2015											**4,100**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330017-111715-AFB-008	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**370**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-041916-JPM-010	4/19/2016											**1,300**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-041916-JPM-010	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25 J**	NS	NS	NS	NS	NS	NS
MW-19[A]	DUP 1	4/19/2016											**1,300**	NS	NS	NS	NS	NS	NS
MW-19	DUP 1	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330021-110316-AEM-027	11/3/2016											**190**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330021-110316-AEM-027	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-042517-AFB-009	4/25/2017											**820**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-042517-AFB-009	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330022-102517-DMS-019	10/25/2017											**320**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330022-102517-DMS-019	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-042518-JPM-029	4/25/2018											**740**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-042518-JPM-029	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**61**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330024-102518-RM-021	10/25/2018											**1,600**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330024-102518-RM-021	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-043019-SSR-008	4/30/2019											**1,200**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-043019-SSR-008	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**22**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330025-103019-KRM-024	10/30/2019											**690**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330025-103019-KRM-024	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-052020-SSR-033	5/22/2020											**2,700**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-052020-SSR-033	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**94**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330026-110920-KRM-030	11/9/2020											**280**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330026-110920-KRM-030	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-041321-SSR-011	4/13/2021											**1,200**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022											**1,900**	NS	NS	NS	NS	NS	NS
MW-19	W-R2330027-042622-SSR-030	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	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**

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												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-18[A]	W-R2330026-052220-SSR-031	5/22/2020	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	**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	**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	**3,900**	NS	NS	**270**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	**1,900**	NS	NS	**300**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330027-041321-SSR-009	4/13/2021	NS	NS	NS	**1,100**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-18[A]	W-R2330027-042622-ADP-014	4/26/2022	NS	NS	NS	**9,200**	NS	NS	**550**	NS	NS	NS	NS	NS	NS	NS
MW-18	W-R2330027-042622-ADP-014	4/26/2022	NS	NS	NS	**370**	NS	NS	**220**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330012-052014-ACN-027	5/20/2014	**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	**1.1 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	**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	**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	**1.9 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	**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		**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**2,800**	NS	NS	**430**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	**8,300**	NS	NS	**490**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330027-041321-SSR-011	4/13/2021	NS	NS	NS	**3,500**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-19[A]	W-R2330027-042622-SSR-030	4/26/2022	NS	NS	NS	**8,900**	NS	NS	**620**	NS	NS	NS	NS	NS	NS	NS
MW-19	W-R2330027-042622-SSR-030	4/26/2022	NS	NS	NS	**4,700**	NS	NS	**580**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330012-052014-ACN-028	5/20/2014	**1.6 J**	**5.1**		**9,600**	**2.7 J**	<50	**280**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-20[A]	W-R2330027-041321-SSR-013	4/13/2021																	
MW-20	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022																	
MW-20	W-R2330027-042622-SSR-029	4/26/2022	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
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
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

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014																	
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-20[A]	W-R2330017-031615-ACN-005	3/16/2015																	
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-20[A] (DUP)	W-R2330017-031615-ACN-006	3/16/2015																	
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
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
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
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
MW-20[A]	W-R2330027-041321-SSR-013	4/13/2021																	
MW-20	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022																	
MW-20	W-R2330027-042622-SSR-029	4/26/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-21[A]	W-R2330012-112514-ACN-006	11/25/2014																	
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015																	
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-20	W-R2330012-052014-ACN-028	5/20/2014	<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**	<1.0	<1.0	**0.39 J**
MW-20[A]	W-R2330012-112414-ACN-003	11/24/2014											**330**	<2.0	**8.8**	**290**	<1.0	<1.0	**0.90 J**
MW-20	W-R2330012-112414-ACN-003	11/24/2014	<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**	<1.0	<1.0	**0.39 J**
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**
MW-20	W-R2330017-031615-ACN-005	3/16/2015	<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**	<1.0	<1.0	**0.36 J**
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**
MW-20 (DUP)	W-R2330017-031615-ACN-006	3/16/2015	<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**	<1.0	<1.0	**0.28 J**
MW-20[A]	W-R2330017-111715-JPM-010	11/17/2015											**2,600**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330017-111715-JPM-010	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**93**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-041916-JPM-011	4/19/2016											**46 J**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-041916-JPM-011	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330021-110316-JPM-026	11/3/2016											**120**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-110316-JPM-026	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-042517-DMS-010	4/25/2017											**200**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-042517-DMS-010	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
MW-20[A] (DUP)	W-R2330022-042517-DMS-012	4/25/2017											**200**	NS	NS	NS	NS	NS	NS
MW-20 (DUP)	W-R2330022-042517-DMS-012	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330022-102617-AFB-022	10/26/2017											**960**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330022-102617-AFB-022	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-042518-JPM-030	4/25/2018											**680**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-042518-JPM-030	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**45**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330024-102518-RM-022	10/25/2018											**280**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330024-102518-RM-022	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-043019-SSR-009	4/30/2019											**1,700**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-043019-SSR-009	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330025-103019-KRM-026	10/30/2019											**250**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330025-103019-KRM-026	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-051920-JPM-013	5/19/2020											**650**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-051920-JPM-013	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330026-111020-SSR-032	11/10/2020											**1,200**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330026-111020-SSR-032	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS	NS	NS	NS
MW-20[A (DUP)]	W-R2330026-111020-SSR-033	11/10/2020											**1,200**	NS	NS	NS	NS	NS	NS
MW-20 (DUP)	W-R2330026-111020-SSR-033	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-041321-SSR-013	4/13/2021											**3,000**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**36**	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022											**2,600**	NS	NS	NS	NS	NS	NS
MW-20	W-R2330027-042622-SSR-029	4/26/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	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**
MW-21	W-R2330012-051914-ACN-021	5/19/2014	<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**	<1.0	<1.0	<10
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**
MW-21	W-R2330012-112514-ACN-006	11/25/2014	<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**	<1.0	**0.061 J**	**0.22 J**
MW-21[A]	W-R2330017-032015-JCH-023	3/20/2015											**3,000**	**0.23 J**	**2.2 J**	**73 J**	<1.0	**0.21 J**	**5.1 J**
MW-21	W-R2330017-032015-JCH-023	3/20/2015	<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**	<1.0	**0.078 J**	**0.14 J**

Table 3
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-20	W-R2330012-052014-ACN-028	5/20/2014	**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	**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	**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	**1.5 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	**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	**1.5 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	**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		**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	**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		**3,500**	NS	NS	**140**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330021-041916-JPM-011	4/19/2016	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**4,900**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	**14,000**	NS	NS	**400**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330027-041321-SSR-013	4/13/2021	NS	NS	NS	**6,700**	NS	NS	**240**	NS	NS	NS	NS	NS	NS	NS
MW-20[A]	W-R2330027-042622-SSR-029	4/26/2022	NS	NS	NS	**12,000**	NS	NS	**410**	NS	NS	NS	NS	NS	NS	NS
MW-20	W-R2330027-042622-SSR-029	4/26/2022	NS	NS	NS	**4,200**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330012-051914-ACN-021	5/19/2014	**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	**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	**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	**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	**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	**0.89 J**	**0.41 J**	<5.0	**20 J**	<3.0	<50	**25 J**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
MW-21[A]	W-R2330027-041421-KRM-024	4/14/2021																	
MW-21	W-R2330027-041421-KRM-024	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	4/27/2022																	
MW-21 (DUP)	DUP 1	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022																	
MW-21	W-R2330027-042722-SSR-024	4/27/2022	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
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
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
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
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
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
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
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
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																	

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)
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
MW-21[A]	W-R2330027-041421-KRM-024	4/14/2021																	
MW-21	W-R2330027-041421-KRM-024	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	4/27/2022																	
MW-21 (DUP)	DUP 1	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022																	
MW-21	W-R2330027-042722-SSR-024	4/27/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**1.5 J**	<10	<10
MW-22[A]	W-R2330012-112514-ACN-007	11/25/2014																	
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<10
MW-22[A] (DUP)	W-R2330012-112514-ACN-008	11/25/2014																	
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.7 J**	<5.0	<10	<10
MW-22[A]	W-R2330017-032015-JCH-027	3/20/2015																	
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**1.0 J**	<5.0	<10	<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
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
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
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
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015											**34 J**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-111815-JPM-013	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.2 J**	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	11/18/2015											**27 J**	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.7 J**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-042016-JPM-015	4/20/2016											**190**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330012-042016-JPM-015	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330021-110316-AEM-021	11/3/2016											**16 J**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330021-110316-AEM-021	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.1 J**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-042717-DMS-021	4/27/2017											**120**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-042717-DMS-021	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.8 J**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330022-102517-DMS-015	10/25/2017											**140**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.9 J**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330024-042418-JPM-013	4/24/2018											**270**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330025-110119-SCD-039	11/1/2019											<8.0	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-052020-SSR-017	5/20/2020											**130**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330026-110420-SSR-007	11/4/2020											**550**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-110420-SSR-007	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-041421-KRM-024	4/14/2021											**84**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330027-041421-KRM-024	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	4/27/2022											16000	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022											**18000**	NS	NS	NS	NS	NS	NS
MW-21	W-R2330027-042722-SSR-024	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**46**	NS	NS	NS	NS	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**
MW-22	W-R2330012-051914-ACN-022	5/19/2014	<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**	<1.0	<1.0	<10
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**
MW-22	W-R2330012-112514-ACN-007	11/25/2014	<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**	<1.0	<1.0	**0.70 J**
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**
MW-22 (DUP)	W-R2330012-112514-ACN-008	11/25/2014	<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**	<1.0	<1.0	**0.61 J**
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**
MW-22	W-R2330017-032015-JCH-027	3/20/2015	<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**	<1.0	<1.0	**0.54 J**
MW-22[A]	W-R2330017-111815-JPM-014	11/18/2015											**95**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330017-111815-JPM-014	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.0 J**	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-042016-JPM-019	4/20/2016											**37 J**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-042016-JPM-019	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**41 J**	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330021-110216-JPM-017	11/2/2016											**58**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330021-110216-JPM-017	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017											**17 J**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330022-042717-DMS-023	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-102517-AFB-014	10/25/2017											**41**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-21[A]	W-R2330012-111815-JPM-013	11/18/2015	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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**200**	NS	NS	**46**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330022-102517-DMS-015	10/25/2017	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	**670**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330024-042418-JPM-013	4/24/2018	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	**93**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330025-110119-SCD-039	11/1/2019	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	**190**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-052020-SSR-017	5/20/2020	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	**870**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330026-110420-SSR-007	11/4/2020	NS	NS	NS	**330**	NS	NS	**290**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-041421-KRM-024	4/14/2021	NS	NS	NS	**370**	NS	NS	**210**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330027-041421-KRM-024	4/14/2021	NS	NS	NS	**320**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-21[A] (DUP)	DUP 1	4/27/2022	NS	NS	NS	**19,000**	NS	NS	**1200**	NS	NS	NS	NS	NS	NS	NS
MW-21 (DUP)	DUP 1	4/27/2022	NS	NS	NS	**83**	NS	NS	**60**	NS	NS	NS	NS	NS	NS	NS
MW-21[A]	W-R2330027-042722-SSR-024	4/27/2022	NS	NS	NS	**21,000**	NS	NS	**1000**	NS	NS	NS	NS	NS	NS	NS
MW-21	W-R2330027-042722-SSR-024	4/27/2022	NS	NS	NS	**82**	NS	NS	**53**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330012-051914-ACN-022	5/19/2014	**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	**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	**1.9 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	**1.7 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	**1.7 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	**1.7 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	**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	**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		**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	**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		**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	**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	**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	**11,000**	NS	NS	**91**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330022-042717-DMS-023	4/27/2017	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	**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	**12,000**	NS	NS	**72**	<0.2	**4.4 J**	<5.0	<0.20	<2.0	**1.2 J**	**6.8 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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
MW-22[A]	W-R2330027-041421-KRM-026	4/14/2021																	
MW-22	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022																	
MW-22	W-R2330027-042722-SSR-023	4/27/2022	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
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
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
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
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
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
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
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
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
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
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
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
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
MW-23[A]	W-R2330027-041421-SSR-021	4/14/2021																	
MW-23	W-R2330027-041421-SSR-021	4/14/2021	<0.52	<0.32	<0.35	<0.52	<6.2	**1.5**	<0.49	<0.49	**43**	<0.68	<0.83	<0.46	<0.63	<0.40	<0.68	<0.34	<0.35

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)													
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
MW-22[A]	W-R2330027-041421-KRM-026	4/14/2021																	
MW-22	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022																	
MW-22	W-R2330027-042722-SSR-023	4/27/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-23[A] (DUP)	W-R2330012-051914-ACN-024	5/19/2014																	
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10
MW-23[A]	W-R2330012-112514-ACN-009	11/25/2014																	
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015																	
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<1.0	<1.0	<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
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015																	
MW-23	W-R2330017-111815-JPM-016	11/18/2015	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<0.35	<0.45	<0.81	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	<0.35	<0.45	<0.81	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	<0.35	<0.45	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330027-041421-SSR-021	4/14/2021																	
MW-23	W-R2330027-041421-SSR-021	4/14/2021	<0.35	<0.45	<0.81	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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-22	W-R2330022-102517-AFB-014	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8 J**	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330024-042418-JPM-015	4/24/2018											**18**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330024-042418-JPM-015	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330025-110119-KRM-036	11/1/2019											**31**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330025-110119-KRM-036	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-22[A] (DUP)	W-R2330025-110119-KRM-038	11/1/2019											**21**	NS	NS	NS	NS	NS	NS
MW-22 (DUP)	W-R2330025-110119-KRM-038	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-052020-SSR-019	5/20/2020											**340**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-052020-SSR-019	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330026-110420-SSR-008	11/4/2020											**330**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330026-110420-SSR-008	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-041421-KRM-026	4/14/2021											**54**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022											**730**	NS	NS	NS	NS	NS	NS
MW-22	W-R2330027-042722-SSR-023	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	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**
MW-23	W-R2330012-051914-ACN-023	5/19/2014	<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**	<1.0	<1.0	**0.76 J**
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**
MW-23 (DUP)	W-R2330012-051914-ACN-024	5/19/2014	<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**	<1.0	<1.0	**0.70 J**
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**
MW-23	W-R2330012-112514-ACN-009	11/25/2014	<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**	<1.0	**0.037 J**	**1.3 J**
MW-23[A]	W-R2330017-032015-ACN-028	3/20/2015											**650**	**0.20 J**	**17**	**940**	<1.0	<1.0	**2.2 J**
MW-23	W-R2330017-032015-ACN-028	3/20/2015	<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**	<1.0	<1.0	**0.96 J**
MW-23[A]	W-R2330017-111815-JPM-016	11/18/2015											**180**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330017-111815-JPM-016	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.0 J**	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-042016-JPM-020	4/20/2016											**190**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-042016-JPM-020	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.1 J**	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330021-110216-JPM-016	11/2/2016											**570**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330021-110216-JPM-016	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11 J**	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-042717-DMS-024	4/27/2017											**110**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-042717-DMS-024	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.4 J**	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330022-102517-DMS-016	10/25/2017											**65**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330022-102517-DMS-016	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330024-042418-DMS-014	4/24/2018											**190**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330024-042418-DMS-014	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**29**	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330025-110119-SCD-037	11/1/2019											**13**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330025-110119-SCD-037	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-052020-SSR-021	5/20/2020											**170**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-052020-SSR-021	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330026-110420-SSR-009	11/4/2020											**150**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330026-110420-SSR-009	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330027-041421-SSR-021	4/14/2021											**410**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330027-041421-SSR-021	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-22	W-R2330022-102517-AFB-014	10/25/2017	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**10,000**	NS	NS	**87**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	**8,500**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330027-041421-KRM-026	4/14/2021	NS	NS	NS	**7,200**	NS	NS	**120**	NS	NS	NS	NS	NS	NS	NS
MW-22[A]	W-R2330027-042722-SSR-023	4/27/2022	NS	NS	NS	**11,000**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-22	W-R2330027-042722-SSR-023	4/27/2022	NS	NS	NS	**6,800**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330012-051914-ACN-023	5/19/2014	**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	**1.9 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	**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	**1.8 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	**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	**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	**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**10,000**	NS	NS	**90**	NS	NS	NS	NS	NS	NS	NS
MW-23[A]	W-R2330027-041421-SSR-021	4/14/2021	NS	NS	NS	**14,000**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330027-041421-SSR-021	4/14/2021	NS	NS	NS	**10,000**	NS	NS	**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)															
			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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
MW-23[A]	W-R2330027-042722-SSR-021	4/27/2022																	
MW-23	W-R2330027-042722-SSR-021	4/27/2022	<1.0	<1.0	<1.0	<1.0	<1.0	**1.2**	<1.0	<1.0	**31**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
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
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
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
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
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
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
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
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
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
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
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
MW-24[A]	R-2330027-041421-SSR-019	4/14/2021																	
MW-24	R-2330027-041421-SSR-019	4/14/2021	<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
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
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
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
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
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
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
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
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
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																	

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-23[A]	W-R2330027-042722-SSR-021	4/27/2022																	
MW-23	W-R2330027-042722-SSR-021	4/27/2022	<1.0	<1.0	<1.0	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-24[A]	W-R2330012-112614-JCH-013	11/26/2014																	
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-24[A]	W-R2330017-032015-ACN-026	3/20/2015																	
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015																	
MW-24	W-R2330017-111815-AFB-015	11/18/2015	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<1.0	<1.0	<3.0	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	<0.35	<0.45	<0.81	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	<0.35	<0.45	<0.81	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	R-2330027-041421-SSR-019	4/14/2021																	
MW-24	R-2330027-041421-SSR-019	4/14/2021	<0.35	<0.45	<0.81	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014																	
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-25[A]	W-R2330017-032015-JCH-025	3/20/2015																	
MW-25	W-R2330017-032015-JCH-025	3/20/2015	<1.0	<1.0	<3.0	<10	<10	**0.40 J**	<10	<10	<5.0	<10	<5.0	**0.30 J**	<5.0	<10	<5.0	<10	<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
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
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
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
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
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-23[A]	W-R2330027-042722-SSR-021	4/27/2022											**78**	NS	NS	NS	NS	NS	NS
MW-23	W-R2330027-042722-SSR-021	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	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**
MW-24	W-R2330012-052014-ACN-030	5/20/2014	<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**	<1.0	<1.0	<10
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**
MW-24	W-R2330012-112614-JCH-013	11/26/2014	<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**	<1.0	<1.0	<10
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**
MW-24	W-R2330017-032015-ACN-026	3/20/2015	<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**	<1.0	**0.066 J**	<10
MW-24[A]	W-R2330017-111815-AFB-015	11/18/2015											**260**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330017-111815-AFB-015	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-042116-AFB-018	4/21/2016											**170**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-042116-AFB-018	4/21/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**39 J**	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330021-110316-JPM-022	11/3/2016											**730**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330021-110316-JPM-022	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-042717-DMS-027	4/27/2017											**19 J**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-042717-DMS-027	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330022-102517-AFB-017	10/25/2017											**27**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330022-102517-AFB-017	10/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330024-042418-DMS-009	4/24/2018											**13**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330024-042418-DMS-009	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330025-110119-SCD-035	11/1/2019											**10**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330025-110119-SCD-035	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330026-110420-KRM-010	11/4/2020											**270**	NS	NS	NS	NS	NS	NS
MW-24	W-R2330026-110420-KRM-010	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-24[A]	R-2330027-041421-SSR-019	4/14/2021											**430**	NS	NS	NS	NS	NS	NS
MW-24	R-2330027-041421-SSR-019	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	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**
MW-25	W-R2330012-051914-ACN-025	5/19/2014	<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**	<1.0	<1.0	<10
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**
MW-25	W-R2330012-112614-JCH-012	11/26/2014	<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**	<1.0	**0.071 J**	<10
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**
MW-25	W-R2330017-032015-JCH-025	3/20/2015	**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**	<1.0	**0.061 J**	<10
MW-25[A]	W-R2330017-111815-AFB-011	11/18/2015											**6,000**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330017-111815-AFB-011	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**46 J**	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-042016-AEP-017	4/20/2016											**1,400**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-042016-AEP-017	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24 J**	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330021-110316-AEM-023	11/3/2016											**250**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-042717-DMS-026	4/27/2017											**720**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-042717-DMS-026	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330022-102817-AFB-037	10/28/2017											**190**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.2 J**	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330024-042418-DMS-010	4/24/2018											**1,200**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-23[A]	W-R2330027-042722-SSR-021	4/27/2022	NS	NS	NS	**9,700**	NS	NS	**74**	NS	NS	NS	NS	NS	NS	NS
MW-23	W-R2330027-042722-SSR-021	4/27/2022	NS	NS	NS	**8,000**	NS	NS	**74**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	W-R2330012-052014-ACN-030	5/20/2014	**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	**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	**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	**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	**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**2,500**	NS	NS	**740**	NS	NS	NS	NS	NS	NS	NS
MW-24[A]	R-2330027-041421-SSR-019	4/14/2021	NS	NS	NS	**31,000**	NS	NS	**1,300**	NS	NS	NS	NS	NS	NS	NS
MW-24	R-2330027-041421-SSR-019	4/14/2021	NS	NS	NS	**2,700**	NS	NS	**1,200**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-051914-ACN-025	5/19/2014	**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	**0.59 J**	**3.7 J**	<0.005	**110 J**	**0.25 J**	<50	**150**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330012-112614-JCH-012	11/26/2014	**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	**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	**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	**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		**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	**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		**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	**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	**490**	NS	NS	**370**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330021-110316-AEM-023	11/3/2016	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	**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	**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	**350**	NS	NS	**570**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330022-102817-AFB-037	10/28/2017	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	**1,700**	NS	NS	**1,100**	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)															
			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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-25[A]	W-R2330027-041421-KRM-020	4/14/2021																	
MW-25	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022																	
MW-25	W-R2330027-042722-SRS-020	4/27/2022		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
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
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
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
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
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
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
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
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
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
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
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
MW-26[A]	W-R2330027-041421-KRM-022	4/14/2021																	
MW-26	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330027-042722-SSR-022	4/27/2022																	
MW-26	W-R2330027-042722-SSR-022	4/27/2022	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
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

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-25[A]	W-R2330027-041421-KRM-020	4/14/2021																	
MW-25	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022																	
MW-25	W-R2330027-042722-SRS-020	4/27/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-26[A]	W-R2330012-112614-JCH-011	11/26/2014																	
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
MW-26[A]	W-R2330017-032015-ACN-024	3/20/2015																	
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
MW-26[A]	W-R2330027-041421-KRM-022	4/14/2021																	
MW-26	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330027-042722-SSR-022	4/27/2022																	
MW-26	W-R2330027-042722-SSR-022	4/27/2022	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	<10	NS
MW-27[A]	W-R2330012-12114-JCH-018	12/1/2014																	
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-25	W-R2330024-042418-DMS-010	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330025-110119-KRM-034	11/1/2019											**420**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330025-110119-KRM-034	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-052220-SSR-035	5/22/2020											**1,500**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-052220-SSR-035	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330026-110420-SSR-011	11/4/2020											220	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-110420-SSR-011	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-041421-KRM-020	4/14/2021											**120**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022											**61**	NS	NS	NS	NS	NS	NS
MW-25	W-R2330027-042722-SRS-020	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	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**
MW-26	W-R2330012-051914-ACN-020	5/19/2014	<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**	<1.0	<1.0	<10
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**
MW-26	W-R2330012-112614-JCH-011	11/26/2014	<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**	<1.0	**0.079 J**	<10
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**
MW-26	W-R2330017-032015-ACN-024	3/20/2015	<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**	<1.0	**0.070 J**	**0.29 J**
MW-26[A]	W-R2330017-111815-AFB-012	11/18/2015											**910**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330017-111815-AFB-012	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-042016-AEP-016	4/20/2016											**1,200**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-042016-AEP-016	4/20/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**59**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330021-110316-JPM-024	11/3/2016											**500**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330021-110316-JPM-024	11/3/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**150**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-042717-DMS-025	4/27/2017											**290**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-042717-DMS-025	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330022-102817-AFB-038	10/28/2017											**250**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330022-102817-AFB-038	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330024-042418-DMS-012	4/24/2018											**290**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330025-110119-KRM-040	11/1/2019											**440**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-052020-SSR-015	5/20/2020											**130**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330026-110420-SSR-006	11/4/2020											**560**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-110420-SSR-006	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330027-041421-KRM-022	4/14/2021											**85**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330027-042722-SSR-022	4/27/2022											**300**	NS	NS	NS	NS	NS	NS
MW-26	W-R2330027-042722-SSR-022	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	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**
MW-27	W-R2330012-091514-ACN-002	9/15/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.8 J**	**0.58 J**	**4.5 J**	**240**	<1.0	<1.0	<10
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**
MW-27	W-R2330012-12114-JCH-018	12/1/2014	<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**	<1.0	<1.0	**0.22 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												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-25	W-R2330024-042418-DMS-010	4/24/2018	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	**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	<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	**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	<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	**700**	NS	NS	**990**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330026-110420-SSR-011	11/4/2020	NS	NS	NS	<50	NS	NS	**580**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	**410**	NS	NS	**580**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330027-041421-KRM-020	4/14/2021	NS	NS	NS	<50	NS	NS	**380**	NS	NS	NS	NS	NS	NS	NS
MW-25[A]	W-R2330027-042722-SRS-020	4/27/2022	NS	NS	NS	**1,200**	NS	NS	**570**	NS	NS	NS	NS	NS	NS	NS
MW-25	W-R2330027-042722-SRS-020	4/27/2022	NS	NS	NS	**130**	NS	NS	**280**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330012-051914-ACN-020	5/19/2014	**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	**1.1 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	**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	**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	**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**470**	NS	NS	**17**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330024-042418-DMS-012	4/24/2018	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	**650**	NS	NS	**26**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330025-110119-KRM-040	11/1/2019	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	**200**	NS	NS	**23**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-052020-SSR-015	5/20/2020	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	**840**	NS	NS	**34**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330026-110420-SSR-006	11/4/2020	NS	NS	NS	<50	NS	NS	**22**	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	**170**	NS	NS	**6.6**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330027-041421-KRM-022	4/14/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
MW-26[A]	W-R2330027-042722-SSR-022	4/27/2022	NS	NS	NS	**370**	NS	NS	**9**	NS	NS	NS	NS	NS	NS	NS
MW-26	W-R2330027-042722-SSR-022	4/27/2022	NS	NS	NS	<80	NS	NS	<5	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330012-091514-ACN-002	9/15/2014	**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	**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	**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	**2.1 J**	**1.4 J**	<5.0	**2,600**	<3.0	<50	**110**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
MW-27[A]	W-R2330027-041321-KRM-0012	4/13/2021																	
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022																	
MW-27	W-R2330027-042522-ADP-005	4/25/2022	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
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
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
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
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
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
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																	

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015																	
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
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
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
MW-27[A]	W-R2330027-041321-KRM-0012	4/13/2021																	
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022																	
MW-27	W-R2330027-042522-ADP-005	4/25/2022	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
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
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015																	
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<1.0	<1.0	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11
MW-29[A] (DUP)	W-R2330012-020515-ACN-002	2/5/2015																	
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<1.0	<1.0	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11
MW-29[A]	W-R2330017-031615-JCH-001	3/16/2015																	
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015											**270**	**0.43 J**	**0.97 J**	**210**	<1.0	**0.13 J**	**0.76 J**
MW-27	W-R2330017-031915-JCH-016	3/19/2015	<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**	<1.0	**0.23 J**	**0.35 J**
MW-27[A]	W-R2330017-111915-JPM-020	11/19/2015											**54**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330017-111915-JPM-020	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.2 J**	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-042216-AFB-031	4/22/2016											**59**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330021-042216-AFB-031	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.6 J**	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330021-110416-JPM-033	11/4/2016											**120**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330021-110416-JPM-033	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.7 J**	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
MW-27 (DUP)	W-R2330021-110416-JPM-034	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-042817-AFB-031	4/28/2017											**71**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-042817-AFB-031	4/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330022-102417-DMS-009	10/24/2017											**35**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330022-102417-DMS-009	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.6 J**	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-042518-DMS-024	4/25/2018											**170**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-042518-DMS-024	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4**	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330024-102618-SSR-028	10/26/2018											**48**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330024-102618-SSR-028	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9**	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-050619-SSR-031	5/6/2019											**71**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-050619-SSR-031	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3**	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330025-102919-SCD-019	10/29/2019											**10**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330025-102919-SCD-019	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-052120-KRM-025	5/21/2020											**33**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-052120-KRM-025	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330026-110520-KRM-016	11/5/2020											630	NS	NS	NS	NS	NS	NS
MW-27	W-R2330026-110520-KRM-016	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-041321-KRM-0012	4/13/2021											**28**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022											**730.0**	NS	NS	NS	NS	NS	NS
MW-27	W-R2330027-042522-ADP-005	4/25/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019											<8.0	NS	NS	NS	NS	NS	NS
MW-28	W-R2330025-102919-SCD-008	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330026-052020-KRM-016	5/20/2020											**48.0**	NS	NS	NS	NS	NS	NS
MW-28	W-R2330026-052020-KRM-016	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	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**
MW-29	W-R2330012-020515-ACN-001	2/5/2015	<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**	<1.0	<1.0	<10
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**
MW-29 (DUP)	W-R2330012-020515-ACN-002	2/5/2015	<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**	<1.0	<1.0	<10
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**
MW-29	W-R2330017-031615-JCH-001	3/16/2015	<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**	<1.0	**0.048 J**	<10
MW-29[A]	W-R2330017-112015-AFB-028	11/20/2015											**420**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330017-112015-AFB-028	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-042216-AFB-033	4/22/2016											**110**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-27[A]	W-R2330017-031915-JCH-016	3/19/2015	**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**4,800**	NS	NS	**92**	**0.12 J**	**130 J**	**12 J**	<0.20	**0.96 J**	**9.3**	**580**
MW-27	W-R2330022-102417-DMS-009	10/24/2017	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**4,100**	NS	NS	**96**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	**2,600**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330027-041321-KRM-0012	4/13/2021	NS	NS	NS	**2,400**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-27[A]	W-R2330027-042522-ADP-005	4/25/2022	NS	NS	NS	**11,000**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-27	W-R2330027-042522-ADP-005	4/25/2022	NS	NS	NS	**6,800**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-28[A]	W-R2330025-102919-SCD-008	10/29/2019	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	**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	**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	**28,000**	NS	NS	**490**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330012-020515-ACN-001	2/5/2015	**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	**1.1**	**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	**1.3 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	**1.3 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	**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 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		**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	**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		**5,400**	NS	NS	**260**	<0.2	**53 J**	<5.0	<0.20	<2.0	**46**	**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			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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
MW-29[A]	W-R2330027-041321-SSR-005	4/13/2021																	
MW-29	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022																	
MW-29	W-R2330027-042822-SSR-027	4/28/2022	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
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
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
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
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
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
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
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
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
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

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)													
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
MW-29[A]	W-R2330027-041321-SSR-005	4/13/2021																	
MW-29	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022																	
MW-29	W-R2330027-042822-SSR-027	4/28/2022	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	<1.0	<1.0	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11
MW-30[A]	W-R2330017-031615-ACN-002	3/16/2015																	
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-29	W-R2330021-042216-AFB-033	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.5 J**	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330021-110416-AEM-031	11/4/2016											**54**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330021-110416-AEM-031	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.3 J**	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-042517-JPM-006	4/25/2017											**18 J**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-042517-JPM-006	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20 J**	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330022-102617-AFB-024	10/26/2017											**12**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330022-102617-AFB-024	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-042518-JPM-023	4/25/2018											42	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-042518-JPM-023	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330024-102318-SSR-010	10/23/2018											**15.0**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330024-102318-SSR-010	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110.0**	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-043019-SSR-005	4/30/2019											**230.0**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-043019-SSR-005	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330025-103119-SCD-029	10/31/2019											**40**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330025-103119-SCD-029	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-051920-JPM-007	5/19/2020											**260**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-051920-JPM-007	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330026-111020-SSR-034	11/10/2020											**640**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330026-111020-SSR-034	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-041321-SSR-005	4/13/2021											**19**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022											**1700**	NS	NS	NS	NS	NS	NS
MW-29	W-R2330027-042822-SSR-027	4/28/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	10	NS	NS	NS	NS	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**
MW-30	W-R2330012-020515-ACN-003	2/5/2015	<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**	<1.0	**0.45 J**	<10
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**
MW-30	W-R2330017-031615-ACN-002	3/16/2015	<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**	<1.0	**0.22 J**	<10
MW-30[A]	W-R2330017-112015-JPM-029	11/20/2015											**54**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330017-112015-JPM-029	11/20/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-042216-JPM-034	4/22/2016											**21 J**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-042216-JPM-034	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS
MW-30[A]	DUP 2	4/22/2016											**18 J**	NS	NS	NS	NS	NS	NS
MW-30	DUP 2	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330021-110416-AEM-032	11/4/2016											**28 J**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330021-110416-AEM-032	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.4 J**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-042517-DMS-007	4/25/2017											**35 J**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330022-042517-DMS-007	4/25/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330022-102617-AFB-025	10/26/2017											**480**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330022-102617-AFB-025	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**38**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-042518-JPM-025	4/25/2018											**70**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.7**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018											**4.7**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-102318-RM-011	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**95**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-29	W-R2330021-042216-AFB-033	4/22/2016	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**2,600**	NS	NS	**70**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	**2,400**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330027-041321-SSR-005	4/13/2021	NS	NS	NS	**1,800**	NS	NS	**160**	NS	NS	NS	NS	NS	NS	NS
MW-29[A]	W-R2330027-042822-SSR-027	4/28/2022	NS	NS	NS	**34,000**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-29	W-R2330027-042822-SSR-027	4/28/2022	NS	NS	NS	**1,200**	NS	NS	**57**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330012-020515-ACN-003	2/5/2015	**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	**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	**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	**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		**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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**620**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330024-042518-JPM-025	4/25/2018	NS	NS	NS	**340**	NS	NS	**92**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330024-102318-RM-011	10/23/2018	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	**730**	NS	NS	**52**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
MW-30[A]	W-R2330027-041321-SSR-007	4/13/2021																	
MW-30	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022																	
MW-30	W-R2330027-042822-SSR-028	4/28/2022	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
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
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
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
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
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
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
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
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
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
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
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
MW-31[A]	W-R2330027-041221-KRM-001	4/12/2021																	
MW-31	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022																	
MW-31	W-R2330027-042522-SSR-001	4/25/2022	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																	

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)			
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
MW-30[A]	W-R2330027-041321-SSR-007	4/13/2021																	
MW-30	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022																	
MW-30	W-R2330027-042822-SSR-028	4/28/2022	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
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
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
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
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
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
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
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
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
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
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
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
MW-31[A]	W-R2330027-041221-KRM-001	4/12/2021																	
MW-31	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022																	
MW-31	W-R2330027-042522-SSR-001	4/25/2022	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																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019											**1,200**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-043019-SSR-006	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.2 J**	NS	NS	NS	NS	NS	NS
MW-30[A] (DUP)	W-R2330025-043019-SSR-011	4/30/2019											**410**	NS	NS	NS	NS	NS	NS
MW-30 (DUP)	W-R2330025-043019-SSR-011	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.6 J**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330025-103119-KRM-030	10/31/2019											**310**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330025-103119-KRM-030	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-051920-JPM-009	5/19/2020											**86**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330026-111020-SSR-035	11/10/2020											**130**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-111020-SSR-035	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-041321-SSR-007	4/13/2021											**130**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022											**1400**	NS	NS	NS	NS	NS	NS
MW-30	W-R2330027-042822-SSR-028	4/28/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8.8	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015											**330**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-060515-ACN-001	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-111615-AEP-001	11/16/2015											**3,400**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330017-111615-AEP-001	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-041816-JPM-003	4/18/2016											**12**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-041816-JPM-003	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330021-103116-AEM-003	10/31/2016											**14 J**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330021-103116-AEM-003	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-042417-DMS-002	4/24/2017											**350**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-042417-DMS-002	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13 J**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330022-102317-DMS-003	10/23/2017											**16**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330022-102617-DMS-003	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-042318-DMS-003	4/23/2018											**480**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-042318-DMS-003	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**31**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330024-102218-JPM-001	10/22/2018											**1,100**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330024-102218-JPM-001	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.5**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-050319-SSR-027	5/3/2019											**1,300**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330025-102819-KRM-003	10/28/2019											**300**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330025-102819-KRM-003	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-051820-KRM-001	5/18/2020											**8,400**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-051820-KRM-001	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330026-110220-KRM-001	11/2/2020											**36**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330026-110220-KRM-001	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-041221-KRM-001	4/12/2021											41	NS	NS	NS	NS	NS	NS
MW-31	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022											**96**	NS	NS	NS	NS	NS	NS
MW-31	W-R2330027-042522-SSR-001	4/25/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015											**1,400**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-30[A]	W-R2330025-043019-SSR-006	4/30/2019	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	**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	**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	**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	**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	**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	**230**	NS	NS	**49**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-051920-JPM-009	5/19/2020	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	**690**	NS	NS	**54**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330026-111020-SSR-035	11/10/2020	NS	NS	NS	**160**	NS	NS	**47**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	**180**	NS	NS	**79**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330027-041321-SSR-007	4/13/2021	NS	NS	NS	<50	NS	NS	**65**	NS	NS	NS	NS	NS	NS	NS
MW-30[A]	W-R2330027-042822-SSR-028	4/28/2022	NS	NS	NS	**3,600**	NS	NS	**250**	NS	NS	NS	NS	NS	NS	NS
MW-30	W-R2330027-042822-SSR-028	4/28/2022	NS	NS	NS	67	NS	NS	**29**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330017-060515-ACN-001	6/5/2015	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	**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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**1,500**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	**150,000**	NS	NS	**5,800**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330027-041221-KRM-001	4/12/2021	NS	NS	NS	**870**	NS	NS	**620**	NS	NS	NS	NS	NS	NS	NS
MW-31[A]	W-R2330027-042522-SSR-001	4/25/2022	NS	NS	NS	**2,100**	NS	NS	**520**	NS	NS	NS	NS	NS	NS	NS
MW-31	W-R2330027-042522-SSR-001	4/25/2022	NS	NS	NS	**1,600**	NS	NS	**510**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-060515-ACN-002	6/5/2015	NS	NS		**4,700**	NS	<50	**95**	<0.2	**6.4 J**	<5.0	<0.20	<2.0	<4.0	**51**

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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
MW-32[A]	W-R2330027-041221-KRM-002	4/12/2021																	
MW-32	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022																	
MW-32	W-R2330027-042522-ADH002	4/25/2022	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
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
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
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
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
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
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
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

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)		
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
MW-32[A]	W-R2330027-041221-KRM-002	4/12/2021																	
MW-32	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022																	
MW-32	W-R2330027-042522-ADH002	4/25/2022	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
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
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
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
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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-32	W-R2330017-060515-ACN-002	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.1 J**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330017-111615-AEP-002	11/16/2015											**920**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330017-111615-AEP-002	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**120**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-041816-AEP-004	4/18/2016											**160**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-041816-AEP-004	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.0 J**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330021-103116-JPM-004	10/31/2016											**780**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330021-103116-JPM-004	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**170**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-042417-AFB-001	4/24/2017											**1,600**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330022-102317-DMS-004	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7 J**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-102317-DMS-004	10/23/2017											<4.2	NS	NS	NS	NS	NS	NS
MW-32	W-R2330022-042417-AFB-001	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19 J**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-042318-JPM-004	4/23/2018											**2,000**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-042318-JPM-004	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**180**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330024-102218-SSR-002	10/22/2018											**300**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330024-102218-SSR-002	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.3**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-050319-SSR-026	5/3/2019											**4,700**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-050319-SSR-026	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**340**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330025-102819-SCD-004	10/28/2019											**300**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330025-102819-SCD-004	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**11**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-051820-KRM-003	5/18/2020											**320**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-051820-KRM-003	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.3 J**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330026-110220-KRM-002	11/2/2020											<10.0	NS	NS	NS	NS	NS	NS
MW-32	W-R2330026-110220-KRM-002	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10.0	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-041221-KRM-002	4/12/2021											**360**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**24**	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022											**2,500**	NS	NS	NS	NS	NS	NS
MW-32	W-R2330027-042522-ADH002	4/25/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015											**1,000**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-060515-ACN-003	6/5/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18 J**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-111615-AEP-003	11/16/2015											**860**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330017-111615-AEP-003	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**15 J**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-041816-JPM-005	4/18/2016											**67**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-041816-JPM-005	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.8 J**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330021-103116-JPM-005	10/31/2016											**400**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330021-103116-JPM-005	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-042417-DMS-003	4/24/2017											**820**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-042417-DMS-003	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16 J**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330022-102617-DMS-005	10/23/2017											**430**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330022-102617-DMS-005	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**39**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-042318-DMS-005	4/23/2018											**5.2 J**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-042318-DMS-005	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**360**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330024-102218-JPM-003	10/22/2018											**530**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330024-102218-JPM-003	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**3.4**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-32	W-R2330017-060515-ACN-002	6/5/2015	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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**6,000**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	**4,100**	NS	NS	**59**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330027-041221-KRM-002	4/12/2021	NS	NS	NS	**4,900**	NS	NS	**63**	NS	NS	NS	NS	NS	NS	NS
MW-32[A]	W-R2330027-042522-ADH002	4/25/2022	NS	NS	NS	**5,600**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-32	W-R2330027-042522-ADH002	4/25/2022	NS	NS	NS	**1,200**	NS	NS	**61**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330017-060515-ACN-003	6/5/2015	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	**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		**3,400**	NS	**84,000**	NS	<0.2	<20	<5.0	<0.20	<2.0	<4.0	**3.4 J**
MW-33	W-R2330017-111615-AEP-003	11/16/2015	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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**3,900**	NS	NS	**75**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-33[A]	W-R2330027-041221-KRM-003	4/12/2021																	
MW-33	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022																	
MW-33	W-R2330027-042522-SSR-003	4/25/2022	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
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
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
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
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
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
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
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
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
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
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
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
MW-34[A]	W-R2330027-041221-SSR-015	4/13/2021																	
MW-34	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021																	
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022																	
MW-34	W-R2330027-042822-SSR-031	4/28/2022	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																	

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)		
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
MW-33[A]	W-R2330027-041221-KRM-003	4/12/2021																	
MW-33	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022																	
MW-33	W-R2330027-042522-SSR-003	4/25/2022	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	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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
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
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
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
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
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
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
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
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
MW-34[A]	W-R2330027-041221-SSR-015	4/13/2021																	
MW-34	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021																	
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022																	
MW-34	W-R2330027-042822-SSR-031	4/28/2022	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																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019											**300**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-050319-ADH-025	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.0 J**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330025-102819-KRM-005	10/28/2019											**28**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330025-102819-KRM-005	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-051820-KRM-005	5/18/2020											**170**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-051820-KRM-005	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<8.0**	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330026-110220-KRM-003	11/2/2020											**30**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330026-110220-KRM-003	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-041221-KRM-003	4/12/2021											**150**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022											**1100**	NS	NS	NS	NS	NS	NS
MW-33	W-R2330027-042522-SSR-003	4/25/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**<10**	NS	NS	NS	NS	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**
MW-34	W-R2330017-060515-ACN-004	6/5/2015	<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**	<1.0	<1.0	**1.3 J**
MW-34[A]	W-R2330017-111815-JPM-017	11/18/2015											**28 J**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330017-111815-JPM-017	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**2.9 J**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-041916-JPM-013	4/19/2016											**120**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-041916-JPM-013	4/19/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.7 J**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330021-110416-AEM-030	11/4/2016											**300**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330021-110416-AEM-030	11/4/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-042417-DMS-004	4/24/2017											**120**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-042417-DMS-004	4/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12 J**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330022-102617-DMS-006	10/23/2017											**180**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330022-102617-DMS-006	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.9 J**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-042318-DMS-007	4/23/2018											**42**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-042318-DMS-007	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	< 50	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330024-102218-JPM-006	10/22/2018											**21**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330024-102218-JPM-006	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**5.2**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-043019-SSR-010	4/30/2019											**140**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-043019-SSR-010	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.8 J**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330025-103119-KRM-031	10/31/2019											**450**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330025-103119-KRM-031	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-051920-JPM-011	5/19/2020											**41**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-051920-JPM-011	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**23**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330026-111020-SSR-036	11/10/2020											**100**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330026-111020-SSR-036	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-041221-SSR-015	4/13/2021											**110**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021											**140**	NS	NS	NS	NS	NS	NS
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022											**2,400**	NS	NS	NS	NS	NS	NS
MW-34	W-R2330027-042822-SSR-031	4/28/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**14**	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016											**110**	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-33[A]	W-R2330025-050319-ADH-025	5/3/2019	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	**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	**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	**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	**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	**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	**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	**3,900**	NS	NS	**67**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	**3,800**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330027-041221-KRM-003	4/12/2021	NS	NS	NS	**3,600**	NS	NS	**74**	NS	NS	NS	NS	NS	NS	NS
MW-33[A]	W-R2330027-042522-SSR-003	4/25/2022	NS	NS	NS	**5,100**	NS	NS	**100**	NS	NS	NS	NS	NS	NS	NS
MW-33	W-R2330027-042522-SSR-003	4/25/2022	NS	NS	NS	**3,500**	NS	NS	**72**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330017-060515-ACN-004	6/5/2015	**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 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		**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	**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		**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**2,500**	NS	NS	**420**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	**2,000**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330027-041221-SSR-015	4/13/2021	NS	NS	NS	**1,400**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-34[A] (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	**2,000**	NS	NS	**200**	NS	NS	NS	NS	NS	NS	NS
MW-34 (DUP)	W-R2330027-041221-SSR-017	4/13/2021	NS	NS	NS	**1,400**	NS	NS	**180**	NS	NS	NS	NS	NS	NS	NS
MW-34[A]	W-R2330027-042822-SSR-031	4/28/2022	NS	NS	NS	**7,300**	NS	NS	**260**	NS	NS	NS	NS	NS	NS	NS
MW-34	W-R2330027-042822-SSR-031	4/28/2022	NS	NS	NS	**2,700**	NS	NS	**170**	NS	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	**320**	NS	NS	**16 J**	<0.2	<20	<5.0	<0.20	<2.0	<4.0	NS

Table 3
Summary Of Ground Water Sample Results

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

GROUNDWATER: Part 201/213 Generic Residential Cleanup Criteria Revised December 30, 2013 and Guidance Document for the Vapor Intrusion Pathway May 2013 Units: µg/L			Volatile Organic Compounds (VOCs)															
			2-Butanone (MEK)	1,2- Dichlorobenzene	1,4-Dichlorobenzene	4-Methyl-2-Pentanone (MIBK)	Acetone	Benzene	Bromodichloromethane	Carbon disulfide	Chlorobenzene	Chloroethane	Chloromethane	Chloroform	Cyclohexane	Dibromochloromethane	Dichlorodifluoromethane	Ethylbenzene	Isopropylbenzene
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
CRA-266M[A]	W-R2330017-032015-ACN-030	3/20/2015																	
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
MW-35	W-R2330021-041816-AEP-001	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330021-103116-JPM-002	10/31/2016											50 J	NS	NS	NS	NS	NS	NS
MW-35	W-R2330021-103116-JPM-002	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	8 J	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-050117-AFB-036	5/1/2017											**220**	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-050117-AFB-036	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330022-102317-DMS-002	10/23/2017											**33**	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-042318-JPM-002	4/23/2018											**61**	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.7 J**	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330024-102518-SSR-023	10/25/2018											**73**	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**26**	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-042919-SSR-001	4/29/2019											**460**	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-042919-SSR-001	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.3 J**	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330025-102819-KRM-001	10/28/2019											**8.5**	NS	NS	NS	NS	NS	NS
MW-35	W-R2330025-102819-KRM-001	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-35[A]	W-R2330026-051820-JPM-002	5/18/2020											**3,500**	NS	NS	NS	NS	NS	NS
MW-35	W-R2330026-051820-JPM-002	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.9 J**	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016											**59**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-041816-JPM-002	4/18/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.1 J**	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-103116-AEM-001	10/31/2016											**58**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.7 J**	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-050117-AFB-037	5/1/2017											**240**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-050117-AFB-037	5/1/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330022-102317-DMS-001	10/23/2017											**25**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<4.2	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102317-JPM-002	4/23/2018											**220**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102317-JPM-002	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**6.2 J**	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330024-102518-SSR-024	10/25/2018											**940**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102518-SSR-024	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**13.0**	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-042919-JPM-002	4/29/2019											**400**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.10 J**	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330025-102819-KRM-002	10/28/2019											**9.7 J**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330026-051820-JPM-004	5/18/2020											**240**	NS	NS	NS	NS	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**110**	NS	NS	NS	NS	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**
CRA-266M	W-R2330017-032015-ACN-030	3/20/2015	<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**	<1.0	**0.23 J**	**0.16 J**
CRA-266M[A]	W-R2330017-111715-JPM-006	11/17/2015											**8.6 J**	**NS**	NS	NS	NS	NS	NS
CRA-266M	W-R2330017-111715-JPM-006	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-042216-JPM-032	4/22/2016											**22 J**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33 J**	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330021-110216-JPM-015	11/2/2016											**4.8 J**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-110216-JPM-015	11/2/2016	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
MW-35	W-R2330021-041816-AEP-001	4/18/2016	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	**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	**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	**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	**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	**110**	NS	NS	**12**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330022-102317-DMS-002	10/23/2017	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	**210**	NS	NS	**18**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-042318-JPM-002	4/23/2018	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	**270**	NS	NS	**27**	NS	NS	NS	NS	NS	NS	NS
MW-35	W-R2330024-102518-SSR-023	10/25/2018	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	**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	**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	<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	<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	**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	59 J	NS	NS	**<2.5**	NS	NS	NS	NS	NS	NS	NS
MW-36[A]	W-R2330021-041816-JPM-002	4/18/2016	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	**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	**490**	NS	NS	**150**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330021-103116-AEM-001	10/31/2016	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	**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	**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	**450**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330022-102317-DMS-001	10/23/2017	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	**580**	NS	NS	**190**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330024-102317-JPM-002	4/23/2018	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	**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	**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	**900**	NS	NS	**350**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-042919-JPM-002	4/29/2019	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	**200**	NS	NS	**130**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330025-102819-KRM-002	10/28/2019	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	**700**	NS	NS	**320**	NS	NS	NS	NS	NS	NS	NS
MW-36	W-R2330026-051820-JPM-004	5/18/2020	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	**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	**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		**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	**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		**440**	NS	NS	**110**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330021-042216-JPM-032	4/22/2016	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	**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	**130 J**	NS	NS	**68**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																	
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
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
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
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
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
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
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021																	
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022																	
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	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
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
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
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**
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
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
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
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
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
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
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
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
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																	

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)			
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017																	
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	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
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
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
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
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
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
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021																	
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022																	
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	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	<1.0	**0.37 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.28 J**	<10	<10
SB-14[A]	W-R2330009-121013-AJL-007	12/10/2013																	
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.77 J**	<5.0	<5.0	<10	**0.34 J**	<10	<10
SB-15[A]	W-R2330009-120913-AJL-006	12/9/2013																	
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<1.0	**0.31 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.56 J**	<10	<10
SB-21[A]	W-R2330009-120513-RD-001	12/5/2013																	
SB-21	W-R2330009-120513-RD-001	12/5/2013	<1.0	**0.44 J**	**4.2**	<10	<10	**0.19 J**	<10	**0.41 J**	<5.0	<10	**1.6 J**	**0.54 J**	**0.22 J**	**0.79 J**	<5.0	<10	<10
SB-22[A]	W-R2330009-120513-RD-002	12/5/2013																	
SB-22	W-R2330009-120513-RD-002	12/5/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	**0.12 J**	<5.0	**0.51 J**	<5.0	<10	<10
SB-23[A]	W-R2330009-120513-RD-003	12/5/2013																	
SB-23	W-R2330009-120513-RD-003	12/5/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-24[A]	W-R2330009-120613-RD-004	12/6/2013																	
SB-24	W-R2330009-120613-RD-004	12/6/2013	<1.0	**0.29 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013																	
SB-25	W-R2330009-120613-RD-005	12/6/2013	<1.0	**0.48 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013																	
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<1.0	**0.28 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-27[A]	W-R2330009-121113-AJL-010	12/11/2013																	
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.26 J**	<5.0	<5.0	<10	**0.28 J**	<10	<10
SB-27[A] (DUP)	W-R2330009-121113-AJL-011	12/11/2013																	
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	**0.29 J**	<10	<10
SB-28[A]	W-R2330009-121113-AJL-012	12/11/2013																	
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	**0.46 J**	<5.0	<5.0	<10	<5.0	<10	<10
SB-29[A]	W-R2330009-121213-AJL-014	12/12/2013																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017											**29 J**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330022-042717-AFB-022	4/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-042518-JPM-021	4/25/2018											<50	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330024-102518-SSR-019	10/25/2018											**6.3**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	U	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-050119-SSR-014	5/1/2019											16	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330025-110419-KRM-043	11/4/2019											<8.0	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-052020-KRM-014	5/20/2020											**14**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**25**	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330026-110420-KRM-005	11/4/2020											**210**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-110420-KRM-005	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021											**30**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022											**550**	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<10	NS	NS	NS	NS	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**
SB-13	W-R2330009-121013-AJL-008	12/10/2013	<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**	<1.0	**0.071 J**	<10
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**
SB-14	W-R2330009-121013-AJL-007	12/10/2013	<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**	<1.0	**0.064 J**	<10
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**
SB-15	W-R2330009-120913-AJL-006	12/9/2013	<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**	<1.0	<1.0	<10
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**
SB-21	W-R2330009-120513-RD-001	12/5/2013	**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**	<1.0	<1.0	**1.7 J**
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**
SB-22	W-R2330009-120513-RD-002	12/5/2013	<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**	<1.0	<1.0	**1.1 J**
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**
SB-23	W-R2330009-120513-RD-003	12/5/2013	<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**	<1.0	<1.0	**2.3 J**
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**
SB-24	W-R2330009-120613-RD-004	12/6/2013	<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**	<1.0	<1.0	<10
SB-25[A]	W-R2330009-120613-RD-005	12/6/2013											**250,000**	**2.6 J**	**470**	**1,300**	**9.8 J**	**13**	**540**
SB-25	W-R2330009-120613-RD-005	12/6/2013	<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**	<1.0	**0.10 J**	**1.4 J**
SB-26[A]	W-R2330009-121013-AJL-009	12/10/2013											**15,000**	**5.0 J**	**610**	**970 J**	**12**	**17**	**1,000**
SB-26	W-R2330009-121013-AJL-009	12/10/2013	<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**	<1.0	<1.0	<10
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**
SB-27	W-R2330009-121113-AJL-010	12/11/2013	<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**	<1.0	<1.0	<10
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**
SB-27 (DUP)	W-R2330009-121113-AJL-011	12/11/2013	<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**	<1.0	<1.0	<10
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**
SB-28	W-R2330009-121113-AJL-012	12/11/2013	<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**	<1.0	<1.0	<10
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**

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												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
CRA-266M[A]	W-R2330022-042717-AFB-022	4/27/2017	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	**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	**360**	NS	NS	**96**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-042518-JPM-021	4/25/2018	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	**170**	NS	NS	**34**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330024-102518-SSR-019	10/25/2018	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	**250**	NS	NS	**84**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-050119-SSR-014	5/1/2019	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	**280**	NS	NS	**65**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330025-110419-KRM-043	11/4/2019	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	**200**	NS	NS	**84**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330026-052020-KRM-014	5/20/2020	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	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	<50	NS	NS	**25**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	**280**	NS	NS	**70**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330027-041521-KRM-030	4/15/2021	NS	NS	NS	<50	NS	NS	**31**	NS	NS	NS	NS	NS	NS	NS
CRA-266M[A]	W-R2330027-042722-SSR-019	4/27/2022	NS	NS	NS	**2,000**	NS	NS	**450**	NS	NS	NS	NS	NS	NS	NS
CRA-266M	W-R2330027-042722-SSR-019	4/27/2022	NS	NS	NS	<80	NS	NS	**4**	NS	NS	NS	NS	NS	NS	NS
SB-13[A]	W-R2330009-121013-AJL-008	12/10/2013	**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	**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	**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	**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	**1.5 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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**85 J**	**330**		**230,000**	**200**	<50	**4,100**	NS	NS	NS	NS	NS	NS	NS
SB-28	W-R2330009-121113-AJL-012	12/11/2013	**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	**12 J**	**90**		**51,000**	**330**	<50	**980**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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**
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**
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
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**
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**
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
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
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
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
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
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
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
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**
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**
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**
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
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**
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**
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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)														
			Methylcyclohexane	Toluene	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	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<1.0	**39**	**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	<10
SB-30[A]	W-R2330009-121213-AJL-016	12/12/2013																	
SB-30	W-R2330009-121213-AJL-016	12/12/2013	<1.0	**0.33 J**	**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	<10
SB-31[A]	W-R2330009-121213-AJL-018	12/12/2013																	
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<1.0	**0.44 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<10
SB-32[A]	W-R2330009-121213-AJL-015	12/12/2013																	
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<1.0	**0.27 J**	**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	<10
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013																	
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<1.0	**0.29 J**	**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	<10
SB-34[A]	W-R2330009-121313-AJL-018	12/13/2013																	
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<1.0	**0.44 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.65 J**	<5.0	<10	<10
SB-34[A] (DUP)	W-R2330009-121313-AJL-019	12/13/2013																	
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<1.0	**0.38 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	**0.69 J**	<5.0	<10	<10
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-19	W-2330012-040114-ACN-004	4/1/2014	**1.1**	**0.62 J**	**1.0 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-20	W-2330012-040114-ACN-005	4/1/2014	<1.0	**0.25 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-35	W-2330012-040114-ACN-006	4/1/2014	**1.1**	**0.25 J**	**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	<10	**1.9 J**
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<1.0	**0.54 J**	**2.8 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<1.0	**0.52 J**	**2.8 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<1.0	**0.82 J**	**1.7 J**	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<1.0	**0.38 J**	**1.5 J**	<10	<10	**1.5 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<1.0	**0.30 J**	**1.5 J**	<10	<10	**1.2 J**	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<1.0	**0.30 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<1.0	**0.49 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<1.0	**0.35 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<1.0	**0.39 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<1.0	<1.0	<3.0	<80	<10	<5.0	<10	<10	<80	<80	<40	<5.0	<5.0	<10	<5.0	<10	<80
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<1.1	<5.0	<5.0	<5.0	<10	<5.0	<10	<0.84
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<1.0	<1.0	<3.0	**0.56 J**	<10	<5.0	<10	<10	<5.0	<10	**1.1 J**	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330009-080813-ZTR-012	8/8/2013																	
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330009-121113-AJL-013	12/11/2013																	
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
SB-29	W-R2330009-121213-AJL-014	12/12/2013	<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**	<1.0	<1.0	**3.1 J**
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**
SB-30	W-R2330009-121213-AJL-016	12/12/2013	**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**	<1.0	<1.0	<10
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**
SB-31	W-R2330009-121213-AJL-018	12/12/2013	<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**	<10	<10	**4.3 J**
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**
SB-32	W-R2330009-121213-AJL-015	12/12/2013	<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**	<1.0	<1.0	**4.7 J**
SB-33[A]	W-R2330009-121213-AJL-017	12/12/2013											**45,000**	**95**	**66**	**3,400**	**2.0 J**	**42**	**320**
SB-33	W-R2330009-121213-AJL-017	12/12/2013	<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**	<1.0	<1.0	**3.5 J**
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**
SB-34	W-R2330009-121313-AJL-018	12/13/2013	<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**	<1.0	<1.0	**4.3 J**
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**
SB-34 (DUP)	W-R2330009-121313-AJL-019	12/13/2013	<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**	<1.0	<1.0	<10
SB-16	W-R2330012-033114-ACN-001	3/31/2014	<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**	<1.0	**0.12 J**	**0.97 J**
SB-17	W-R2330012-033114-ACN-002	3/31/2014	<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**	<1.0	**0.046 J**	**0.65 J**
SB-18	W-R2330012-033114-ACN-003	3/31/2014	<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**	<1.0	**0.053 J**	**1.4 J**
SB-19	W-2330012-040114-ACN-004	4/1/2014	<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**	<1.0	<1.0	<10
SB-20	W-2330012-040114-ACN-005	4/1/2014	<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**	<1.0	<1.0	<10
SB-35	W-2330012-040114-ACN-006	4/1/2014	<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**	<1.0	<1.0	**3.6 J**
SB-36	W-R2330012-040314-ACN-007	4/3/2014	<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**	<1.0	<1.0	**1.6 J**
SB-36 (DUP)	W-R2330012-040314-ACN-008	4/3/2014	<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**	<1.0	<1.0	**1.4 J**
SB-37	W-R2330012-040314-ACN-009	4/3/2014	<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**	<1.0	<1.0	**3.5 J**
SB-38	W-R2330012-040314-ACN-010	4/3/2014	<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**	<1.0	<1.0	<10
SB-39	W-R2330012-040314-ACN-011	4/3/2014	<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**	<1.0	<1.0	**4.4 J**
SB-46	W-R2330012-041114-ACN-015	4/11/2014	<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**	<1.0	<1.0	**1.8 J**
SB-47	W-R2330012-041114-ACN-016	4/11/2014	<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**	<1.0	<1.0	**0.95 J**
SB-48	W-R2330012-040314-ACN-013	4/9/2014	<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**	<1.0	<1.0	<10
SB-49	W-R2330012-040314-ACN-014	4/9/2014	<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**	<1.0	<1.0	<10
SB-50	W-R2330012-040314-ACN-012	4/9/2014	<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**	<1.0	**0.58 J**	<10
SW-1	W-R2330009-050313-MJF-015	5/3/2013	<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**	<1.0	<1.0	**1.1 J**
SW-1	W-R2330012-041514-ACN-017	4/15/2014	<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**	<1.0	**0.4 J**	**4.3 J**
SW-2	W-R2330009-050313-MJF-014	5/3/2013	<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**	<1.0	**0.063 J**	**0.44 J**
SW-2	W-R2330012-041514-ACN-019	4/15/2014	<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**	<1.0	**0.23 J**	<10
SW-3	W-R2330009-051013-MJF-016	5/10/2013	<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**	<1.0	**0.046 J**	**1.2 J**
SW-3	W-R2330012-041514-ACN-018	4/15/2014	<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**	<1.0	<1.0	<10
SW-3	W-R2330024-042418-JPM-011	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1,500**	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	**11**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	<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**	<1.0	<1.0	**0.14 J**
Equipment Blank	W-R2330009-050113-MJF-006	5/1/2013	<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**	<1.0	<1.0	**0.59 J**
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**
Equipment Blank	W-R2330009-080813-ZTR-012	8/8/2013	<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**	<1.0	<1.0	<10
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
Equipment Blank	W-R2330009-121113-AJL-013	12/11/2013	<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**	<1.0	<1.0	<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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
SB-29	W-R2330009-121213-AJL-014	12/12/2013	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**1.8 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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**1.5 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	**1.7 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	**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	**1.3 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	**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	**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	**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	**45 J**	NS	NS	**38**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330004-090512-MJF-05	9/5/2012	**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	**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	<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	**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	<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	**0.14 J**	<4.0	<0.005	**10 J**	<3.0	<50	**0.31 J**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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)		
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																			
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014																			
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330012-052014-ACN-031	5/20/2014																			
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<1.0	**0.4 J**	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330012-112414-ACN-005	11/24/2014																			
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330012-112514-ACN-010	11/25/2014																			
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330012-112614-JCH-016	11/26/2014																			
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330012-12114-JCH-022	12/1/2014																			
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014																			
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330012-020515-ACN-004	2/5/2015																			
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<1.0	<1.0	<3.0	<11	<11	<5.3	<11	<10	<5.3	<11	<5.3	<5.3	<5.3	<11	<5.3	<10	<11
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015																			
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330017-031715-ACN-014	3/17/2015																			
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015																			
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<10
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015																			
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<1.0	<1.0	<3.0	<10	<10	<5.0	<10	<10	<5.0	<10	<5.0	<5.0	<5.0	<10	<5.0	<10	<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
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-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
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	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
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
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
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

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
Equipment Blank	W-R2330012-032814-ACN-012	3/28/2014	<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**	**91 J**	<1.0	<1.0
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
Equipment Blank	W-R2330012-052014-ACN-031	5/20/2014	<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**	<1.0	<1.0	<1.0
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
Equipment Blank	W-R2330012-112414-ACN-005	11/24/2014	<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	<1.0	**0.027 J**	<10
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
Equipment Blank	W-R2330012-112514-ACN-010	11/25/2014	<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**	<1.0	<1.0	<10
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
Equipment Blank	W-R2330012-112614-JCH-016	11/26/2014	<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	<1.0	**0.27 J**	**0.37 J**
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**
Equipment Blank	W-R2330012-12114-JCH-022	12/1/2014	<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**	<1.0	**0.034 J**	<10
Equipment Blank[A]	W-R2330012-12214-JCH-029	12/2/2014											<50	<2.0	<5.0	**1.4 J**	<1.0	<1.0	<10
Equipment Blank	W-R2330012-12214-JCH-029	12/2/2014	<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**	<1.0	<1.0	**0.13 J**
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
Equipment Blank	W-R2330012-020515-ACN-004	2/5/2015	<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	<1.0	<1.0	<10
Equipment Blank[A]	W-R2330017-031615-ACN-008	3/16/2015											<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**
Equipment Blank	W-R2330017-031615-ACN-008	3/16/2015	<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	<1.0	<1.0	**0.30 J**
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**
Equipment Blank	W-R2330017-031715-ACN-014	3/17/2015	<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	<1.0	<1.0	**0.19 J**
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
Equipment Blank	W-R2330017-031915-ACN-022	3/19/2015	<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**	<1.0	<1.0	<10
Equipment Blank[A]	W-R2330017-032015-ACN-031	3/20/2015											<50	<2.0	<5.0	<100	<1.0	<1.0	**0.21 J**
Equipment Blank	W-R2330017-032015-ACN-031	3/20/2015	<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	<1.0	<1.0	**0.21 J**
Equipment Blank[A]	W-R2330017-111615-AEP-024	11/16/2015											<50	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111615-AEP-024	11/16/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1.3 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111715-JPM-025	11/17/2015											**2.7 J**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111715-JPM-025	11/17/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015											**1.8 J**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111815-AFB-026	11/18/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**1.4 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111915-AEP-027	11/19/2015											**1.4 J**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330017-111915-AEP-027	11/19/2015	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	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	**67**	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	**16 J**	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	**91**	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	**71**	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	**5**	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	**28**	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	**48**	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	**7.7 J**	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	**89**	NS	NS	NS	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	<50	NS	NS	NS	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	**7.9 J**	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			Metals													
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
Equipment Blank[A]	W-R2330012-032814-ACN-012	3/28/2014	**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	**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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	<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	**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	<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	<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	<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	<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	<20	**1.1 J**	<5.0	<200	<3.0	<50	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-031915-ACN-022	3/19/2015	<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	<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	<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	<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		**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	<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		**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	<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111815-AFB-026	11/18/2015	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	<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330017-111915-AEP-027	11/19/2015	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	<200	NS	<50	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-041816-AEP-006	4/18/2016	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	**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	**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	**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	**11**	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-103116-AEP-011	11/1/2016	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	**150**	NS	NS	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330021-110316-JPM-028	11/3/2016	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	**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	**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	**93 J**	NS	NS	**4.3 J**	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																	

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)		
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019																	

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
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	**31 J**	NS	NS	NS	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	**24 J**	NS	NS	NS	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	**7.6 J**	NS	NS	NS	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	**7.9 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102317-DMS-007	10/23/2017											**12**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102417-DMS-013	10/24/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102517-AFB-020	10/25/2017											**9.8 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102617-AFB-027	10/26/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102717-AFB-033	10/27/2017											**13**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330022-102817-AFB-039	10/28/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R230024-042318-DMS-008	4/23/2018											**5.5 J**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R230024-042318-DMS-008	4/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**18**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042418-JPM-019	4/24/2018											**6.4 J**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042418-JPM-019	4/24/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**10 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042518-DMS-031	4/25/2018											**3.1 J**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<50	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-042618-DMS-035	4/26/2018											**320**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042618-DMS-035	4/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**20**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102218-JPM-007	10/22/2018											**28**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102218-JPM-007	10/22/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102318-JPM-013	10/23/2018											**5.1**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102318-JPM-013	10/23/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4.1**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102518-SSR-025	10/25/2018											**30**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102518-SSR-025	10/25/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.9**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330024-102618-SSR-030	10/26/2018											**9.5**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-102618-SSR-030	10/26/2018	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-042919-SSR-004	4/29/2019											**20**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-042919-SSR-004	4/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.6 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-043019-SSR-012	4/30/2019											<2.6	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-043019-SSR-012	4/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<2.6	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050119-SSR-019	5/1/2019											**300**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**7.1 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050319-SSR-027	5/3/2019											**1300**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**33**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-050619-SSR-033	5/6/2019											<2.6	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050619-SSR-033	5/6/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**4 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102819-SCD-006	10/28/2019											**60**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-102919-KRM-020	10/29/2019											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102919-KRM-020	10/29/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103019-KRM-028	10/30/2019											<8.0	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			Metals												
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	<300	NS	NS	<50	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330024-042518-DMS-031	4/25/2018	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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**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	**530**	NS	NS	**11**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050119-SSR-019	5/1/2019	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	**2600**	NS	NS	**590**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-050319-SSR-027	5/3/2019	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	<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	<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	**330**	NS	NS	**3.6**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-102819-SCD-006	10/28/2019	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	<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	<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	<50	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
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
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021																	
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021																	
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021																	
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021																	
Equipment Blank	W-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021																	
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022																	
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	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.

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)														
			Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2-Methylnaphthalene	2-Methylphenol	4-Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)			NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)			NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)			NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)			NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)			NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE																	
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021																	
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021																	
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021																	
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021																	
Equipment Blank	W-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021																	
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022																	
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	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.

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			Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)			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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)			NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)			72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)			10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)			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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)			ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE																	
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**9.5 J**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-103119-KRM-033	10/31/2019											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-103119-KRM-033	10/31/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330025-110119-KRM-042	11/1/2019											**21**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330025-110119-KRM-042	11/1/2019	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051820-KRM-006	5/18/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051820-KRM-006	5/18/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**16**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-051920-KRM-012	5/19/2020											**26**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-051920-KRM-012	5/19/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**19**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052020-KRM-026	5/20/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052020-KRM-026	5/20/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052120-KRM-029	5/21/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.5**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052220-KRM-036	5/22/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052220-KRM-036	5/22/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-052720-KRM-040	5/27/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052720-KRM-040	5/27/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110220-KRM-004	11/2/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110220-KRM-004	11/2/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110420-SSR-012	11/4/2020											**23**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110420-SSR-012	11/4/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**8.4**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110520-KRM-019	11/5/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110520-KRM-019	11/5/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110620-KRM-025	11/6/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110620-KRM-025	11/6/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-110920-KRM-031	11/9/2020											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-110920-KRM-031	11/9/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330026-111020-SSR-037	11/10/2020											**22**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-111020-SSR-037	11/10/2020	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	**12**	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021											**9.9 J**	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	13	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022											<8.0	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<8.0	NS	NS	NS	NS	NS	NS

H = Analyzed outside of holding time.
J = Analyte detected below quantitation limit.

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													
			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)			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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)			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)			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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)			NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)			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	SAMPLE ID	SAMPLE DATE														
Equipment Blank	W-R2330025-103019-KRM-028	10/30/2019	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	<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	<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	**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	<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	<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	**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	<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	<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	<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	<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	<50	NS	NS	**3**	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330026-052120-KRM-029	5/21/2020	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	<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	<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	<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	<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	<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	<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	**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	<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	<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	<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	<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	<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	<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	<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	**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	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041221-KRM-004	4/12/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041321-KRM-016	4/13/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	**91**	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041421-KRM-028	4/14/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041521-KRM-028	4/15/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	78 J	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-041621-KRM-036	4/16/2021	NS	NS	NS	<50	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank[A]	W-R2330027-042722-SSR-026	4/27/2022	NS	NS	NS	<80	NS	NS	<2.5	NS	NS	NS	NS	NS	NS	NS
Equipment Blank	W-R2330027-042722-SSR-026	4/27/2022	NS	NS	NS	<50	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
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
Residential Health-Based Drinking Water Value (E)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	700	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
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
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)
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)	4.3E+06	7,600	76	1,100	8.2E+06	27	NA	2,400	1,100	44,000	NA	140	1,900	NA	NA	700 (d)	10
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
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
ID / SAMPLE ID / SAMPLE DATE																	

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

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)													
	Methylcyclohexane	Toluene	Xylenes	1,1-Biphenyl	2-Chlorophenol	2- Methylnaphthalene	2- Methylphenol	4- Methylphenol	2,4-Dimethylphenol	4-Chloroaniline	Bis(2-ethylhexyl)phthalate	Acenaphthene	Acetophenone	Benzaldehyde	Butyl benzyl phthalate	Caprolactam	Carbazole
Residential Drinking Water Criteria (II)	NA	790 (E)	280 (E)	ID	45	260	370	370	370	NA	6.0 (A)	1,300	1,500	NA	1,200	5,800	85
Residential Health-Based Drinking Water Value (E)	NA	1,000	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)	NA	270	41	ID	18	19	30 (M); 25	30 (M); 25	380	NA	25	38	ID	NA	67	NA	10 (M); 4.0
GSI Final Acute Value (FAV)	NA	2,600	730	ID	NA	340	1,400	1,400	2,700	ID	285	200	NA	NA	630	ID	72
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)	NA	5.3E+5 (S)	1.9E+05 (S)	ID	490,000	25,000 (S)	NLV	NLV	NLV	NA	NLV	4,200 (S)	6.1E+06 (S)	NA	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)	NA	36,000	10,000 (d)	ID	78,000	940	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NLV
Water Solubility (VII)	NA	5.26E+05	1.86E+5 (S)	ID	2.20E+07	24,600	2.80E+07	2.80E+07	7.87E+06	NA	340	4,240	6.1E+06 (S)	NA	2.7E+03	5.25E+09	7,480
Flammability & Explosivity Screening Level (VIII)	NA	61,000	70,000	ID	ID	ID	NA	NA	ID	NA	NA	ID	ID	NA	ID	NA	ID
ID	SAMPLE ID	SAMPLE DATE															

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

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	Dibenzofuran	Diethyl phthalate	Dimethyl phthalate	Di-n-butyl phthalate	Fluoranthene	Fluorene	Naphthalene	Phenanthrene	Pyrene	Phenol	Aluminum	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium
Residential Drinking Water Criteria (II)	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)	4.0 (A)	5.0 (A)	100 (A)
Residential Health-Based Drinking Water Value (E)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)	4	110	110	9.7	1.6	12	11	2.0 (M); 1.4	ID	450	NA	130	10	670 (G)	6.7 (G)	3 (G)	11
GSI Final Acute Value (FAV)	72	2.0E+03	NA	75	220	220	200	11	ID	6,800	NA	2,300	680	3,844 (G)	120	13 (G)	1,588
Groundwater Volatilization to Indoor Air Inhalation Criteria (V)	10,000 (S)	NLV	NLV	NLV	210 (S)	2,000 (S)	31,000 (S)	1,000 (S)	140 (S)	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)	2.30E+01	NA	NA	NA	NA	7.1E+04	240	110	410	NA	NLV	NLV	NLV	NLV	NA	NLV	NLV
Water Solubility (VII)	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	NA	NA	NA
Flammability & Explosivity Screening Level (VIII)	ID	NA	NA	NA	ID	ID	NA	ID	ID	NA	ID	ID	ID	ID	ID	ID	ID
ID	SAMPLE ID	SAMPLE DATE															

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

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													
	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)	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	1,400	NA	2,000	NA	NA	860	NA	NA	NA	NA	NA	NA	NA
Ground Water Surface Water Interface Criteria (GSI) (III)	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)	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	56 (S)	NLV	NLV	NLV	NLV	NLV	NLV
Groundwater Concentration for Vapor Intrusion ($GW_{VI\text{-}res}$) (a)	NLV	NLV	NA	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV	NLV
Water Solubility (VII)	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	SAMPLE ID	SAMPLE DATE												

Well ID	Total Depth of Well from TOC[3] (feet)	Total Depth of Well from TOC[3] (feet) 4/25/2022-4/28/2022	Estimated Sediment Accumulation
MW-1	No Data	No Data	No Data
MW-3	14.80	13.50	1.30
MW-4	21.60	21.88	-0.28
MW-5	30.02	29.82	0.20
MW-6	16.38	16.15	0.23
MW-7	8.81	8.9	-0.09
MW-8	No Data	No Data	No Data
MW-9	14.81	14.71	0.10
MW-10	23.45	23.45	0.00
MW-11	18.12	18.05	0.07
MW-12	18.66	17.65	1.01
MW-13	No Data	No Data	No Data
MW-14	No Data	No Data	No Data
MW-15	No Data	No Data	No Data
MW-16	No Data	No Data	No Data
MW-17	17.84	14.6	3.24
MW-18	16.66	16.36	0.30
MW-19	14.63	13.28	1.35
MW-20	15.47	14.88	0.59
MW-21	15.36	14.53	0.83
MW-22	15.42	14.79	0.63
MW-23	15.74	14.97	0.77
MW-24	No Data	No Data	No Data
MW-25	16.52	16.13	0.39
MW-26	17.19	16.25	0.94
MW-27	13.97	13.9	0.07
MW-28	No Data	No Data	No Data
MW-29	12.22	11.6	0.62
MW-30	12.36	12.43	-0.07
MW-31	8.99	8.90	0.09
MW-32	9.5	8.29	1.21
MW-33	18.59	18.05	0.54
MW-34	18.89	13.37	5.52
MW-35	10.48	No Data	No Data
MW-36	10.29	No Data	No Data
CRA-265M	13.90	No Data	No Data
CRA-266M	12.10	12.12	-0.02
CRA-833M	17.05	No Data	No Data
CRA-834M	ND	No Data	No Data

FIGURES



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
- F_t EXISTING FIBER OPTIC CABLE
- W EXISTING FIRE WATER
- W EXISTING WATER MAIN
- 711 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-1, MW-8, MW-13, MW-14, MW-15, MW-16, MW-24, MW-28, CRA-265M, CRA-833M & CRA-834M WAS NOT USED IN CONTOURING.
4. MW-35 & MW-36 WERE ABANDONED IN JANUARY 2021.

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

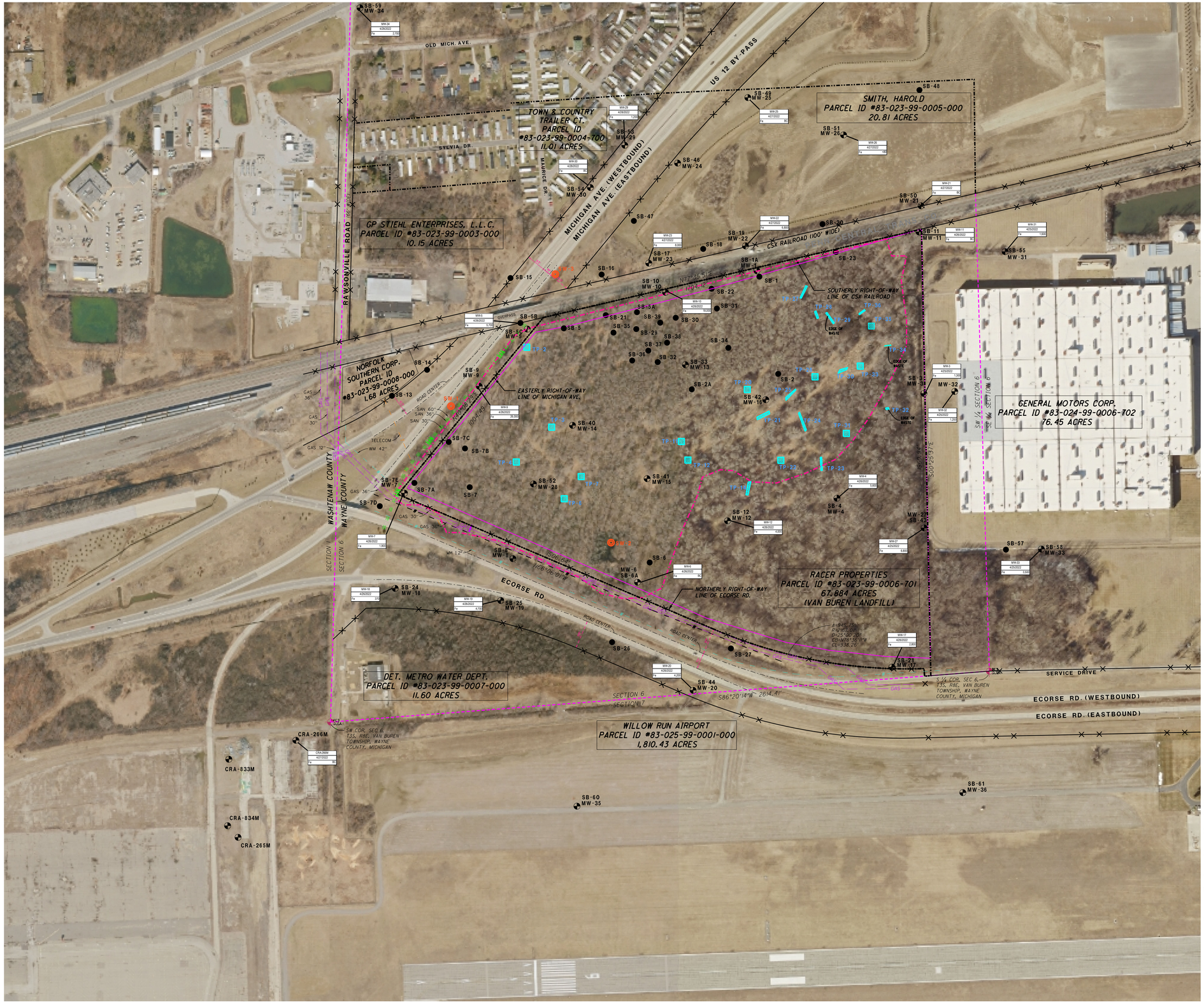
RACER

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

FIGURE 2
GROUNDWATER ELEVATION CONTOUR MAP (APR. 2022)

6/7/2022

W:\Projects\Projects P-T\R2330027\CAD\SURVEY\R2330027-GW_Fig2_GW_Flow_Apr-22.dgn



GRAPHIC SCALE

0' 200' 400'

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

Fe = Dissolved Iron

LEGEND

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

GENERAL NOTES:

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

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

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

Revitalizing Auto Communities Environmental Response Trust

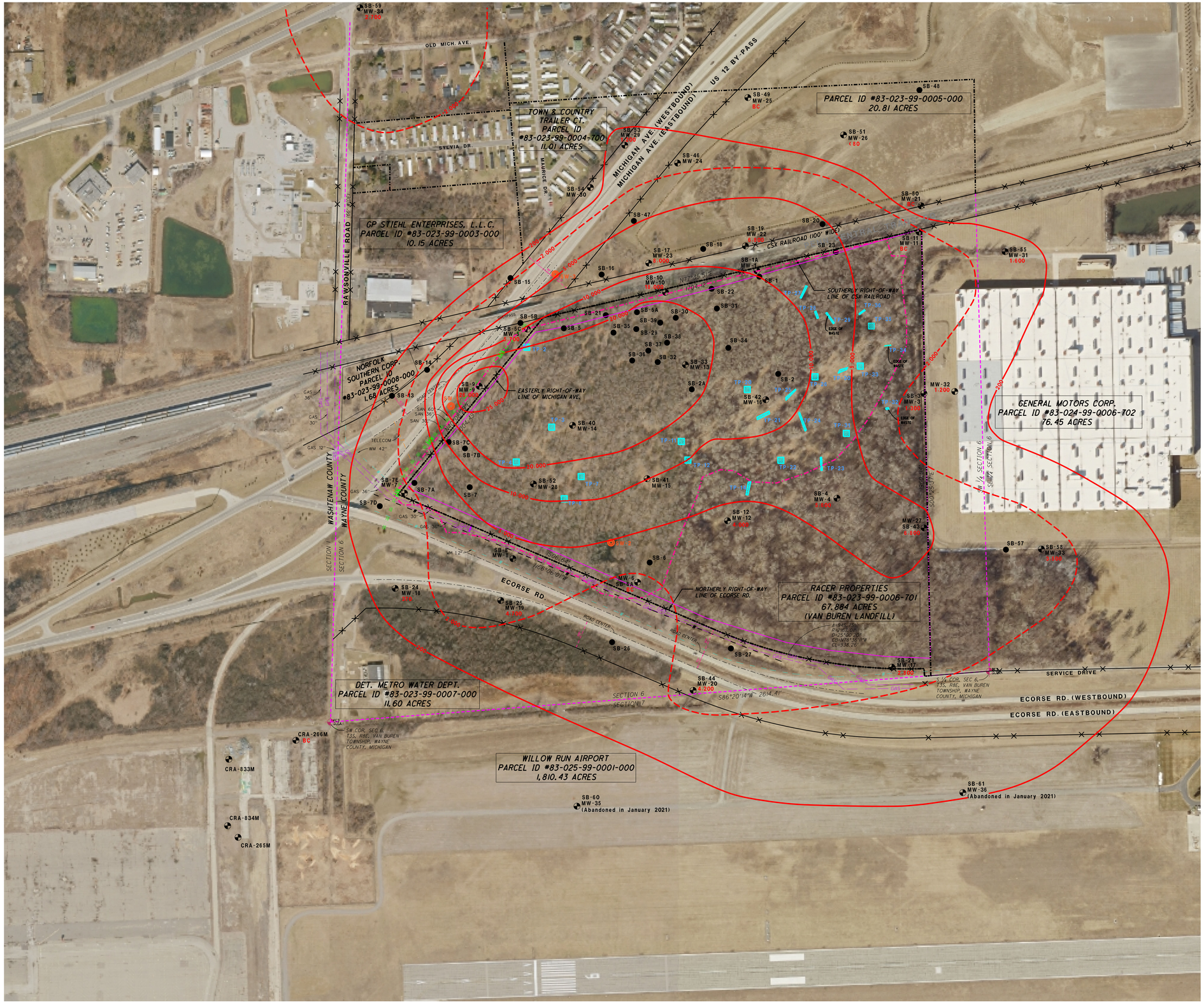
RACER

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

FIGURE 3
MONITORING WELL ANALYTICAL SUMMARY THROUGH APRIL 2022
SEMI-ANNUAL GROUNDWATER MONITORING (EXCEEEDENCES ONLY)

6/23/2022

W:\Projects\Projects P-T\R2330027\CAD\BASE\2022 Files\R2330027.MW_Analytical_Summary FIG_3-April_2022.dgn



GRAPHIC SCALE
0' 200' 400'

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

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
- BC BELOW CRITERIA
- 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 2020.
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 RESIDENTIAL HEALTH-BASED DRINKING WATER CRITERIA ARE SHOWN.
6. ONLY EXCEEDENCES OF DISSOLVED METALS ARE SHOWN. THERE ARE EXCEEDENCES OF TOTAL METALS NOT DISPLAYED IN THE FIGURE (REFER TO TABLE).

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

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

Revitalizing Auto Communities Environmental Response Trust

RACER

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

FIGURE 4
DISSOLVED IRON
ISOCONCENTRATION MAP
(APRIL 2022)

6/23/2022

W:\Projects\Projects P-T\R2330027\CAD\BASE\2022 Files\R2330027_Dissolved_Iron_Isoconcentration_Map_April_2022.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: 4/28/22

PERSONNEL: SSR

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-34

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 13.37

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT: bladder pump, horiba, WLM

DEPTH TO WATER LEVEL: 3.68

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1650										
1700	3.52	51.8	7.45	-60	1.58	873	1.67	0.3		
1705	3.52	52.4	7.46	-73	1.59	744	1.60	0.4		
1710	3.52	53.2	7.46	-80	1.58	442	1.57	0.5		
1715	3.52	53.4	7.46	-81	1.58	440	1.51	0.6		
1720	3.52	53.4	7.47	-82	1.58	437	1.49	0.7		

SAMPLE ID: W-R2330027-042822-SSR-031

SAMPLE DATE: 4/28/22

SAMPLE TIME: 1720

Notes: EQUIP BLANK

W-R2330027-042822-SSR-032

[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: 4/28/22

PERSONNEL: SSR

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-30

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 12.43

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT: bladder pump, horiba, WLM

DEPTH TO WATER LEVEL: 3.28

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1415										
1425	3.84	53.8	7.68	140	0.504	221	1.95	0.2		
1430	4.19	53.7	7.67	108	0.501	121	1.67	0.3		
1435	4.38	54.4	7.70	74	0.499	99	1.57	0.4		
1440	4.68	54.7	7.66	57	0.500	80	1.53	0.5		
1445	4.93	55.1	7.69	48	0.496	49.9	1.51	0.6		
1450	5.06	55.2	7.71	43	0.495	45.3	1.48	0.7		
1455		55.7	7.72	41	0.493	42.3	1.44	0.8		

SAMPLE ID: W-R2330027-042822-SSR-028

SAMPLE DATE: 4/28/22

SAMPLE TIME: 1455

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: 4/28/22

PERSONNEL: SSR

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-29

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 11.60

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT: bladder Pump, horiba, WLM

DEPTH TO WATER LEVEL: 4.15

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1305										
1315	4.23	56.2	7.45	175	0.000	376	10.94	0.3		
1320	4.23	57.2	7.61	36	0.745	484	4.17	0.4		
1325	4.30	57.5	7.57	-18	0.746	431	3.50	0.5		
1330	4.30	58.3	7.56	-50	0.746	319	2.48	0.6		
1335	4.30	58.9	7.60	-57	0.744	264	2.10	0.7		
1340	4.30	58.9	7.61	-56	0.744	265	2.15	0.8		
1345	4.30	59.3	7.59	-55	0.741	254	2.04	0.9		

SAMPLE ID: W-R2330027-042822-SSR027

SAMPLE DATE: 4/28/22

SAMPLE TIME: 1345

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: 4/28/22

PERSONNEL: SSR

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-20

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 14.88

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT: Bladder Pump, horiba, WLM

DEPTH TO WATER LEVEL: 4.80

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1515										
1525	4.80	57.0	7.31	-45	2.30	0.0	1.49	0.2		
1530	4.80	56.9	7.31	-54	2.33	0.0	1.34	0.3		
1535	4.80	56.6	7.30	-58	2.34	0.0	1.38	0.4		
1540	4.80	56.4	7.25	-59	2.33	0.0	1.26	0.5		

SAMPLE ID: W-R2330027-042822-SSR-029

SAMPLE DATE: 4/28/22

SAMPLE TIME: 1540

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: 4/28/22

PERSONNEL: SSR

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-19

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: Sunny, 48°F

DEPTH OF WELL: 13.28

SCREEN LENGTH:

TUBING TYPE:

DEPTH TO WATER LEVEL: 2.10

WELL DIAMETER:

CASING TYPE:

MONITORING EQUIPMENT: Bladder Pump, horiba, NLM

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1555										
1605	2.14	48.2	7.31	-45	7.97	915	1.33	0.2		
1610	2.14	47.9	7.30	-50	8.07	529	1.22	0.3		
1615	2.14	47.9	7.32	-54	8.09	365	1.22	0.4		
1620	2.14	47.4	7.32	-57	8.13	302	1.23	0.5		
1625	2.14	47.4	7.32	-58	8.13	309	1.19	0.6		
1630	2.14	47.4	7.32	-58	8.12	297	1.20	0.7		

SAMPLE ID: W-R2330027-042822-SSR-030

SAMPLE DATE: 4/28/22

SAMPLE TIME: 1630

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: 4/27/22

SAMPLE LOCATION: RACER VBL MW-22

PERSONNEL: SSR

OBSERVERS:

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 14.79

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT:

DEPTH TO WATER LEVEL: 4.89

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1520										
1530	4.92	45.3	7.43	-53	1.07	178	10.95	0.5		
1535	4.92	45.3	7.43	-57	1.10	130	10.96	0.7		
1540	4.92	45.2	7.36	-56	1.14	120	10.59	0.9		
1545	4.92	45.3	7.38	-56	1.04	124	10.51	1.1		

SAMPLE ID: WI-R2330027-042722-SSR-023

SAMPLE DATE: 4/27/22

SAMPLE TIME: 1545

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: 4/27/22

PERSONNEL: SSR

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-23

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 14.97

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT:

DEPTH TO WATER LEVEL: 6.86

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1308										
1315	6.99	45.4	7.12	-50	1.71	31.8	6.43			
1320	6.99	45.3	7.11	-49	1.71	27.6	6.60			
1325	6.99	45.3	7.12	-49	1.69	25.3	6.63			

SAMPLE ID: W-R2330027-042722-SSR-021

SAMPLE DATE: 4/27/22

SAMPLE TIME: 1325

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: 4/27/22

SAMPLE LOCATION: RACER VBL MW-25

PROJECT #: R2330027

PERSONNEL: SSR

OBSERVERS:

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 16.13

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT:

DEPTH TO WATER LEVEL: 6.57

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1215										
1225	6.87	51.2	7.08	155	0.889	98.1	9.31	0.8		
1230	6.87	51.2	7.13	150	0.894	89.1	8.99	1		
1235	6.87	51.5	7.16	140	0.889	67.2	9.18	1.2		
1240	6.87	51.5	7.18	134	0.850	56.9	8.90	1.5		
1245	6.87	51.3	7.15	130	0.883	55.9	7.01			
1250	6.87	51.2	7.07	123	0.884	54.0	7.01			
1255	6.87	51.3	7.06	121	0.874	57.7	7.01			

SAMPLE ID: W-R2330027-042722-SSR-020

SAMPLE DATE: 4/27/22

SAMPLE TIME: 1255

Notes: MW24 DTW 7.83 DTB 14.34

[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: RACER VBL MW-26

DATE: 4/27/22

PROJECT #: R2330027

PERSONNEL: SSR

SITE NAME:

OBSERVERS:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 16.25

DEPTH TO WATER LEVEL: 6.80

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1335										
1345	7.06	46.7	7.49	97	0.062	96.7	11.47	0.5		
1350	7.06	46.7	7.43	103	0.068	100	11.44	0.7		
1355	7.06	46.8	7.33	103	0.061	104	11.49	0.9		

SAMPLE ID: W-R2330027-042722-SSR-022

SAMPLE DATE: 4/27/22

SAMPLE TIME: 1355

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: RACER VBL CRA-266M

DATE: 4/27/22

PROJECT #: R2330027

PERSONNEL: SSR

SITE NAME:

OBSERVERS:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 12.20

DEPTH TO WATER LEVEL: 3.30

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1030										
1040	3.52	52.8	6.98	143	0.958	0.0	11.81			
1045	3.52	52.4	6.97	132	0.954	0.0	9.89			
1050	3.52	52.4	6.97	116	0.942	0.0	9.89			
1055	3.52	52.4	6.97	119	0.940	0.0	9.89			
1100	3.52	52.4	6.97	114	0.940	0.0	9.89			

SAMPLE ID: W-R2330027-042722-SSR-019

SAMPLE DATE: 4/27/22

SAMPLE TIME: 1100

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: 4/27/22

SAMPLE LOCATION: MW-21

PERSONNEL: SSR

OBSERVERS: _____

PROJECT #: R2330027

SITE NAME: RACER - Van Buren Landfill

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

SITE CONDITIONS: _____

DEPTH OF WELL: 14.53

SCREEN LENGTH: _____

TUBING TYPE: Teflon Line PE

DEPTH TO WATER LEVEL: 6.06

WELL DIAMETER: _____

CASING TYPE: _____

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

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	COND. (µS/cm)	DO (mg/L)[1]	Ph	ORP (mV)	TURB. (NTU)[2]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 3%	+/- 10%	+/- 0.1	+/- 10 mV	+/- 10%			
1605										
1615	6.00	46.7	0.569	8.77	7.50	-5	500	0.5		
1620	6.00	46.7	0.568	8.69	7.50	-2	497	0.7		
1625	6.00	46.7	0.563	8.70	7.50	-1	492	0.9		

SAMPLE ID: W-R2330027-042722-SSR-024

SAMPLE DATE: 4/27/22

SAMPLE TIME: 1625

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: 4/26/22

PERSONNEL:

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-11

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 18.05

SCREEN LENGTH:

TUBING TYPE:

DEPTH TO WATER LEVEL: 7.23

WELL DIAMETER:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1630	7.25	46.8	7.43	170	0.805	336	11.13	0.4		
1635	7.25	46.7	7.55	175	0.789	358	11.87	0.6		
1640	7.25	46.5	7.60	177	0.806	133	11.89	0.8		
1645	7.25	46.5	7.58	178	0.798	51.9	11.80	1		
1650	7.25	46.5	7.57	174	0.812	44.3	11.80	1.2		
1655	7.25	46.4	7.58	166	0.816	230	11.81	1.4		
1700	7.25	46.6	7.56	148	0.816	104	11.67	1.6		
1705	7.25	46.7	7.56	136	0.832	102	11.55	1.8		
1710	7.25	46.6	7.57	138	0841	100	11.65			

SAMPLE ID: W-R2330027-042622-ADP-017

SAMPLE DATE: 4/26/22

SAMPLE TIME: 1710

Notes: EQUIP Blank
W-R2330027-042622-SSR-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

LOW FLOW GROUND WATER SAMPLING FORM

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

DATE: 4/25/22

PERSONNEL: ADH

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-3

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: RAINY 60°F

DEPTH OF WELL: 13.50

SCREEN LENGTH:

TUBING TYPE:

DEPTH TO WATER LEVEL: 4.50

WELL DIAMETER:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1400	4.10	48.2	6.88	-29	1.72	96.5	26.8	1		
1410	4.10	48.6	6.90	-25	1.58	58.1	23.7	1.25		
1415	4.10	48.3	6.90	-28	1.58	40.4	22.0	1.5		
1420	4.10	48.3	6.94	-34	1.57	25.4	21.5	2		
1425	4.10	48.4	6.93	-36	1.56	16.4	2.31	3		
1430	4.10	48.5	6.92	-38	1.56	10.8	2.28	3.5		
1435	4.10	48.5	6.90	-39	1.56	7.3	2.22	4		
1440	4.10	48.4	6.90	-40	1.56	5.8	2.22	4.5		
1445	4.10	48.4	6.90	-42	1.55	3.7	2.21	5		
1450	4.10	48.4	6.89	-43	1.55	4.0	2.17	5.5		
1455	4.10	48.2	6.89	-44	1.5	3.6	2.18	6		
1500										

SAMPLE ID: W-R2330027-042522-ADH-004

SAMPLE DATE: 4/25/22

SAMPLE TIME: 1455

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: ~~TRACER VBL~~ MW-32

DATE: 4/25/22

PROJECT #: R2330027

PERSONNEL: ADP, ADH, SSR

SITE NAME: Tracer UST

OBSERVERS:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 8.29

DEPTH TO WATER LEVEL: 6.62

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT: Horiba, Bladder Pump, Water Level meter
Duralast Battery

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
12:30		56.4	6.98	12	1.1	202	57.2			
12:35		54.8	7.01	23	1.06	623	42.7			
12:40		54.0	6.96	30	1.02	496	46.8			
		53.5	6.98	32	.983	400	44.7			

SAMPLE ID: MW-32 W-R2330027-042522-ADH-002

SAMPLE DATE: 4/25/22

SAMPLE TIME:

Notes: Start @ 12:00

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

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

LOW FLOW GROUND WATER SAMPLING FORM

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

SAMPLE LOCATION: RACER VBL MW-33

DATE: 4/25/22

PROJECT #: R2330027

SITE NAME:

PERSONNEL: SSR

SITE ADDRESS:

OBSERVERS:

SITE CONDITIONS:

2149089214

DEPTH OF WELL: 18.05

DEPTH TO WATER LEVEL: 4.00

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1530										
1540	1.65	49.2	7.27	-62	2.12	77.2	1.89	1		
1545	1.65	49.5	7.27	-64	2.13	79.0	1.88	1.2		
1550	1.65	51.6	7.25	-70	2.13	71.4	1.85	1.4		
1555	1.65	52.1	7.24	-71	2.13	70.3	1.79	1.6		
1600	1.65	52.6	7.24	-73	2.14	74.1	1.83	1.8		

SAMPLE ID: N-R2330027-042522-SSR-003

SAMPLE DATE: 4/25/22

SAMPLE TIME: 1600

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: RACER VBL MW-27

DATE: 4/25/22

PROJECT #: R2330027

SITE NAME:

PERSONNEL: ADP

SITE ADDRESS:

OBSERVERS:

SITE CONDITIONS:

DEPTH OF WELL: 13.90

DEPTH TO WATER LEVEL: 4.10

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1410										
1420	2.68	47.1	7.00	-43	1.95	57.8	6.27	0.4		
1425	2.68	46.5	7.01	-54	1.97	45.5	3.75	0.6		
1430	2.68	46.5	7.02	-60	1.97	37.3	2.96	0.8		
1435	2.68	46.6	7.03	-65	1.98	38.0	2.51	1		
1440	2.68	46.6	7.02	-66	1.99	35.6	2.45	1.2		

SAMPLE ID: W-R2330027-042522-ADP-005

SAMPLE DATE: 4/25/22

SAMPLE TIME: 1440

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: RACER VBL MW-6

DATE: 4/26/22

PROJECT #: R2330027

SITE NAME:

PERSONNEL: SSR

SITE ADDRESS:

OBSERVERS:

SITE CONDITIONS:

DEPTH OF WELL: 16.15

DEPTH TO WATER LEVEL: 4.43

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1020										
1030	4.58	47.2	7.26	165	0.815	3.0	8.79	1		
1035	4.38	47.2	7.16	195	0.826	0.0	7.33	1.5		
1040	4.38	46.9	7.14	197	0.830	0.0	7.13	2		
1045	4.38	46.9	7.13	203	0.834	0.0	7.02	2.5		

SAMPLE ID: W-R2330027-042622-SSR-007

SAMPLE DATE: 4/26/22

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: 4/26/22

PERSONNEL: ADP

OBSERVERS:

SAMPLE LOCATION: RACER VBL MW-18

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH OF WELL: 16.36

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT:

DEPTH TO WATER LEVEL: 0.86

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1500		47.8	6.94	3	2.45	60.8	0.78			
1505		48.1	6.99	-5	2.39	1000	0.65			
1510		47.9	6.97	-5	2.34	802	0.62			
1515		47.6	6.94	-4	2.31	680	0.58			
1520		47.6	6.92	-2	2.30	676	0.56			
1525		47.6	6.90	0	2.29	670	0.56	1.0		

SAMPLE ID: W-R2330027-042622-ADP-014

SAMPLE DATE: 4/26/22

SAMPLE TIME: 1530

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: RACER VBL MW-17

4/26/22

PROJECT #: R2330027

SITE NAME:

ERSONNEL:

SITE ADDRESS:

OBSERVERS:

SITE CONDITIONS:

DEPTH OF WELL: 14.60

DEPTH TO WATER LEVEL: 5.00

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1500										
1510	5.00	46.6	6.96	-42	2.49	0.0	1.91	1		
1515	5.00	46.5	6.94	-43	2.46	524	2.14	1.5		
1520	5.00	46.4	6.93	-42	2.46	496	2.15	2		
1525	5.00	46.4	6.93	-42	2.44	478	2.17	2.5		

SAMPLE ID: W-R2330027-042622-SSR-015

SAMPLE DATE: 4/26/22

SAMPLE TIME: 1525

Notes: * Dup taken here
W-R2330027-042622-SSR-016

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

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

LOW FLOW GROUND WATER SAMPLING FORM

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

SAMPLE LOCATION: RACER VBL MW-31

DATE: 4/25/22

PROJECT #: R2330027

PERSONNEL: SSR, ADH, ADP

SITE NAME:

OBSERVERS:

SITE ADDRESS:

SITE CONDITIONS: Overcast 60°F

DEPTH OF WELL: 8.90"

DEPTH TO WATER LEVEL: 1.5"

SCREEN LENGTH:

WELL DIAMETER:

TUBING TYPE:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1140										
1150		46.2	6.81	-13	0.681	0.0	1.90	2		
1155		46.2	6.79	-14	0.681	0.0	1.91	2.3		
1200		46.2	6.80	-14	0.682	0.0	1.91	2.6		
1205		46.2	6.79	-14	0.683	0.0	1.90	3		

SAMPLE ID: W-R2330027-042522-SSR-001

SAMPLE DATE: 4/25/22

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: RACER VBL MW-7

DATE: _____

PROJECT #: R2330027

SITE NAME: _____

PERSONNEL: _____

SITE ADDRESS: _____

OBSERVERS: _____

SITE CONDITIONS: _____

DEPTH OF WELL: 8.9 BL

DEPTH TO WATER LEVEL: 2.95 BL

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: _____

CASING TYPE: _____

MONITORING EQUIPMENT: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
14:45		47.3	7.16	-9	2.14	62.9	5.98			
14:50		46.7	7.13	-67	2.23	32.6	6.47			
14:55		47.0	7.19	-73	2.23	21.0	6.78			
15:00		46.8	7.29	-68	2.20	19	6.82			
15:05		46.4	7.28	-51	2.21	15.8	6.77			
15:10		46.1	7.32	-58	2.23	15.6	6.82			
15:15		45.7	7.37	-53	2.26	15.1	7.09			

SAMPLE ID: W-R2330027-042622-ADH-013

SAMPLE DATE: _____

SAMPLE TIME: 1515

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: 4/26/22

PERSONNEL: ADP

OBSERVERS:

DEPTH OF WELL: 21.88

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT: WLM, Horiba, Bladder Pump

SAMPLE LOCATION: RACER VBL MW-4

PROJECT #: R2330027

SITE NAME: RACER

SITE ADDRESS:

SITE CONDITIONS: Cloudy

DEPTH TO WATER LEVEL: 10.29

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1110	10.31	46.1	6.63	51	3.13	29.9	2.86			
1115	10.31	46.1	6.66	18	3.17	26.5	2.48			
1120	10.31	46.1	6.70	-16	3.17	9.3	2.38			
1125	10.31	45.6	6.69	-30	3.17	5.8	2.40			
1130	10.31	45.9	6.70	-34	3.17	4.3	2.41			
1135	10.31	45.9	6.70	-40	3.17	0.9	2.36			
1140	10.31	45.9	6.71	-43	3.16	(1)	2.36	1.0		

SAMPLE ID: W-R2330027-042622-ADP-008

SAMPLE DATE: 4/26/22

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: 4/26/22

PERSONNEL: SSR

OBSERVERS:

DEPTH OF WELL: 17.65

SCREEN LENGTH:

TUBING TYPE:

SAMPLE LOCATION: RACER VBL MW-12

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS: Overcast 45°F

DEPTH TO WATER LEVEL: 7.41

WELL DIAMETER:

CASING TYPE:

MONITORING EQUIPMENT:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1115										
1125	7.71	47.3	6.66	217	1.05	0.0	6.23	1		
1130	7.71	46.7	6.80	33	1.48	348	6.56	1.5		
1135	7.71	46.6	6.94	-4	1.64	166	6.59	2		
1140	7.71	46.6	6.94	-6	1.65	163	6.60	2.5		
1145	7.71	46.6	6.95	-10	1.66	147	6.54	3		

SAMPLE ID: W-R2330027-042622-SSR-009

SAMPLE DATE: 4/26/22

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: 4/26/22

PERSONNEL: ADP

OBSERVERS:

DEPTH OF WELL: 23.45

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT:

SAMPLE LOCATION: RACER VBL MW-10

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH TO WATER LEVEL: 13.51

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
1235	13.53	48.7	6.66	-45	3.02	856	3.20			
1240	13.53	48.5	6.67	-60	3.01	761	2.86			
1245	13.53	48.5	6.68	-66	3.01	496	2.62			
1250	13.53	48.5	6.69	-69	3.01	456	2.55			
1255	13.53	48.4	6.70	-72	3.00	448	2.47	1.0		

SAMPLE ID: W-R2330027-042622-ADP-010

SAMPLE DATE: 4/26/22

SAMPLE TIME: ~~1250~~ 1300

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: RACER VBL MW-5

DATE: _____

PROJECT #: R2330027

SITE NAME: _____

PERSONNEL: _____

SITE ADDRESS: _____

OBSERVERS: _____

SITE CONDITIONS: _____

DEPTH OF WELL: 29.82

DEPTH TO WATER LEVEL: 8.43

SCREEN LENGTH: _____

WELL DIAMETER: _____

TUBING TYPE: _____

CASING TYPE: _____

MONITORING EQUIPMENT: _____

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C)	Ph	ORP (mV)	COND. (mS/cm)	TURB. (NTU)[2]	DO (mg/L)[1]	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
		+/- 3%	+/- 0.1	+/- 10 mV	+/- 3%	+/- 10%	+/- 10%			
12:35		49.5	7.19	-41	2.99	557	4.61			
12:40		51.0	7.25	-70	3.21	482	3.69			
12:45		51.4	7.23	-84	3.22	270	3.13			
12:50		51.3	7.33	-85	3.22	215	3.10			
12:55		51.6	7.33	-89	3.22	201	3.08			

SAMPLE ID: W-R2330027-042622-ADH-011

SAMPLE DATE: 1255

SAMPLE TIME: 4/26/22

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: 4/26/22

PERSONNEL: SSR

OBSERVERS:

DEPTH OF WELL: 14.71

SCREEN LENGTH:

TUBING TYPE:

MONITORING EQUIPMENT:

SAMPLE LOCATION: RACER VBL MW-9

PROJECT #: R2330027

SITE NAME:

SITE ADDRESS:

SITE CONDITIONS:

DEPTH TO WATER LEVEL: 7.09

WELL DIAMETER:

CASING TYPE:

TIME	WATER LEVEL (<0.3 feet once stabilized)	TEMP. (°F/°C) +/- 3%	Ph +/- 0.1	ORP (mV) +/- 10 mV	COND. (mS/cm) +/- 3%	TURB. (NTU)[2] +/- 10%	DO (mg/L)[1] +/- 10%	VOLUME PURGED (Gallons)	PUMP RATE (ml/min)	NOTES
1256										
1300	7.45	53.1	6.21	-60	2.44	39.5	1.14	0.3		
1305	7.45	52.9	6.32	-70	2.44	27.4	1.30	0.5		
1310	7.45	52.5	6.36	-78	2.45	26.7	0.98	0.7		
1315	7.45	52.1	6.38	-83	2.47	7.2	0.88	0.9		
1320	7.45	51.7	6.40	-86	2.49	7.9	0.81	1.1		
1325	7.45	51.4	6.42	-89	2.50	8.2	0.78	1.3		

SAMPLE ID: W-R2330027-042622-SSR-012

SAMPLE DATE: 4/26/22

SAMPLE TIME: 1325

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

* Dup of MW-26

1240 W-R2330027-102021-SSR-019

1422 W- JPM - 014 (mw-8)

1355 W-R2330027-102021-SSR-021 MW-10

W-R2330027-102021-JPM-016 (EQ Blank

10/21/21

1455 W-R2330027-102121-SSR015

1555 W-R2330027-102121-SSR-023

1530 W-R2330027-102121-SSR-025 (EQB:

10/22/21 GW SAMPLING

900 MSG ON SITE

SSR, RA, JPH; Ethan

915 PICK UP ATV - mo8 to mw-1; Begin Brush Clearing around mw-1, mw-5, mw-9

mw-1 clogged; Broken - can't put Bladder down well

SAMPLED

mw-5	1109	018
mw-9	1240	020
mw-19	1435	035
mw-17	1420	022
mw-30	1220	027
mw-29	1125	029
mw-20	1120	031
mw-18	1355	033
mw-13	1655	

DUP 2 collected @ MW-17 022/

EQUIP Blank 026 1441

1500 MSG OFF SITE

4/26/22 MSG onsite @ 6m @ 900

W-R2330027-042522-SSR-001

1205 Sampled: MW-31

1300 Sampled: MW-32

WR2330027-042522-ADH-002

1600 Sampled: MW33

WR2330027-042522-SSR-003

1455 Sampled: MW3

W-R2330027-042522-ADH-004

1440 Sampled: MW27

W-R2330027-042522-ADP-005

MSG off site @ 515pm *=006€blank

MSG on site @ 900 4/26/22

1045 SAMPLED: MW-6

W-R2330027-042622-SSR-007

1145 SAMPLED: MW-4

W-R2330027-042622-ADP-008

1145 SAMPLED: MW-12
W-R2330027-042622-SSR-009

1305 SAMPLED: MW-10
W-R2330027-042622-ADP-010

1255 SAMPLED: MW-5
W-R2330027-042622-ADH-011

1325 SAMPLED: MW-9
W-R2330027-042622-SSR-012

MW-28 DTW: 10.30'
DTB: 22.63'
MW-13 DTW: 13.65'
DTB: 22.00'
MW-14 DTW: 13.80'
DTB: 17.50'
MW-15 DTW: 12.05'
DTB: 16.36'
MW-16 DTW: 11.00'
DTB: 16.70'

1515 SAMPLED: MW-7
W-R2330027-042622-ADH -013

1530 SAMPLED: MW-18
W-R2330027-042622-ADP -014

1525 SAMPLED: MW-17
W-R2330027-042622-SSR -015

1525 SAMPLED: DUP MW-17
W-R2330027-042622-SSR -016

1710 SAMPLED: MW11
W-R2330027-042622-ADP -017

1800 SAMPLED: EQUIP BLANK
W-R2330027-042622-SSR -018

MSG off site @ 530
4/27/22 MSG @ center for mobility @ 1000

1100 SAMPLED: CRA-266M
W-R2330027-042722-SSR-019

CRA-265M DTW:
DTB:
(inside test track fence??)
CRA-833M DTW: 6.76
DTB: 16.50
CRA-834M DTW: 6.41
DTB: 14.85

MSG on Subaru site at 1200

1255 SAMPLED: MW-25
W-R2330027-042722-SSR-020

1325 SAMPLED: MW-23 *VOCs
W-R2330027-042722-SSR-021

1355 SAMPLED: MW-26
W-R2330027-042722-SSR-022

1545 SAMPLED: MW-22
W-R2330027-042722-SSR-023

1625 SAMPLED: MW-21
W-R2330027-042722-SSR-024
W-R2330027-042722-SSR-025 DUP

1800 SAMPLED: EQUIP BLANK
W-R2330027-042722-SSR-026

MSG OFF SITE @ 1700

MSG on Site @ 1200

1345 SAMPLED: MW-29
W-R2330027-042822-SSR-027

1455 SAMPLED: MW-30
W-R2330027-042822-SSR-028

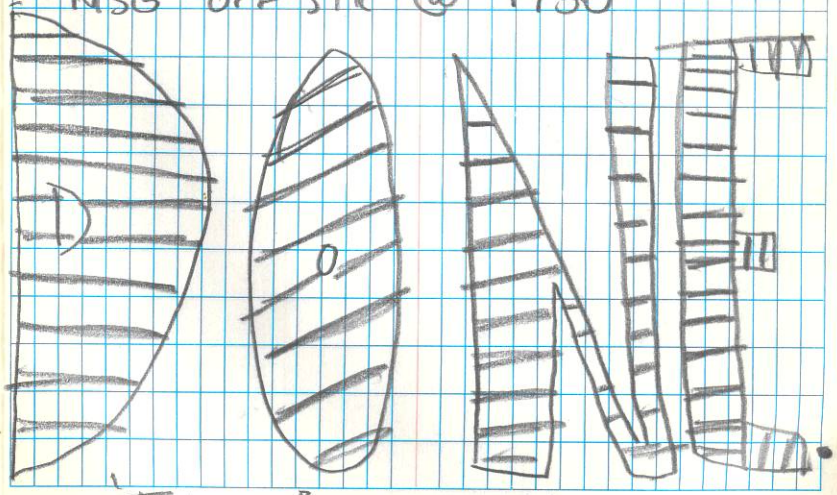
1540 SAMPLED: MW-20
W-R2330027-042822-SSR-029

1630 SAMPLED: MW-19
W-R2330027-042822-SSR-030

1720 SAMPLED: MW-34
W-R2330027-042822-SSR-031

1730 SAMPLED: EQUIP BLANK
W-R2330027-042822-SSR-032

MSG OFF SITE @ 1730



TIL OCTOBER!!

ATTACHMENT 2

LABORATORY ANALYTICAL DATA REPORTS

17-May-2022

Thomas E. Peters
The Mannik & Smith Group, Inc.
2365 Haggerty Road South
Suite 100
Canton, MI 48188

Re: **R2330027** Work Order: **22050239**

Dear Thomas,

ALS Environmental received 33 samples on 03-May-2022 10:30 PM 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,

Julienn C. Williams

Electronically approved by: Julienn Williams

Julienn Williams
Project Manager

Report of Laboratory Analysis

Client:	The Mannik & Smith Group, Inc.
Project:	R2330027
WorkOrder:	**22050239**

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
n	Analyte accreditation is not offered
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

ALS Group, USA

Date: 17-May-22

Client: The Mannik & Smith Group, Inc.
Project: R2330027
Work Order: **22050239**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
22050239-01	W-R2330027-042522-SSR-001	Water		4/25/2022 12:05	5/3/2022 22:30	☐
22050239-02	W-R2330027-042522-ADH-002	Water		4/25/2022 13:00	5/3/2022 22:30	☐
22050239-03	W-R2330027-042522-SSR-003	Water		4/25/2022 16:00	5/3/2022 22:30	☐
22050239-04	W-R2330027-042522-ADH-004	Water		4/25/2022 14:55	5/3/2022 22:30	☐
22050239-05	W-R2330027-042522-ADP-005	Water		4/25/2022 14:40	5/3/2022 22:30	☐
22050239-06	W-R2330027-042522-SSR-006	Water		4/23/2022 17:15	5/3/2022 22:30	☐
22050239-07	W-R2330027-042622-SSR-007	Water		4/26/2022 10:45	5/3/2022 22:30	☐
22050239-08	W-R2330027-042622-ADP-008	Water		4/26/2022 11:45	5/3/2022 22:30	☐
22050239-09	W-R2330027-042622-SSR-009	Water		4/26/2022 11:45	5/3/2022 22:30	☐
22050239-10	W-R2330027-042622-ADP-010	Water		4/26/2022 13:00	5/3/2022 22:30	☐
22050239-11	W-R2330027-042622-ADH-011	Water		4/26/2022 12:55	5/3/2022 22:30	☐
22050239-12	W-R2330027-042622-SSR-012	Water		4/26/2022 13:25	5/3/2022 22:30	☐
22050239-13	W-R2330027-042622-ADH-013	Water		4/26/2022 15:15	5/3/2022 22:30	☐
22050239-14	W-R2330027-042622-ADP-014	Water		4/26/2022 15:30	5/3/2022 22:30	☐
22050239-15	W-R2330027-042622-SSR-015	Water		4/26/2022 15:25	5/3/2022 22:30	☐
22050239-16	W-R2330027-042622-SSR-016	Water		4/26/2022 15:25	5/3/2022 22:30	☐
22050239-17	W-R2330027-042622-ADP-017	Water		4/26/2022 17:10	5/3/2022 22:30	☐
22050239-18	W-R2330027-042622-SSR-018	Water		4/26/2022 18:00	5/3/2022 22:30	☐
22050239-19	W-R2330027-042722-SSR-019	Water		4/27/2022 11:00	5/3/2022 22:30	☐
22050239-20	W-R2330027-042722-SSR-020	Water		4/27/2022 12:55	5/3/2022 22:30	☐
22050239-21	W-R2330027-042722-SSR-021	Water		4/27/2022 13:25	5/3/2022 22:30	☐
22050239-22	W-R2330027-042722-SSR-022	Water		4/27/2022 13:55	5/3/2022 22:30	☐
22050239-23	W-R2330027-042722-SSR-023	Water		4/27/2022 15:45	5/3/2022 22:30	☐
22050239-24	W-R2330027-042722-SSR-024	Water		4/27/2022 16:25	5/3/2022 22:30	☐
22050239-25	W-R2330027-042722-SSR-025	Water		4/27/2022 16:25	5/3/2022 22:30	☐
22050239-26	W-R2330027-042722-SSR-026	Water		4/27/2022 17:00	5/3/2022 22:30	☐
22050239-27	W-R2330027-042822-SSR-027	Water		4/28/2022 13:45	5/3/2022 22:30	☐
22050239-28	W-R2330027-042822-SSR-028	Water		4/28/2022 14:55	5/3/2022 22:30	☐
22050239-29	W-R2330027-042822-SSR-029	Water		4/28/2022 15:40	5/3/2022 22:30	☐
22050239-30	W-R2330027-042822-SSR-030	Water		4/28/2022 16:30	5/3/2022 22:30	☐
22050239-31	W-R2330027-042822-SSR-031	Water		4/28/2022 17:20	5/3/2022 22:30	☐
22050239-32	W-R2330027-042822-SSR-032	Water		4/28/2022 17:30	5/3/2022 22:30	☐
22050239-33	Trip Blank	Water		4/28/2022	5/3/2022 22:30	☐

ALS Group, USA

Date: *17-May-2022*

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042522-SSR-001 **Lab ID:** 22050239-01
Collection Date: 4/25/2022 12:05 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/5/22 17:30	Analyst: **DSC**
Aluminum	**0.096**		**0.010**	**mg/L**	1	5/5/2022 08:37 PM
Iron	**2.1**		**0.080**	**mg/L**	1	5/5/2022 08:37 PM
Manganese	**0.52**		**0.0050**	**mg/L**	1	5/5/2022 08:37 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/5/22 17:30	Analyst: **DSC**
Aluminum	U		0.010	mg/L	1	5/5/2022 08:39 PM
Iron	**1.6**		**0.080**	**mg/L**	1	5/5/2022 08:39 PM
Manganese	**0.51**		**0.0050**	**mg/L**	1	5/5/2022 08:39 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042522-ADH-002 **Lab ID:** 22050239-02
Collection Date: 4/25/2022 01:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/5/22 17:30	Analyst: **DSC**
Aluminum	**2.5**		**0.10**	**mg/L**	10	5/6/2022 01:19 PM
Iron	**5.6**		**0.080**	**mg/L**	1	5/5/2022 08:41 PM
Manganese	**0.17**		**0.0050**	**mg/L**	1	5/5/2022 08:41 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/5/22 17:30	Analyst: **DSC**
Aluminum	**0.015**		**0.010**	**mg/L**	1	5/5/2022 08:44 PM
Iron	**1.2**		**0.080**	**mg/L**	1	5/5/2022 08:44 PM
Manganese	**0.061**		**0.0050**	**mg/L**	1	5/5/2022 08:44 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042522-SSR-003 **Lab ID:** 22050239-03
Collection Date: 4/25/2022 04:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/5/22 17:30	Analyst: **DSC**
Aluminum	**1.1**		**0.010**	**mg/L**	1	5/5/2022 08:50 PM
Iron	**5.1**		**0.080**	**mg/L**	1	5/5/2022 08:50 PM
Manganese	**0.10**		**0.0050**	**mg/L**	1	5/5/2022 08:50 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	U		0.010	mg/L	1	5/5/2022 09:07 PM
Iron	**3.5**		**0.080**	**mg/L**	1	5/5/2022 09:07 PM
Manganese	**0.072**		**0.0050**	**mg/L**	1	5/5/2022 09:07 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042522-ADH-004 **Lab ID:** 22050239-04
Collection Date: 4/25/2022 02:55 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	**0.065**		**0.010**	**mg/L**	1	5/5/2022 09:09 PM
Iron	**2.9**		**0.080**	**mg/L**	1	5/5/2022 09:09 PM
Manganese	**0.12**		**0.0050**	**mg/L**	1	5/5/2022 09:09 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	**0.011**		**0.010**	**mg/L**	1	5/5/2022 09:15 PM
Iron	**13**		**0.080**	**mg/L**	1	5/5/2022 09:15 PM
Manganese	**0.13**		**0.0050**	**mg/L**	1	5/5/2022 09:15 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042522-ADP-005 **Lab ID:** 22050239-05
Collection Date: 4/25/2022 02:40 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	**0.43**		**0.010**	**mg/L**	1	5/5/2022 09:17 PM
Iron	**6.2**		**0.080**	**mg/L**	1	5/5/2022 09:17 PM
Manganese	**0.11**		**0.0050**	**mg/L**	1	5/5/2022 09:17 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	U		0.010	mg/L	1	5/5/2022 09:24 PM
Iron	**5.7**		**0.080**	**mg/L**	1	5/5/2022 09:24 PM
Manganese	**0.10**		**0.0050**	**mg/L**	1	5/5/2022 09:24 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042522-SSR-006 **Lab ID:** 22050239-06
Collection Date: 4/23/2022 05:15 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	U		0.010	mg/L	1	5/5/2022 09:26 PM
Iron	**0.062**	J	**0.080**	**mg/L**	1	5/5/2022 09:26 PM
Manganese	U		0.0050	mg/L	1	5/5/2022 09:26 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	**0.0093**	J	**0.010**	**mg/L**	1	5/6/2022 02:49 PM
Iron	U		0.080	mg/L	1	5/6/2022 02:49 PM
Manganese	U		0.0050	mg/L	1	5/6/2022 02:49 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-SSR-007 **Lab ID:** 22050239-07
Collection Date: 4/26/2022 10:45 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/5/22 17:31	Analyst: **DSC**
Aluminum	**0.074**		**0.010**	**mg/L**	1	5/6/2022 02:54 PM
Iron	**2.2**		**0.080**	**mg/L**	1	5/6/2022 02:54 PM
Manganese	**0.19**		**0.0050**	**mg/L**	1	5/6/2022 02:54 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/6/22 17:54	Analyst: **DSC**
Aluminum	U		0.010	mg/L	1	5/6/2022 08:59 PM
Iron	**0.076**	J	**0.080**	**mg/L**	1	5/6/2022 08:59 PM
Manganese	**0.14**		**0.0050**	**mg/L**	1	5/6/2022 08:59 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-ADP-008 **Lab ID:** 22050239-08
Collection Date: 4/26/2022 11:45 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/6/22 17:54	Analyst: **DSC**
Aluminum	**0.080**		**0.010**	**mg/L**	1	5/6/2022 09:01 PM
Iron	**6.6**		**0.080**	**mg/L**	1	5/6/2022 09:01 PM
Manganese	**0.81**		**0.0050**	**mg/L**	1	5/6/2022 09:01 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/6/22 17:54	Analyst: **DSC**
Aluminum	**0.019**		**0.010**	**mg/L**	1	5/6/2022 09:03 PM
Iron	**5.6**		**0.080**	**mg/L**	1	5/6/2022 09:03 PM
Manganese	**0.80**		**0.0050**	**mg/L**	1	5/6/2022 09:03 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-SSR-009 **Lab ID:** 22050239-09
Collection Date: 4/26/2022 11:45 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/6/22 17:54	Analyst: **DSC**
Aluminum	**0.22**		**0.010**	**mg/L**	1	5/6/2022 09:05 PM
Iron	**11**		**0.080**	**mg/L**	1	5/6/2022 09:05 PM
Manganese	**0.79**		**0.0050**	**mg/L**	1	5/6/2022 09:05 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/6/22 17:54	Analyst: **DSC**
Aluminum	**0.011**		**0.010**	**mg/L**	1	5/6/2022 09:08 PM
Iron	**4.0**		**0.080**	**mg/L**	1	5/6/2022 09:08 PM
Manganese	**0.53**		**0.0050**	**mg/L**	1	5/6/2022 09:08 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-ADP-010 **Lab ID:** 22050239-10
Collection Date: 4/26/2022 01:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/6/22 17:54	Analyst: **DSC**
Aluminum	**1.2**		**0.010**	**mg/L**	1	5/6/2022 09:10 PM
Iron	**31**		**0.080**	**mg/L**	1	5/6/2022 09:10 PM
Manganese	**0.62**		**0.0050**	**mg/L**	1	5/6/2022 09:10 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.013**		**0.010**	**mg/L**	1	5/10/2022 06:28 PM
Iron	**18**		**0.080**	**mg/L**	1	5/10/2022 06:28 PM
Manganese	**0.53**		**0.0050**	**mg/L**	1	5/10/2022 06:28 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-ADH-011 **Lab ID:** 22050239-11
Collection Date: 4/26/2022 12:55 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.63**	B	**0.010**	**mg/L**	1	5/10/2022 06:30 PM
Iron	**8.3**		**0.080**	**mg/L**	1	5/10/2022 06:30 PM
Manganese	**0.10**		**0.0050**	**mg/L**	1	5/10/2022 06:30 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.076**		**0.010**	**mg/L**	1	5/10/2022 06:32 PM
Iron	**5.7**		**0.080**	**mg/L**	1	5/10/2022 06:32 PM
Manganese	**0.079**		**0.0050**	**mg/L**	1	5/10/2022 06:32 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-SSR-012 **Lab ID:** 22050239-12
Collection Date: 4/26/2022 01:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.91**	B	**0.010**	**mg/L**	1	5/10/2022 06:34 PM
Iron	**65**		**0.080**	**mg/L**	1	5/10/2022 06:34 PM
Manganese	**0.59**		**0.0050**	**mg/L**	1	5/10/2022 06:34 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	U		0.010	mg/L	1	5/10/2022 06:36 PM
Iron	**26**		**0.080**	**mg/L**	1	5/10/2022 06:36 PM
Manganese	**0.24**		**0.0050**	**mg/L**	1	5/10/2022 06:36 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-ADH-013 **Lab ID:** 22050239-13
Collection Date: 4/26/2022 03:15 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 16:33	Analyst: **STP**
Aluminum	**0.027**		**0.010**	**mg/L**	1	5/12/2022 09:49 PM
Iron	**2.0**		**0.080**	**mg/L**	1	5/10/2022 06:38 PM
Manganese	**0.88**		**0.0050**	**mg/L**	1	5/10/2022 06:38 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.0081**	J	**0.010**	**mg/L**	1	5/10/2022 06:40 PM
Iron	**1.9**		**0.080**	**mg/L**	1	5/10/2022 06:40 PM
Manganese	**0.88**		**0.0050**	**mg/L**	1	5/10/2022 06:40 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-ADP-014 **Lab ID:** 22050239-14
Collection Date: 4/26/2022 03:30 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**1.5**	B	**0.010**	**mg/L**	1	5/10/2022 06:41 PM
Iron	**9.2**		**0.080**	**mg/L**	1	5/10/2022 06:41 PM
Manganese	**0.55**		**0.0050**	**mg/L**	1	5/10/2022 06:41 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.022**		**0.010**	**mg/L**	1	5/10/2022 06:43 PM
Iron	**0.37**		**0.080**	**mg/L**	1	5/10/2022 06:43 PM
Manganese	**0.22**		**0.0050**	**mg/L**	1	5/10/2022 06:43 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-SSR-015 **Lab ID:** 22050239-15
Collection Date: 4/26/2022 03:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**1.9**	B	**0.10**	**mg/L**	10	5/11/2022 02:33 PM
Iron	**8.6**		**0.080**	**mg/L**	1	5/10/2022 06:45 PM
Manganese	**0.47**		**0.0050**	**mg/L**	1	5/10/2022 06:45 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	U		0.010	mg/L	1	5/10/2022 06:50 PM
Iron	**2.8**		**0.080**	**mg/L**	1	5/10/2022 06:50 PM
Manganese	**0.37**		**0.0050**	**mg/L**	1	5/10/2022 06:50 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-SSR-016 **Lab ID:** 22050239-16
Collection Date: 4/26/2022 03:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**1.9**	B	**0.010**	**mg/L**	1	5/10/2022 06:52 PM
Iron	**8.3**		**0.080**	**mg/L**	1	5/10/2022 06:52 PM
Manganese	**0.45**		**0.0050**	**mg/L**	1	5/10/2022 06:52 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.0096**	J	**0.010**	**mg/L**	1	5/10/2022 06:58 PM
Iron	**2.8**		**0.080**	**mg/L**	1	5/10/2022 06:58 PM
Manganese	**0.37**		**0.0050**	**mg/L**	1	5/10/2022 06:58 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-ADP-017 **Lab ID:** 22050239-17
Collection Date: 4/26/2022 05:10 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 16:33	Analyst: **STP**
Aluminum	**0.042**		**0.010**	**mg/L**	1	5/12/2022 09:50 PM
Iron	**4.0**		**0.080**	**mg/L**	1	5/10/2022 07:00 PM
Manganese	**0.34**		**0.0050**	**mg/L**	1	5/10/2022 07:00 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	U		0.010	mg/L	1	5/10/2022 07:02 PM
Iron	**0.075**	J	**0.080**	**mg/L**	1	5/10/2022 07:02 PM
Manganese	**0.048**		**0.0050**	**mg/L**	1	5/10/2022 07:02 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042622-SSR-018 **Lab ID:** 22050239-18
Collection Date: 4/26/2022 06:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum		U	0.010	mg/L	1	5/10/2022 07:04 PM
Iron		U	0.080	mg/L	1	5/10/2022 07:04 PM
Manganese		U	0.0050	mg/L	1	5/10/2022 07:04 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum		U	0.010	mg/L	1	5/10/2022 07:05 PM
Iron		U	0.080	mg/L	1	5/10/2022 07:05 PM
Manganese		U	0.0050	mg/L	1	5/10/2022 07:05 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-019 **Lab ID:** 22050239-19
Collection Date: 4/27/2022 11:00 AM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/9/22 17:31	Analyst: **STP**
Aluminum	**0.55**	B	**0.010**	**mg/L**	1	5/10/2022 07:07 PM
Iron	**2.0**		**0.080**	**mg/L**	1	5/10/2022 07:07 PM
Manganese	**0.45**		**0.0050**	**mg/L**	1	5/10/2022 07:07 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/10/22 16:21	Analyst: **STP**
Aluminum	U		0.010	mg/L	1	5/10/2022 05:48 PM
Iron	U		0.080	mg/L	1	5/10/2022 05:48 PM
Manganese	**0.0040**	J	**0.0050**	**mg/L**	1	5/10/2022 05:48 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-020 **Lab ID:** 22050239-20
Collection Date: 4/27/2022 12:55 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.61**		**0.010**	**mg/L**	1	5/13/2022 06:13 PM
Iron	**1.2**		**0.080**	**mg/L**	1	5/10/2022 05:50 PM
Manganese	**0.57**		**0.0050**	**mg/L**	1	5/10/2022 05:50 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/10/22 16:21	Analyst: **STP**
Aluminum	U		0.010	mg/L	1	5/10/2022 05:51 PM
Iron	**0.13**		**0.080**	**mg/L**	1	5/10/2022 05:51 PM
Manganese	**0.28**		**0.0050**	**mg/L**	1	5/10/2022 05:51 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-021 **Lab ID:** 22050239-21
Collection Date: 4/27/2022 01:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.078**		**0.010**	**mg/L**	1	5/13/2022 06:15 PM
Iron	**9.7**		**0.080**	**mg/L**	1	5/10/2022 05:53 PM
Manganese	**0.074**		**0.0050**	**mg/L**	1	5/10/2022 05:53 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/12/22 09:44	Analyst: **STP**
Aluminum	U		0.010	mg/L	1	5/11/2022 06:31 PM
Iron	**8.0**		**0.080**	**mg/L**	1	5/10/2022 05:55 PM
Manganese	**0.074**		**0.0050**	**mg/L**	1	5/10/2022 05:55 PM
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **DMS**
1,1,1-Trichloroethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,1,2,2-Tetrachloroethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,1,2-Trichloroethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,1,2-Trichlorotrifluoroethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,1-Dichloroethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,1-Dichloroethene	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,2,4-Trichlorobenzene	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,2-Dibromo-3-chloropropane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,2-Dibromoethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,2-Dichlorobenzene	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,2-Dichloroethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,2-Dichloropropane	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,3-Dichlorobenzene	U		1.0	µg/L	1	5/10/2022 06:06 PM
1,4-Dichlorobenzene	U		1.0	µg/L	1	5/10/2022 06:06 PM
2-Butanone	U		5.0	µg/L	1	5/10/2022 06:06 PM
2-Hexanone	U		5.0	µg/L	1	5/10/2022 06:06 PM
4-Methyl-2-pentanone	U		1.0	µg/L	1	5/10/2022 06:06 PM
Acetone	U		10	µg/L	1	5/10/2022 06:06 PM
Benzene	**1.2**		**1.0**	**µg/L**	1	5/10/2022 06:06 PM
Bromodichloromethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
Bromoform	U		1.0	µg/L	1	5/10/2022 06:06 PM
Bromomethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
Carbon disulfide	U		1.0	µg/L	1	5/10/2022 06:06 PM
Carbon tetrachloride	U		1.0	µg/L	1	5/10/2022 06:06 PM
Chlorobenzene	**31**		**1.0**	**µg/L**	1	5/10/2022 06:06 PM
Chloroethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
Chloroform	U		1.0	µg/L	1	5/10/2022 06:06 PM
Chloromethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
cis-1,2-Dichloroethene	U		1.0	µg/L	1	5/10/2022 06:06 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-021 **Lab ID:** 22050239-21
Collection Date: 4/27/2022 01:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
cis-1,3-Dichloropropene	U		1.0	µg/L	1	5/10/2022 06:06 PM
Cyclohexane	U		2.0	µg/L	1	5/10/2022 06:06 PM
Dibromochloromethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
Dichlorodifluoromethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
Ethylbenzene	U		1.0	µg/L	1	5/10/2022 06:06 PM
Isopropylbenzene	U		1.0	µg/L	1	5/10/2022 06:06 PM
Methyl acetate	U		2.0	µg/L	1	5/10/2022 06:06 PM
Methyl tert-butyl ether	U		1.0	µg/L	1	5/10/2022 06:06 PM
Methylcyclohexane	U		1.0	µg/L	1	5/10/2022 06:06 PM
Methylene chloride	U		5.0	µg/L	1	5/10/2022 06:06 PM
Styrene	U		1.0	µg/L	1	5/10/2022 06:06 PM
Tetrachloroethene	U		1.0	µg/L	1	5/10/2022 06:06 PM
Toluene	U		1.0	µg/L	1	5/10/2022 06:06 PM
trans-1,2-Dichloroethene	U		1.0	µg/L	1	5/10/2022 06:06 PM
trans-1,3-Dichloropropene	U		1.0	µg/L	1	5/10/2022 06:06 PM
Trichloroethene	U		1.0	µg/L	1	5/10/2022 06:06 PM
Trichlorofluoromethane	U		1.0	µg/L	1	5/10/2022 06:06 PM
Vinyl chloride	U		1.0	µg/L	1	5/10/2022 06:06 PM
Xylenes, Total	U		3.0	µg/L	1	5/10/2022 06:06 PM
Surr: 1,2-Dichloroethane-d4	*99.2*		*75-120*	*%REC*	1	5/10/2022 06:06 PM
Surr: 4-Bromofluorobenzene	*99.6*		*80-110*	*%REC*	1	5/10/2022 06:06 PM
Surr: Dibromofluoromethane	*96.6*		*85-115*	*%REC*	1	5/10/2022 06:06 PM
Surr: Toluene-d8	*100*		*85-110*	*%REC*	1	5/10/2022 06:06 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-022 **Lab ID:** 22050239-22
Collection Date: 4/27/2022 01:55 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.30**		**0.010**	**mg/L**	1	5/13/2022 06:23 PM
Iron	**0.37**		**0.080**	**mg/L**	1	5/10/2022 05:57 PM
Manganese	**0.0087**		**0.0050**	**mg/L**	1	5/10/2022 05:57 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/10/22 16:21	Analyst: **STP**
Aluminum	**0.0093**	J	**0.010**	**mg/L**	1	5/10/2022 05:58 PM
Iron	U		0.080	mg/L	1	5/11/2022 02:31 PM
Manganese	U		0.0050	mg/L	1	5/10/2022 05:58 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-023 **Lab ID:** 22050239-23
Collection Date: 4/27/2022 03:45 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.73**		**0.010**	**mg/L**	1	5/13/2022 06:25 PM
Iron	**11**		**0.080**	**mg/L**	1	5/10/2022 06:00 PM
Manganese	**0.18**		**0.0050**	**mg/L**	1	5/10/2022 06:00 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/10/22 16:21	Analyst: **STP**
Aluminum	U		0.010	mg/L	1	5/10/2022 06:02 PM
Iron	**6.8**		**0.080**	**mg/L**	1	5/10/2022 06:02 PM
Manganese	**0.15**		**0.0050**	**mg/L**	1	5/10/2022 06:02 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-024 **Lab ID:** 22050239-24
Collection Date: 4/27/2022 04:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**18**		**0.10**	**mg/L**	10	5/13/2022 06:27 PM
Iron	**21**		**0.080**	**mg/L**	1	5/10/2022 06:07 PM
Manganese	**1.0**		**0.0050**	**mg/L**	1	5/10/2022 06:07 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/12/22 09:44	Analyst: **STP**
Aluminum	**0.046**		**0.010**	**mg/L**	1	5/11/2022 06:39 PM
Iron	**0.082**		**0.080**	**mg/L**	1	5/10/2022 06:09 PM
Manganese	**0.053**		**0.0050**	**mg/L**	1	5/10/2022 06:09 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-025 **Lab ID:** 22050239-25
Collection Date: 4/27/2022 04:25 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**16**		**0.10**	**mg/L**	10	5/13/2022 06:29 PM
Iron	**19**		**0.080**	**mg/L**	1	5/10/2022 06:11 PM
Manganese	**1.2**		**0.0050**	**mg/L**	1	5/10/2022 06:11 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.13**		**0.010**	**mg/L**	1	5/13/2022 06:30 PM
Iron	**0.083**		**0.080**	**mg/L**	1	5/10/2022 06:13 PM
Manganese	**0.060**		**0.0050**	**mg/L**	1	5/10/2022 06:13 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042722-SSR-026 **Lab ID:** 22050239-26
Collection Date: 4/27/2022 05:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum		U	0.010	mg/L	1	5/11/2022 07:46 PM
Iron		U	0.080	mg/L	1	5/10/2022 06:15 PM
Manganese		U	0.0050	mg/L	1	5/10/2022 06:15 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum		U	0.010	mg/L	1	5/11/2022 07:48 PM
Iron		U	0.080	mg/L	1	5/10/2022 06:16 PM
Manganese		U	0.0050	mg/L	1	5/10/2022 06:16 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042822-SSR-027 **Lab ID:** 22050239-27
Collection Date: 4/28/2022 01:45 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum	**1.7**	B	**0.10**	**mg/L**	10	5/12/2022 04:17 PM
Iron	**34**		**0.080**	**mg/L**	1	5/11/2022 07:50 PM
Manganese	**0.18**		**0.0050**	**mg/L**	1	5/11/2022 07:50 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum	**0.0097**	J	**0.010**	**mg/L**	1	5/11/2022 07:52 PM
Iron	**1.2**		**0.080**	**mg/L**	1	5/11/2022 07:52 PM
Manganese	**0.057**		**0.0050**	**mg/L**	1	5/11/2022 07:52 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042822-SSR-028 **Lab ID:** 22050239-28
Collection Date: 4/28/2022 02:55 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum	**1.4**	B	**0.010**	**mg/L**	1	5/11/2022 07:54 PM
Iron	**3.6**		**0.080**	**mg/L**	1	5/11/2022 07:54 PM
Manganese	**0.25**		**0.0050**	**mg/L**	1	5/11/2022 07:54 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.0088**	J	**0.010**	**mg/L**	1	5/13/2022 06:32 PM
Iron	**0.067**	J	**0.080**	**mg/L**	1	5/11/2022 07:56 PM
Manganese	**0.019**		**0.0050**	**mg/L**	1	5/11/2022 07:56 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042822-SSR-029 **Lab ID:** 22050239-29
Collection Date: 4/28/2022 03:40 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum	**2.6**	B	**0.10**	**mg/L**	10	5/12/2022 04:19 PM
Iron	**12**		**0.080**	**mg/L**	1	5/11/2022 07:58 PM
Manganese	**0.41**		**0.0050**	**mg/L**	1	5/11/2022 07:58 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.15**		**0.010**	**mg/L**	1	5/13/2022 06:34 PM
Iron	**4.2**		**0.080**	**mg/L**	1	5/11/2022 08:04 PM
Manganese	**0.18**		**0.0050**	**mg/L**	1	5/11/2022 08:04 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042822-SSR-030 **Lab ID:** 22050239-30
Collection Date: 4/28/2022 04:30 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum	**1.9**	B	**0.010**	**mg/L**	1	5/11/2022 08:06 PM
Iron	**8.9**		**0.080**	**mg/L**	1	5/11/2022 08:06 PM
Manganese	**0.62**		**0.0050**	**mg/L**	1	5/11/2022 08:06 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.014**		**0.010**	**mg/L**	1	5/13/2022 06:35 PM
Iron	**4.7**		**0.080**	**mg/L**	1	5/11/2022 08:08 PM
Manganese	**0.58**		**0.0050**	**mg/L**	1	5/11/2022 08:08 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042822-SSR-031 **Lab ID:** 22050239-31
Collection Date: 4/28/2022 05:20 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum	**2.4**	B	**0.10**	**mg/L**	10	5/12/2022 04:21 PM
Iron	**7.3**		**0.080**	**mg/L**	1	5/11/2022 08:10 PM
Manganese	**0.26**		**0.0050**	**mg/L**	1	5/11/2022 08:10 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/13/22 16:43	Analyst: **STP**
Aluminum	**0.014**		**0.010**	**mg/L**	1	5/13/2022 06:37 PM
Iron	**2.7**		**0.080**	**mg/L**	1	5/11/2022 08:12 PM
Manganese	**0.17**		**0.0050**	**mg/L**	1	5/11/2022 08:12 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: W-R2330027-042822-SSR-032 **Lab ID:** 22050239-32
Collection Date: 4/28/2022 05:30 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
METALS BY ICP-MS			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum		U	0.010	mg/L	1	5/11/2022 08:14 PM
Iron		U	0.080	mg/L	1	5/11/2022 08:14 PM
Manganese		U	0.0050	mg/L	1	5/11/2022 08:14 PM
METALS BY ICP-MS (DISSOLVED)			**SW6020B**		Prep: SW3015A 5/12/22 09:47	Analyst: **STP**
Aluminum		U	0.010	mg/L	1	5/11/2022 08:16 PM
Iron		U	0.080	mg/L	1	5/11/2022 08:16 PM
Manganese		U	0.0050	mg/L	1	5/11/2022 08:16 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: Trip Blank **Lab ID:** 22050239-33
Collection Date: 4/28/2022 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			**SW8260C**			Analyst: **DMS**
1,1,1-Trichloroethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,1,2,2-Tetrachloroethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,1,2-Trichloroethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,1,2-Trichlorotrifluoroethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,1-Dichloroethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,1-Dichloroethene		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,2,4-Trichlorobenzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,2-Dibromo-3-chloropropane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,2-Dibromoethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,2-Dichlorobenzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,2-Dichloroethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,2-Dichloropropane		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,3-Dichlorobenzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
1,4-Dichlorobenzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
2-Butanone		U	5.0	µg/L	1	5/10/2022 05:21 PM
2-Hexanone		U	5.0	µg/L	1	5/10/2022 05:21 PM
4-Methyl-2-pentanone		U	1.0	µg/L	1	5/10/2022 05:21 PM
Acetone		U	10	µg/L	1	5/10/2022 05:21 PM
Benzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
Bromodichloromethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
Bromoform		U	1.0	µg/L	1	5/10/2022 05:21 PM
Bromomethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
Carbon disulfide		U	1.0	µg/L	1	5/10/2022 05:21 PM
Carbon tetrachloride		U	1.0	µg/L	1	5/10/2022 05:21 PM
Chlorobenzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
Chloroethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
Chloroform		U	1.0	µg/L	1	5/10/2022 05:21 PM
Chloromethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
cis-1,2-Dichloroethene		U	1.0	µg/L	1	5/10/2022 05:21 PM
cis-1,3-Dichloropropene		U	1.0	µg/L	1	5/10/2022 05:21 PM
Cyclohexane		U	2.0	µg/L	1	5/10/2022 05:21 PM
Dibromochloromethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
Dichlorodifluoromethane		U	1.0	µg/L	1	5/10/2022 05:21 PM
Ethylbenzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
Isopropylbenzene		U	1.0	µg/L	1	5/10/2022 05:21 PM
Methyl acetate		U	2.0	µg/L	1	5/10/2022 05:21 PM
Methyl tert-butyl ether		U	1.0	µg/L	1	5/10/2022 05:21 PM
Methylcyclohexane		U	1.0	µg/L	1	5/10/2022 05:21 PM

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

Client: The Mannik & Smith Group, Inc.
Project: R2330027 **Work Order:** 22050239
Sample ID: Trip Blank **Lab ID:** 22050239-33
Collection Date: 4/28/2022 **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Methylene chloride	U		5.0	µg/L	1	5/10/2022 05:21 PM
Styrene	U		1.0	µg/L	1	5/10/2022 05:21 PM
Tetrachloroethene	U		1.0	µg/L	1	5/10/2022 05:21 PM
Toluene	U		1.0	µg/L	1	5/10/2022 05:21 PM
trans-1,2-Dichloroethene	U		1.0	µg/L	1	5/10/2022 05:21 PM
trans-1,3-Dichloropropene	U		1.0	µg/L	1	5/10/2022 05:21 PM
Trichloroethene	U		1.0	µg/L	1	5/10/2022 05:21 PM
Trichlorofluoromethane	U		1.0	µg/L	1	5/10/2022 05:21 PM
Vinyl chloride	U		1.0	µg/L	1	5/10/2022 05:21 PM
Xylenes, Total	U		3.0	µg/L	1	5/10/2022 05:21 PM
Surr: 1,2-Dichloroethane-d4	*96.0*		*75-120*	*%REC*	1	5/10/2022 05:21 PM
Surr: 4-Bromofluorobenzene	*98.3*		*80-110*	*%REC*	1	5/10/2022 05:21 PM
Surr: Dibromofluoromethane	*92.0*		*85-115*	*%REC*	1	5/10/2022 05:21 PM
Surr: Toluene-d8	*101*		*85-110*	*%REC*	1	5/10/2022 05:21 PM

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

QC BATCH REPORT

Batch ID: **195840** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-195840-195840** Units: **mg/L** Analysis Date: **5/5/2022 08:05 PM**

Client ID: Run ID: **ICPMS4_220505A** SeqNo: **8393312** Prep Date: **5/5/2022** 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-195840-195840** Units: **mg/L** Analysis Date: **5/5/2022 08:07 PM**

Client ID: Run ID: **ICPMS4_220505A** SeqNo: **8393313** Prep Date: **5/5/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.09983	0.010	0.1	0	99.8	80-120	0			
Iron	9.663	0.080	10	0	96.6	80-120	0			
Manganese	0.09426	0.0050	0.1	0	94.3	80-120	0			

MS Sample ID: **22050221-04DMS** Units: **mg/L** Analysis Date: **5/5/2022 08:33 PM**

Client ID: Run ID: **ICPMS4_220505A** SeqNo: **8393326** Prep Date: **5/5/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.3244	0.010	0.1	0.2395	84.9	75-125	0			
Iron	9.332	0.080	10	0.1731	91.6	75-125	0			
Manganese	0.101	0.0050	0.1	0.01053	90.4	75-125	0			

MSD Sample ID: **22050221-04DMSD** Units: **mg/L** Analysis Date: **5/5/2022 08:35 PM**

Client ID: Run ID: **ICPMS4_220505A** SeqNo: **8393327** Prep Date: **5/5/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.3509	0.010	0.1	0.2395	111	75-125	0.3244	7.83	20	
Iron	9.456	0.080	10	0.1731	92.8	75-125	9.332	1.32	20	
Manganese	0.1014	0.0050	0.1	0.01053	90.9	75-125	0.101	0.441	20	

The following samples were analyzed in this batch:

22050239-01A	22050239-01B	22050239-02A
22050239-02B	22050239-03A	

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **195842** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-195842-195842** Units: **mg/L** Analysis Date: **5/6/2022 01:57 PM**
Client ID: Run ID: **ICPMS4_220506A** SeqNo: **8395312** Prep Date: **5/5/2022** 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-195842-195842** Units: **mg/L** Analysis Date: **5/5/2022 09:05 PM**
Client ID: Run ID: **ICPMS4_220505A** SeqNo: **8393341** Prep Date: **5/5/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1039	0.010	0.1	0	104	80-120	0			
Iron	9.615	0.080	10	0	96.2	80-120	0			
Manganese	0.09533	0.0050	0.1	0	95.3	80-120	0			

MS Sample ID: **22050239-05AMS** Units: **mg/L** Analysis Date: **5/5/2022 09:20 PM**
Client ID: **W-R2330027-042522-ADP-005** Run ID: **ICPMS4_220505A** SeqNo: **8393348** Prep Date: **5/5/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.5496	0.010	0.1	0.4291	120	75-125	0			O
Iron	15.54	0.080	10	6.24	93	75-125	0			
Manganese	0.1967	0.0050	0.1	0.1077	89	75-125	0			

MSD Sample ID: **22050239-05AMSD** Units: **mg/L** Analysis Date: **5/5/2022 09:22 PM**
Client ID: **W-R2330027-042522-ADP-005** Run ID: **ICPMS4_220505A** SeqNo: **8393349** Prep Date: **5/5/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.6157	0.010	0.1	0.4291	187	75-125	0.5496	11.4	20	SO
Iron	15.9	0.080	10	6.24	96.6	75-125	15.54	2.28	20	
Manganese	0.2018	0.0050	0.1	0.1077	94.1	75-125	0.1967	2.55	20	

The following samples were analyzed in this batch:

22050239-03B	22050239-04A	22050239-04B
22050239-05A	22050239-05B	22050239-06A
22050239-06B	22050239-07A	

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **195920** Instrument ID **ICPMS4** Method: **SW6020B** **(Dissolve)**

MBLK Sample ID: **MBLK-195916-195920** Units: **mg/L** Analysis Date: **5/6/2022 08:39 PM**
Client ID: Run ID: **ICPMS4_220506A** SeqNo: **8398027** Prep Date: **5/6/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.008129	0.010								J
Iron	U	0.080								
Manganese	U	0.0050								

MBLK Sample ID: **MBLK-195920-195920** Units: **mg/L** Analysis Date: **5/6/2022 08:44 PM**
Client ID: Run ID: **ICPMS4_220506A** SeqNo: **8398029** Prep Date: **5/6/2022** 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-195916-195920** Units: **mg/L** Analysis Date: **5/6/2022 08:41 PM**
Client ID: Run ID: **ICPMS4_220506A** SeqNo: **8398028** Prep Date: **5/6/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1178	0.010	0.1	0	118	80-120	0			
Iron	10.45	0.080	10	0	105	80-120	0			
Manganese	0.1013	0.0050	0.1	0	101	80-120	0			

LCS Sample ID: **LCS-195920-195920** Units: **mg/L** Analysis Date: **5/6/2022 08:46 PM**
Client ID: Run ID: **ICPMS4_220506A** SeqNo: **8398030** Prep Date: **5/6/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	10.45	0.080	10	0	105	80-120	0			
Manganese	0.1014	0.0050	0.1	0	101	80-120	0			

LCS Sample ID: **LCS-195920-195920** Units: **mg/L** Analysis Date: **5/9/2022 06:43 PM**
Client ID: Run ID: **ICPMS4_220509A** SeqNo: **8402454** Prep Date: **5/6/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1175	0.010	0.1	0	117	80-120	0			

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **195920** Instrument ID **ICPMS4** Method: **SW6020B** **(Dissolve)**

MS Sample ID: **22050390-01CMS** Units: **mg/L** Analysis Date: **5/6/2022 09:14 PM**
Client ID: Run ID: **ICPMS4_220506A** SeqNo: **8398043** Prep Date: **5/6/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.128	0.010	0.1	0.01958	108	75-125	0			
Iron	10.29	0.080	10	0.207	101	75-125	0			
Manganese	0.1057	0.0050	0.1	0.00803	97.7	75-125	0			

MSD Sample ID: **22050390-01CMSD** Units: **mg/L** Analysis Date: **5/6/2022 09:21 PM**
Client ID: Run ID: **ICPMS4_220506A** SeqNo: **8398046** Prep Date: **5/6/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.121	0.010	0.1	0.01958	101	75-125	0.128	5.64	20	
Iron	10.28	0.080	10	0.207	101	75-125	10.29	0.156	20	
Manganese	0.1067	0.0050	0.1	0.00803	98.7	75-125	0.1057	0.924	20	

The following samples were analyzed in this batch:

22050239-07B	22050239-08A	22050239-08B
22050239-09A	22050239-09B	22050239-10A

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **195999** Instrument ID **ICPMS4** Method: **SW6020B** **(Dissolve)**

MBLK Sample ID: **MBLK-195996-195999** Units: **mg/L** Analysis Date: **5/10/2022 06:18 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8407028** Prep Date: **5/9/2022** 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								

MBLK Sample ID: **MBLK-195999-195999** Units: **mg/L** Analysis Date: **5/10/2022 06:21 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8407033** Prep Date: **5/9/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.080								
Manganese	U	0.0050								

MBLK Sample ID: **MBLK-195999-195999** Units: **mg/L** Analysis Date: **5/11/2022 02:40 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8408622** Prep Date: **5/9/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.01151	0.010								

LCS Sample ID: **LCS-195996-195999** Units: **mg/L** Analysis Date: **5/10/2022 06:19 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8407031** Prep Date: **5/9/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1193	0.010	0.1	0	119	80-120	0			
Iron	10.17	0.080	10	0	102	80-120	0			
Manganese	0.09775	0.0050	0.1	0	97.8	80-120	0			

LCS Sample ID: **LCS-195999-195999** Units: **mg/L** Analysis Date: **5/10/2022 06:23 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8407035** Prep Date: **5/9/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1187	0.010	0.1	0	119	80-120	0			B
Iron	9.94	0.080	10	0	99.4	80-120	0			
Manganese	0.09552	0.0050	0.1	0	95.5	80-120	0			

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **195999** Instrument ID **ICPMS4** Method: **SW6020B** **(Dissolve)**

MS Sample ID: **22050239-16AMS** Units: **mg/L** Analysis Date: **5/10/2022 06:54 PM**
Client ID: **W-R2330027-042622-SSR-016** Run ID: **ICPMS4_220510A** SeqNo: **8407069** Prep Date: **5/9/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.688	0.010	0.1	1.901	1790	75-125	0			BSEO
Iron	19.48	0.080	10	8.329	111	75-125	0			
Manganese	0.5383	0.0050	0.1	0.4534	84.9	75-125	0			O

MSD Sample ID: **22050239-16AMSD** Units: **mg/L** Analysis Date: **5/10/2022 06:56 PM**
Client ID: **W-R2330027-042622-SSR-016** Run ID: **ICPMS4_220510A** SeqNo: **8407072** Prep Date: **5/9/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.585	0.010	0.1	1.901	1680	75-125	3.688	2.83	20	BSEO
Iron	18.96	0.080	10	8.329	106	75-125	19.48	2.67	20	
Manganese	0.5361	0.0050	0.1	0.4534	82.7	75-125	0.5383	0.407	20	O

The following samples were analyzed in this batch:

22050239-10B	22050239-11A	22050239-11B
22050239-12A	22050239-12B	22050239-13A
22050239-13B	22050239-14A	22050239-14B
22050239-15A	22050239-15B	22050239-16A
22050239-16B	22050239-17A	22050239-17B
22050239-18A	22050239-18B	22050239-19A

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **196061** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-196061-196061** Units: **mg/L** Analysis Date: **5/10/2022 04:28 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8405842** Prep Date: **5/10/2022** 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-196061-196061** Units: **mg/L** Analysis Date: **5/10/2022 04:30 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8405843** Prep Date: **5/10/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.131	0.010	0.1	0	131	80-120	0			S
Iron	10.49	0.080	10	0	105	80-120	0			
Manganese	0.0988	0.0050	0.1	0	98.8	80-120	0			

MS Sample ID: **22050728-04AMS** Units: **mg/L** Analysis Date: **5/10/2022 04:37 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8405847** Prep Date: **5/10/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.192	0.010	0.1	0.05814	134	75-125	0			S
Iron	11.03	0.080	10	0.3535	107	75-125	0			
Manganese	0.1329	0.0050	0.1	0.03635	96.6	75-125	0			

MSD Sample ID: **22050728-04AMSD** Units: **mg/L** Analysis Date: **5/10/2022 04:39 PM**
Client ID: Run ID: **ICPMS4_220510A** SeqNo: **8405848** Prep Date: **5/10/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1552	0.010	0.1	0.05814	97	75-125	0.192	21.2	20	R
Iron	10.8	0.080	10	0.3535	104	75-125	11.03	2.12	20	
Manganese	0.1326	0.0050	0.1	0.03635	96.2	75-125	0.1329	0.266	20	

The following samples were analyzed in this batch:

22050239-19B	22050239-20A	22050239-20B
22050239-21A	22050239-21B	22050239-22A
22050239-22B	22050239-23A	22050239-23B
22050239-24A	22050239-24B	22050239-25A
22050239-25B	22050239-26A	22050239-26B

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **196142** Instrument ID **ICPMS4** Method: **SW6020B** **(Dissolve)**

MBLK Sample ID: **MBLK-196140-196142** Units: **mg/L** Analysis Date: **5/11/2022 06:10 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8409975** Prep Date: **5/12/2022** 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								

MBLK Sample ID: **MBLK-196142-196142** Units: **mg/L** Analysis Date: **5/11/2022 06:14 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8409977** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-196140-196142** Units: **mg/L** Analysis Date: **5/11/2022 06:12 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8409976** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1027	0.010	0.1	0	103	80-120	0			
Iron	9.796	0.080	10	0	98	80-120	0			
Manganese	0.09181	0.0050	0.1	0	91.8	80-120	0			

LCS Sample ID: **LCS-196142-196142** Units: **mg/L** Analysis Date: **5/11/2022 06:15 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8409978** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Iron	9.577	0.080	10	0	95.8	80-120	0			
Manganese	0.0912	0.0050	0.1	0	91.2	80-120	0			

MS Sample ID: **22050309-02AMS** Units: **mg/L** Analysis Date: **5/11/2022 06:48 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8409996** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.973	0.10	1	0.06748	90.6	75-125	0			
Iron	91.71	0.80	100	0.08454	91.6	75-125	0			
Manganese	3.969	0.050	1	3.159	80.9	75-125	0			

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **196142** Instrument ID **ICPMS4** Method: **SW6020B** **(Dissolve)**

MSD Sample ID: **22050309-02AMSD** Units: **mg/L** Analysis Date: **5/11/2022 06:50 PM**

Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8409997** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.974	0.10	1	0.06748	90.7	75-125	0.973	0.103	20	
Iron	92.39	0.80	100	0.08454	92.3	75-125	91.71	0.736	20	
Manganese	3.931	0.050	1	3.159	77.1	75-125	3.969	0.955	20	

The following samples were analyzed in this batch:

22050239-20A	22050239-21A	22050239-21B
22050239-22A	22050239-23A	22050239-24A
22050239-24B	22050239-25A	

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **196147** Instrument ID **ICPMS4** Method: **SW6020B**

MBLK Sample ID: **MBLK-196147-196147** Units: **mg/L** Analysis Date: **5/11/2022 07:40 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8410024** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.01516	0.010								
Iron	U	0.080								
Manganese	U	0.0050								

LCS Sample ID: **LCS-196147-196147** Units: **mg/L** Analysis Date: **5/11/2022 07:42 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8410025** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1063	0.010	0.1	0	106	80-120	0			B
Iron	10.15	0.080	10	0	102	80-120	0			
Manganese	0.09606	0.0050	0.1	0	96.1	80-120	0			

MS Sample ID: **22050587-01CMS** Units: **mg/L** Analysis Date: **5/11/2022 08:20 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8410044** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.257	0.010	0.1	0.06257	194	75-125	0			BS
Iron	14.73	0.080	10	4.99	97.4	75-125	0			
Manganese	1.668	0.0050	0.1	1.634	33.5	75-125	0			SO

MSD Sample ID: **22050587-01CMSD** Units: **mg/L** Analysis Date: **5/11/2022 08:22 PM**
Client ID: Run ID: **ICPMS4_220511A** SeqNo: **8410045** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.2526	0.010	0.1	0.06257	190	75-125	0.257	1.74	20	BS
Iron	14.66	0.080	10	4.99	96.7	75-125	14.73	0.499	20	
Manganese	1.669	0.0050	0.1	1.634	34.3	75-125	1.668	0.048	20	SO

The following samples were analyzed in this batch:

22050239-25B	22050239-26A	22050239-26B
22050239-27A	22050239-27B	22050239-28A
22050239-28B	22050239-29A	22050239-29B
22050239-30A	22050239-30B	22050239-31A
22050239-31B	22050239-32A	22050239-32B

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **196183** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-196183-196183** Units: **mg/L** Analysis Date: **5/12/2022 09:45 PM**
Client ID: Run ID: **ICPMS3_220512A** SeqNo: **8414669** Prep Date: **5/12/2022** 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-196183-196183** Units: **mg/L** Analysis Date: **5/12/2022 09:47 PM**
Client ID: Run ID: **ICPMS3_220512A** SeqNo: **8414670** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1087	0.010	0.1	0	109	80-120	0			
Iron	10.25	0.080	10	0	103	80-120	0			
Manganese	0.09937	0.0050	0.1	0	99.4	80-120	0			

MS Sample ID: **22050808-01FMS** Units: **mg/L** Analysis Date: **5/12/2022 10:26 PM**
Client ID: Run ID: **ICPMS3_220512A** SeqNo: **8414693** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1073	0.010	0.1	0.005463	102	75-125	0			
Iron	10.33	0.080	10	0.08013	102	75-125	0			
Manganese	0.3398	0.0050	0.1	0.2553	84.5	75-125	0			

MSD Sample ID: **22050808-01FMSD** Units: **mg/L** Analysis Date: **5/12/2022 10:28 PM**
Client ID: Run ID: **ICPMS3_220512A** SeqNo: **8414694** Prep Date: **5/12/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1105	0.010	0.1	0.005463	105	75-125	0.1073	2.98	20	
Iron	10.23	0.080	10	0.08013	101	75-125	10.33	0.994	20	
Manganese	0.3435	0.0050	0.1	0.2553	88.3	75-125	0.3398	1.1	20	

The following samples were analyzed in this batch: 22050239-13A 22050239-17A

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **196281** Instrument ID **ICPMS3** Method: **SW6020B**

MBLK Sample ID: **MBLK-196281-196281** Units: **mg/L** Analysis Date: **5/13/2022 04:10 PM**
Client ID: Run ID: **ICPMS3_220513A** SeqNo: **8418245** Prep Date: **5/13/2022** 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-196281-196281** Units: **mg/L** Analysis Date: **5/13/2022 04:11 PM**
Client ID: Run ID: **ICPMS3_220513A** SeqNo: **8418246** Prep Date: **5/13/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	0.1074	0.010	0.1	0	107	80-120	0			
Iron	10.18	0.080	10	0	102	80-120	0			
Manganese	0.09835	0.0050	0.1	0	98.3	80-120	0			

MS Sample ID: **22050908-02AMS** Units: **mg/L** Analysis Date: **5/13/2022 04:20 PM**
Client ID: Run ID: **ICPMS3_220513A** SeqNo: **8418251** Prep Date: **5/13/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.886	0.10	1	3.034	85.2	75-125	0			
Iron	508.7	0.80	100	427.2	81.5	75-125	0			O
Manganese	8.883	0.050	1	8.23	65.3	75-125	0			SO

MSD Sample ID: **22050908-02AMSD** Units: **mg/L** Analysis Date: **5/13/2022 04:22 PM**
Client ID: Run ID: **ICPMS3_220513A** SeqNo: **8418252** Prep Date: **5/13/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aluminum	3.961	0.10	1	3.034	92.7	75-125	3.886	1.91	20	
Iron	515	0.80	100	427.2	87.7	75-125	508.7	1.21	20	O
Manganese	8.973	0.050	1	8.23	74.3	75-125	8.883	1.01	20	SO

The following samples were analyzed in this batch:

22050239-20A	22050239-21A	22050239-22A
22050239-23A	22050239-24A	22050239-25A
22050239-25B	22050239-28B	22050239-29B
22050239-30B	22050239-31B	

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **R343979e** Instrument ID **VMS11** Method: **SW8260C**

MBLK Sample ID: **11V-BLKW1-220510-R343979e** Units: **µg/L** Analysis Date: **5/10/2022 01:38 PM**

Client ID: Run ID: **VMS11_220510A** SeqNo: **8406676** 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.

QC BATCH REPORT

Batch ID: **R343979e** Instrument ID **VMS11** 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	*19.14*	0	*20*	0	*95.7*	*75-120*	0
Surr: 4-Bromofluorobenzene	*19.69*	0	*20*	0	*98.4*	*80-110*	0
Surr: Dibromofluoromethane	*18.91*	0	*20*	0	*94.6*	*85-115*	0
Surr: Toluene-d8	*19.96*	0	*20*	0	*99.8*	*85-110*	0

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **R343979e** Instrument ID **VMS11** Method: **SW8260C**

LCS	Sample ID: **11V-LCSW1-220510-R343979e**				Units: **µg/L**			Analysis Date: **5/10/2022 12:54 PM**			
Client ID:		Run ID: **VMS11_220510A**			SeqNo: **8406675**			Prep Date:		DF: **1**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.44	1.0	20	0	97.2	75-130	0			
1,1,2,2-Tetrachloroethane	20.6	1.0	20	0	103	75-130	0			
1,1,2-Trichloroethane	21.12	1.0	20	0	106	75-125	0			
1,1,2-Trichlorotrifluoroethane	19.33	1.0	20	0	96.6	50-150	0			
1,1-Dichloroethane	19.75	1.0	20	0	98.8	68-142	0			
1,1-Dichloroethene	18.21	1.0	20	0	91	70-145	0			
1,2,4-Trichlorobenzene	19.4	1.0	20	0	97	70-135	0			
1,2-Dibromo-3-chloropropane	20.02	1.0	20	0	100	60-130	0			
1,2-Dibromoethane	22.15	1.0	20	0	111	67-155	0			
1,2-Dichlorobenzene	19.45	1.0	20	0	97.2	70-130	0			
1,2-Dichloroethane	19.61	1.0	20	0	98	78-125	0			
1,2-Dichloropropane	19.78	1.0	20	0	98.9	75-125	0			
1,3-Dichlorobenzene	19.63	1.0	20	0	98.2	75-130	0			
1,4-Dichlorobenzene	20.12	1.0	20	0	101	75-130	0			
2-Butanone	22.12	5.0	20	0	111	55-150	0			
2-Hexanone	22.05	5.0	20	0	110	60-135	0			
4-Methyl-2-pentanone	27.87	1.0	20	0	139	77-178	0			
Acetone	23.04	10	20	0	115	60-160	0			
Benzene	20.83	1.0	20	0	104	70-130	0			
Bromodichloromethane	19.25	1.0	20	0	96.2	75-125	0			
Bromoform	16.69	1.0	20	0	83.4	60-125	0			
Bromomethane	16.88	1.0	20	0	84.4	30-185	0			
Carbon disulfide	17.79	1.0	20	0	89	60-165	0			
Carbon tetrachloride	19.42	1.0	20	0	97.1	65-140	0			
Chlorobenzene	20.51	1.0	20	0	103	80-120	0			
Chloroethane	14.08	1.0	20	0	70.4	31-172	0			
Chloroform	19.4	1.0	20	0	97	66-135	0			
Chloromethane	9.47	1.0	20	0	47.4	46-148	0			
cis-1,2-Dichloroethene	20.17	1.0	20	0	101	75-134	0			
cis-1,3-Dichloropropene	18.06	1.0	20	0	90.3	70-130	0			
Cyclohexane	19	2.0	20	0	95	50-150	0			
Dibromochloromethane	17.42	1.0	20	0	87.1	60-115	0			
Dichlorodifluoromethane	5.69	1.0	20	0	28.4	10-180	0			
Ethylbenzene	20.43	1.0	20	0	102	76-123	0			
Isopropylbenzene	20.79	1.0	20	0	104	80-127	0			
Methyl tert-butyl ether	21.87	1.0	20	0	109	68-129	0			
Methylcyclohexane	19.29	1.0	20	0	96.4	50-150	0			
Methylene chloride	19.88	5.0	20	0	99.4	72-125	0			
Styrene	20.39	1.0	20	0	102	79-117	0			
Tetrachloroethene	20.77	1.0	20	0	104	68-166	0			
Toluene	21.28	1.0	20	0	106	76-125	0			
trans-1,2-Dichloroethene	19.14	1.0	20	0	95.7	80-140	0			

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

Batch ID: **R343979e** Instrument ID **VMS11** Method: **SW8260C**

trans-1,3-Dichloropropene	18.12	1.0	20	0	90.6	56-132	0
Trichloroethene	20.28	1.0	20	0	101	77-125	0
Trichlorofluoromethane	16.04	1.0	20	0	80.2	60-140	0
Vinyl chloride	13.11	1.0	20	0	65.6	50-136	0
Xylenes, Total	62.33	3.0	60	0	104	76-127	0
Surr: 1,2-Dichloroethane-d4	*19.24*	0	*20*	0	*96.2*	*75-120*	0
Surr: 4-Bromofluorobenzene	*20.25*	0	*20*	0	*101*	*80-110*	0
Surr: Dibromofluoromethane	*19.56*	0	*20*	0	*97.8*	*85-115*	0
Surr: Toluene-d8	*19.93*	0	*20*	0	*99.6*	*85-110*	0

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **R343979e** Instrument ID **VMS11** Method: **SW8260C**

MS	Sample ID: **22050613-06A MS**				Units: **µg/L**			Analysis Date: **5/10/2022 09:51 PM**		
Client ID:		Run ID: **VMS11_220510A**			SeqNo: **8406698**		Prep Date:		DF: **100**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1974	100	2000	0	98.7	75-130	0			
1,1,2,2-Tetrachloroethane	2011	100	2000	0	101	75-130	0			
1,1,2-Trichloroethane	1980	100	2000	0	99	75-125	0			
1,1,2-Trichlorotrifluoroethane	2058	100	2000	0	103	50-150	0			
1,1-Dichloroethane	1930	100	2000	0	96.5	68-142	0			
1,1-Dichloroethene	2067	100	2000	0	103	70-145	0			
1,2,4-Trichlorobenzene	1729	100	2000	0	86.4	70-135	0			
1,2-Dibromo-3-chloropropane	1803	100	2000	0	90.2	60-130	0			
1,2-Dibromoethane	2065	100	2000	0	103	67-155	0			
1,2-Dichlorobenzene	1827	100	2000	0	91.4	70-130	0			
1,2-Dichloroethane	1895	100	2000	0	94.8	78-125	0			
1,2-Dichloropropane	1938	100	2000	0	96.9	75-125	0			
1,3-Dichlorobenzene	1871	100	2000	0	93.6	75-130	0			
1,4-Dichlorobenzene	1900	100	2000	0	95	75-130	0			
2-Butanone	2305	500	2000	0	115	55-150	0			
2-Hexanone	2356	500	2000	0	118	60-135	0			
4-Methyl-2-pentanone	2884	100	2000	0	144	77-178	0			
Acetone	2520	1,000	2000	223	115	60-160	0			
Benzene	5918	100	2000	3909	100	70-130	0			
Bromodichloromethane	1739	100	2000	0	87	75-125	0			
Bromoform	1509	100	2000	0	75.4	60-125	0			
Bromomethane	1235	100	2000	0	61.8	30-185	0			
Carbon disulfide	2018	100	2000	0	101	60-165	0			
Carbon tetrachloride	1921	100	2000	0	96	65-140	0			
Chlorobenzene	1951	100	2000	0	97.6	80-120	0			
Chloroethane	1599	100	2000	0	80	31-172	0			
Chloroform	1879	100	2000	0	94	66-135	0			
Chloromethane	1657	100	2000	0	82.8	46-148	0			
cis-1,2-Dichloroethene	1954	100	2000	0	97.7	75-134	0			
cis-1,3-Dichloropropene	1645	100	2000	0	82.2	70-130	0			
Cyclohexane	2169	200	2000	76	105	50-150	0			
Dibromochloromethane	1501	100	2000	0	75	60-115	0			
Dichlorodifluoromethane	2217	100	2000	0	111	10-180	0			
Ethylbenzene	2384	100	2000	362	101	76-123	0			
Isopropylbenzene	2097	100	2000	0	105	80-127	0			
Methyl tert-butyl ether	2124	100	2000	0	106	68-129	0			
Methylcyclohexane	2073	100	2000	0	104	50-150	0			
Methylene chloride	2005	500	2000	0	100	72-125	0			
Styrene	1966	100	2000	0	98.3	79-117	0			
Tetrachloroethene	2036	100	2000	0	102	68-166	0			
Toluene	6901	100	2000	4862	102	76-125	0			
trans-1,2-Dichloroethene	2005	100	2000	0	100	80-140	0			

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

Batch ID: **R343979e** Instrument ID **VMS11** Method: **SW8260C**

trans-1,3-Dichloropropene	1581	100	2000	0	79	56-132	0
Trichloroethene	1983	100	2000	0	99.2	77-125	0
Trichlorofluoromethane	1817	100	2000	0	90.8	60-140	0
Vinyl chloride	1874	100	2000	0	93.7	50-136	0
Xylenes, Total	8341	300	6000	2191	102	76-127	0
Surr: 1,2-Dichloroethane-d4	*1953*	0	*2000*	0	*97.6*	*75-120*	0
Surr: 4-Bromofluorobenzene	*2033*	0	*2000*	0	*102*	*80-110*	0
Surr: Dibromofluoromethane	*1959*	0	*2000*	0	*98*	*85-115*	0
Surr: Toluene-d8	*2046*	0	*2000*	0	*102*	*85-110*	0

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

Client: The Mannik & Smith Group, Inc.
Work Order: 22050239
Project: R2330027

QC BATCH REPORT

Batch ID: **R343979e** Instrument ID **VMS11** Method: **SW8260C**

MSD	Sample ID: **22050613-06A MSD**				Units: **µg/L**			Analysis Date: **5/10/2022 10:14 PM**		
Client ID:		Run ID: **VMS11_220510A**			SeqNo: **8406699**		Prep Date:		DF: **100**	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	2060	100	2000	0	103	75-130	1974	4.26	30	
1,1,2,2-Tetrachloroethane	2079	100	2000	0	104	75-130	2011	3.33	30	
1,1,2-Trichloroethane	2080	100	2000	0	104	75-125	1980	4.93	30	
1,1,2-Trichlorotrifluoroethane	2189	100	2000	0	109	50-150	2058	6.17	30	
1,1-Dichloroethane	2072	100	2000	0	104	68-142	1930	7.1	30	
1,1-Dichloroethene	2171	100	2000	0	109	70-145	2067	4.91	30	
1,2,4-Trichlorobenzene	1916	100	2000	0	95.8	70-135	1729	10.3	30	
1,2-Dibromo-3-chloropropane	1999	100	2000	0	100	60-130	1803	10.3	30	
1,2-Dibromoethane	2150	100	2000	0	108	67-155	2065	4.03	30	
1,2-Dichlorobenzene	1953	100	2000	0	97.6	70-130	1827	6.67	30	
1,2-Dichloroethane	2001	100	2000	0	100	78-125	1895	5.44	30	
1,2-Dichloropropane	2033	100	2000	0	102	75-125	1938	4.78	30	
1,3-Dichlorobenzene	1994	100	2000	0	99.7	75-130	1871	6.36	30	
1,4-Dichlorobenzene	2028	100	2000	0	101	75-130	1900	6.52	30	
2-Butanone	2527	500	2000	0	126	55-150	2305	9.19	30	
2-Hexanone	2442	500	2000	0	122	60-135	2356	3.58	30	
4-Methyl-2-pentanone	2280	100	2000	0	114	77-178	2884	23.4	30	
Acetone	2677	1,000	2000	223	123	60-160	2520	6.04	30	
Benzene	6218	100	2000	3909	115	70-130	5918	4.94	30	
Bromodichloromethane	1853	100	2000	0	92.6	75-125	1739	6.35	30	
Bromoform	1594	100	2000	0	79.7	60-125	1509	5.48	30	
Bromomethane	1620	100	2000	0	81	30-185	1235	27	30	
Carbon disulfide	2090	100	2000	0	104	60-165	2018	3.51	30	
Carbon tetrachloride	2017	100	2000	0	101	65-140	1921	4.88	30	
Chlorobenzene	2031	100	2000	0	102	80-120	1951	4.02	30	
Chloroethane	1723	100	2000	0	86.2	31-172	1599	7.47	30	
Chloroform	1983	100	2000	0	99.2	66-135	1879	5.39	30	
Chloromethane	1698	100	2000	0	84.9	46-148	1657	2.44	30	
cis-1,2-Dichloroethene	2059	100	2000	0	103	75-134	1954	5.23	30	
cis-1,3-Dichloropropene	1677	100	2000	0	83.8	70-130	1645	1.93	30	
Cyclohexane	2278	200	2000	76	110	50-150	2169	4.9	30	
Dibromochloromethane	1644	100	2000	0	82.2	60-115	1501	9.09	30	
Dichlorodifluoromethane	2282	100	2000	0	114	10-180	2217	2.89	30	
Ethylbenzene	2438	100	2000	362	104	76-123	2384	2.24	30	
Isopropylbenzene	2146	100	2000	0	107	80-127	2097	2.31	30	
Methyl tert-butyl ether	2273	100	2000	0	114	68-129	2124	6.78	30	
Methylcyclohexane	2166	100	2000	0	108	50-150	2073	4.39	30	
Methylene chloride	2149	500	2000	0	107	72-125	2005	6.93	30	
Styrene	2055	100	2000	0	103	79-117	1966	4.43	30	
Tetrachloroethene	2137	100	2000	0	107	68-166	2036	4.84	30	
Toluene	7220	100	2000	4862	118	76-125	6901	4.52	30	
trans-1,2-Dichloroethene	2078	100	2000	0	104	80-140	2005	3.58	30	

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

QC BATCH REPORT

Batch ID: **R343979e** Instrument ID **VMS11** Method: **SW8260C**

trans-1,3-Dichloropropene	1698	100	2000	0	84.9	56-132	1581	7.14	30
Trichloroethene	2004	100	2000	0	100	77-125	1983	1.05	30
Trichlorofluoromethane	1902	100	2000	0	95.1	60-140	1817	4.57	30
Vinyl chloride	1971	100	2000	0	98.6	50-136	1874	5.05	30
Xylenes, Total	8569	300	6000	2191	106	76-127	8341	2.7	30
Surr: 1,2-Dichloroethane-d4	*1968*	0	*2000*	0	*98.4*	*75-120*	1953	*0.765*	*30*
Surr: 4-Bromofluorobenzene	*2030*	0	*2000*	0	*102*	*80-110*	2033	*0.148*	*30*
Surr: Dibromofluoromethane	*1980*	0	*2000*	0	*99*	*85-115*	1959	*1.07*	*30*
Surr: Toluene-d8	*2036*	0	*2000*	0	*102*	*85-110*	2046	*0.49*	*30*

The following samples were analyzed in this batch: 22050239-21C 22050239-33A

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

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	The Mannik & Smith Group, Inc.	Purchase Order	
Send Report To	Tom Peters	Company Name	The Mannik & Smith Group, Inc.
Project Name	R2330027	Invoice Attn	Accounts Payable
Address	2365 Haggerty Road South Suite 100	Project #	
City State Zip	Canton, MI 48188	Address	2365 Haggerty Road South Suite 100 Suite 100
Phone	7343973100	City State Zip	Canton, MI 48188
e-Mail Address	tpeters@mannikSmith group.com	Phone	7343973100
		e-Mail Address	

Parameter/Method Request for Analysis

A: metals (Al, Fe, Mn)
B: Dissolved metals (Al, Fe, Mn)
C: VOCs
D:
E:
F:
G:
H:
I:
J:

22050239

MANNIK&SMITH: The Mannik & Smith Group, Inc.
Project: R2330027

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	W-R2330027-042522-SSR-001	4/25/22	1205	H_2O	HNO_3	2	1	1									
2	W-R2330027-042522-ADH-002	4/25/22	1300				1	1									
3	W-R2330027-042522-SSR-003	4/25/22	1600				1	1									
4	W-R2330027-042522-ADH-004	4/25/22	1455				1	1									
5	W-R2330027-042522-ADP-005	4/25/22	1440				1	1									
6	W-R2330027-042522-SSR-006	4/25/22	1700				1	1									
7	W-R2330027-042622-SSR-007	4/26/22	1045				1	1									
8	W-R2330027-042622-ADP-008	4/26/22	1145				1	1									
9	W-R2330027-042622-SSR-009	4/26/22	1145				1	1									
10	W-R2330027-042622-ADP-010	4/26/22	1300				1	1									

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Required Turnaround Time: ___ Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquised by	Date	Time	Received by	Date	Time
	5/3/22	1pm		5/3/2022	1pm
QS	5/3/22	2230			

NOTES: IR1 4.0, 3.6°C pf32

QC Reporting Level: (check box below)

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like
- Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

Chain of Custody Form

ALS Group USA, Corp

Work Order: _____

Company Name	The Mannik & Smith Group, Inc.	Purchase Order	
Send Report To		Company Name	The Mannik & Smith Group, Inc.
Project Name		Invoice Attn	Accounts Payable
Address	2365 Haggerty Road South Suite 100	Project #	
City State Zip	Canton, MI 48188	Address	2365 Haggerty Road South Suite 100 Suite 100
Phone	7343973100	City State Zip	Canton, MI 48188
e-Mail Address		Phone	7343973100
		e-Mail Address	

Parameter/Method Request for Analysis

A: METALS (Al, Fe, Mn)
B: DISSOLVED METALS (Al, Fe, Mn)
C: VOCS
D:
E:
F:
G:
H:
I:
J:

22050239

MANNIK&SMITH: The Mannik & Smith Group, Inc.
Project: R2330027

#	Sample Description	Date	Time	Matrix	Preservative	# Bottles	A	B	C	D	E	F	G	H	I	J	Sample Notes
1	W-R2330027-042622-ADH-011	4/26/22	1255	H_2O	HNO_3	2	1	1									
2	W-R2330027-042622-SSR-012	4/26/22	1325				1	1									
3	W-R2330027-042622-ADH-013	4/26/22	1515				1	1									
4	W-R2330027-042622-ADP-014	4/26/22	1530				1	1									
5	W-R2330027-042622-SSR-015	4/26/22	1525				1	1									
6	W-R2330027-042622-SSR-016	4/26/22	1525				1	1									
7	W-R2330027-042622-ADP-017	4/26/22	1710				1	1									
8	W-R2330027-042622-SSR-018	4/26/22	1800				1	1									
9	W-R2330027-042722-SSR-019	4/27/22	1100				1	1									
10	W-R2330027-042722-SSR-020	4/27/22	1255				1	1									

Notes: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Required Turnaround Time: _____
___ Std 10 Wk days ___ 5 Wk days ___ 2 Wk days ___ 24 hr

Results Due:

Relinquised by	Date	Time	Received by	Date	Time
[signature]	5/3/22	1pm	Patricia MA	5/3/22	1:00
QS	5/3/22	2230	[signature]		

NOTES:
IR1 4.0, 3.6°C pH<2

QC Reporting Level: (check box below)

- Level II: Standard QC
- Level III: Std QC + Raw data
- Level IV: SW846 CLP-Like

Other:

ALS Group USA, Corp | 3352 128th Ave | | Holland Michigan 49424 | TEL. (616) 399-6070

ALS Group, USA

Sample Receipt Checklist

Client Name: **MANNIK&SMITH** Date/Time Received: **03-May-22 22:30**

Work Order: **22050239** Received by: **LYS**

Checklist completed by Lydia Sweet (eSignature) 04-May-22 (Date) Reviewed by: (eSignature) (Date)

Matrices: Water
Carrier name: Courier

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.0/4.0, 3.6/3.6c	IR3	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	5/4/2022 11:17:28 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: